



# 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 AUGUST 1982

Returns from 60% of reporting consumers representing 82% of total scrap consumption, indicated that consumption of iron and steel scrap on a daily average basis remained virtually the same as that in July, according to the Bureau of Mines, U.S. Department of the Interior. Compared with July data, daily average production was down 2%; net receipts were up 5%; and stocks at the end of the month were down 3%.

Exports of ferrous scrap during the month were 6% below those for July 1982. The Republic of Korea was the principal country of destination, accounting for 30% of the total exports in August 1982, followed by Japan with 22% and India with 9%.

On a daily average basis, pig iron production was down 7% and consumption was down 6% compared with that of the previous month. Stocks of pig iron at monthend were down 4% compared with those at the end of July 1982.

Comparative monthly composite prices in dollars a long ton for No. 1 heavy melting steel scrap as quoted by two sources are shown:

Month	<u>American Metal Market</u>		<u>Iron Age</u>	
	1981	1982	1981	1982
January	99.35	86.91	98.58	84.34
February	98.88	84.58	99.50	82.17
March	105.12	79.50	105.23	76.83
April	104.77	71.80	101.75	71.33
May	97.98	63.42	95.42	61.83
June	91.30	57.38	89.87	58.03
July	91.91	55.19	90.17	56.00
August	96.25	56.24	94.63	55.90
September	92.52	55.20	90.42	56.17
October	84.59		81.17	
November	78.47		75.63	
December	78.86		76.42	

Prepared in the Division of Ferrous Metals, November 5, 1982.

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

	AUGUST 1982 (PRELIMINARY) 1/				FINAL TOTAL FOR MONTH OF JUL 1982 4/	TOTAL YEAR THROUGH AUG 1982 5/
	VRS. OF PIG IRON AND PAV STEEL 8	CASTINGS 2/	MFRS. OF STEEL CASTINGS 3/	IRON FOUNDRIES AND MISCELLANEOUS USERS		
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	1,349,487	94,484	594,855	2,038,825	1,992,047	19,778,057
RECEIPTS FROM OTHER OWN COMPANY PLANTS	283,074	1,598	43,941	328,513	325,896	3,123,006
PRODUCTION RECIRCULATING SCRAP	1,694,073	44,893	237,148	1,975,314	2,018,772	19,163,215
PRODUCTION OBSOLETE SCRAP	97,840	85	3,399	101,324	100,470	827,933
CONSUMPTION	3,303,323	137,432	904,344	4,345,099	4,335,199	41,371,842
SHIPMENTS	221,245	1,619	15,520	239,385	285,417	2,474,061
STOCKS END OF MONTH	6,240,447	154,115	785,350	7,108,923	7,351,549	--
PIG IRON:						
RECEIPTS	31,330	5,073	79,602	115,005	113,281	1,543,040
PRODUCTION	3,287,942	--	--	3,287,942	3,529,577	31,619,487
CONSUMPTION	3,239,620	5,283	81,148	3,325,051	3,554,912	32,253,019
SHIPMENTS	167,348	--	155	167,503	172,729	1,569,637
STOCKS END OF MONTH	631,756	3,356	61,872	696,984	727,773	--
DIRECT-REDUCED OR PRE-REDUCED IRON:						
RECEIPTS 6/	--	--	--	27,942	2,943	262,153
PRODUCTION	--	--	--	W	W	W
CONSUMPTION	--	--	--	19,468	13,438	224,573
SHIPMENTS	--	--	--	W	W	W
STOCKS END OF MONTH	--	--	--	141,977	130,571	--

W WITHHELD TO AVOID DISCLOSING INDIVIDUAL COMPANY PROPRIETARY DATA.  
 1/ BASED ON RETURNS FROM 60% OF REPORTING CONSUMERS, REPRESENTING 82% OF SCRAP CONSUMPTION.  
 2/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.  
 3/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.  
 4/ BASED ON RETURNS FROM 63% OF REPORTING CONSUMERS, REPRESENTING 82% 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, AUGUST 1982 (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	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKES, HOME SCRAP AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM RESULTING SCRAP	RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKES, HOME SCRAP AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	STOCKS			
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	20,345	665	1,170	345	24,533	1,238	45,236				
CUT STRUCTURAL AND PLATE-----	31,662	19,824	27,868	--	113,323	3,002	83,525				
NO.1 HEAVY MELTING STEEL-----	362,555	89,981	587,228	16,525	1,008,699	99,417	1,992,191				
NO.2 HEAVY MELTING STEEL-----	83,700	8,820	59,482	4	154,335	4,427	312,294				
NO.1 AND ELECTRIC FURNACE BUNDLES---	309,459	29,770	113,555	--	459,738	16,290	882,784				
NO.2 AND ALL OTHER BUNDLES-----	80,430	4,715	2,789	--	114,063	162	209,283				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	1,395	15	54	--	1,966	--	12,468				
RAILROAD RAILS-----	4,505	--	157	--	6,565	--	3,927				
TURNINGS AND BORINGS-----	58,308	1,354	21,888	200	74,689	944	111,362				
SLAG SCRAP (FE CONTENT 70 PERCENT)---	35,664	14,509	218,825	--	238,458	16,415	239,266				
SHREDDED OR FRAGMENTIZED-----	103,903	39,281	5,170	--	149,112	--	211,439				
NO. 1 BUSHELING-----	75,014	4,609	12,386	83	79,032	2,027	119,053				
ALL OTHER CARBON STEEL SCRAP-----	102,091	16,899	485,090	605	559,151	14,908	706,568				
STAINLESS STEEL SCRAP-----	33,366	2,789	23,815	2,807	59,822	1,728	87,220				
ALLOY STEEL (EXCEPT STAINLESS)---	6,739	11,341	50,549	3,416	59,720	12,411	331,694				
INGOT MOLD AND STUOL SCRAP-----	7,022	22,174	46,064	71,102	120,345	24,218	573,347				
MACHINEY AND CUPOLA CAST IRON-----	--	--	376	2	--	73	10,698				
CAST IRON HORINGS-----	11,862	--	5,641	796	10,620	14,559	39,503				
MOTOR BLOCKS-----	--	--	--	--	--	--	--				
OTHER IRON SCRAP-----	14,672	6,455	18,638	1,900	31,686	8,526	243,156				
OTHER MIXED SCRAP-----	6,793	9,833	14,118	55	27,646	900	34,433				
TOTAL SCRAP-----	1,349,487	283,074	1,694,073	97,840	3,303,323	221,246	6,249,447				
TOTAL SCRAP THROUGH AUGUST 1982---	13,444,118	2,718,895	16,594,257	795,704	32,097,133	2,316,738	6,249,447				
PIG IRON-----	31,330	3,287,942	3,287,942	3,287,942	3,238,620	167,348	631,756				
PIG IRON THROUGH AUGUST 1982-----	716,431	31,619,487	31,619,487	31,619,487	31,410,074	1,568,261	631,756				

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.  
2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 87% 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 1982 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP				ENDING STOCKS
	FROM DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANIES PLANTS	FROM RECYCLING SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDING, STTOOLS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, CIRCULATING RE-OPERATION BUILDINGS, ETC.)	
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS	33,373	219	11,456	55	42,425	201	38,480						
CUT STRUCTURAL AND PLATE	9,322	382	505	16	8,661	--	13,162						
NO.1 HEAVY MELTING STEEL	5,709	--	2,740	--	10,920	--	10,725						
NO.2 HEAVY MELTING STEEL	7,791	--	133	--	4,096	--	3,981						
NO.1 AND ELECTRIC FURNACE RUNDLES	1,448	50	207	--	1,316	--	1,285						
NO.2 AND ALL OTHER BUNDLES	34	--	--	--	20	--	153						
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,066	180	1,043	5	6,293	--	5,036						
RAILROAD RAILS	248	--	--	--	245	--	137						
TURNINGS AND BORINGS	2,550	--	1,511	--	3,221	436	2,837						
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	16	--	--	36	2						
SHREDDER OR FRAGMENTIZED	3,640	--	--	--	3,380	--	1,856						
NO. 1 PUSHELING	1,200	--	--	--	838	--	2,182						
ALL OTHER CARBON STEEL SCRAP	14,815	420	16,513	--	33,716	101	28,889						
STAINLESS STEEL SCRAP	530	28	1,127	4	1,832	42	4,253						
ALLOY STEEL (EXCEPT STAINLESS)	2,652	96	5,518	2	8,877	499	27,538						
INGOT MOLD AND STOOL SCRAP	132	--	28	--	142	48	452						
MACHINERY AND CUPOLA CAST IRON	196	--	61	--	259	--	121						
CAST IRON RINGS	4,792	214	1,158	--	5,498	--	5,338						
MOTOR BLOCKS	21	--	--	--	22	--	3						
OTHER IRON SCRAP	3,845	--	1,874	3	5,473	256	8,140						
OTHER MIXED SCRAP	--	--	153	--	198	--	46						
TOTAL SCRAP	94,484	1,598	44,093	85	137,432	1,619	154,116						
TOTAL SCRAP THROUGH AUGUST 1982	94,413	21,813	420,036	283	1,332,693	23,174	154,116						
	RECEIPTS				PRODUCTION				CONSUMPTION				STOCKS
PIG IRON													
PIG IRON THROUGH AUGUST 1982													
1/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.													
2/ BASED ON RETURNS FROM 52% OF REPORTING CONSUMERS, REPRESENTING 40% 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 1982 (PRELIMINARY) 1/  
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION							
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANIES	FROM OTHER PLANTS	FROM OTHER SOURCES	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANIES	FROM OTHER PLANTS	FROM OTHER SOURCES	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANIES	FROM OTHER PLANTS	FROM OTHER SOURCES	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANIES	FROM OTHER PLANTS	FROM OTHER SOURCES
SCRAP:																
CARBON STEEL-																
LOW-PHOSPHORUS PLATE AND PUNCHINGS	50,885	4,735	7,574	--	61,482	804	46,227									
CUT STRUCTURAL AND PLATE	87,683	5,220	4,252	5	97,633	78	89,937									
NO.1 HEAVY MELTING STEEL	3,154	1,212	5,202	--	6,729	2,550	13,989									
NO.2 HEAVY MELTING STEEL	4,913	--	2,767	65	8,009	65	3,271									
NO.1 AND ELECTRIC FURNACE BUNDLES	4,372	2,382	2,736	25	10,958	--	3,147									
NO.2 AND ALL OTHER BUNDLES	11,783	1,638	--	--	14,175	266	20,581									
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	6,339	4,973	106	--	10,152	--	4,569									
RAILROAD RAILS	6,995	--	--	18	6,729	5	13,656									
TURNINGS AND BORINGS	18,458	5,143	736	--	25,274	1,243	48,704									
SLAG SCRAP (FE CONTENT 70 PERCENT)	2,061	--	7	--	1,914	7	7,769									
SHREDDED OR FRAGMENTIZED	55,474	--	18	--	70,047	71	44,039									
NO. 1 RUSHING	12,344	3,386	1,192	--	16,613	1,520	7,819									
ALL OTHER CARBON STEEL SCRAP	58,687	238	8,099	4	77,100	464	31,627									
STAINLESS STEEL SCRAP	79	402	146	19	589	35	2,420									
ALLOY STEEL (EXCEPT STAINLESS)	2,986	--	316	21	3,317	233	10,456									
INGOT MOLD AND STOOL SCRAP	2,782	136	6,327	100	18,488	260	29,978									
MACHINERY AND CUPOLA CAST IRON	55,582	540	26,720	1,255	42,315	363	89,381									
CAST IRON BORINGS	46,423	8,764	12,867	10	70,759	5,168	48,123									
MOTOR BLOCKS	41,731	334	38,258	--	78,392	304	47,430									
OTHER IRON SCRAP	46,644	4,718	97,314	1,622	144,694	2,815	96,583									
OTHER MIXED SCRAP	75,478	20	22,521	255	98,975	265	45,654									
TOTAL SCRAP	594,855	43,841	237,148	3,359	904,344	16,520	705,360									
TOTAL SCRAP THROUGH AUGUST 1982	5,393,536	382,298	2,148,882	31,946	7,942,016	134,153	705,360									
RECEIPTS																
PRODUCTION																
SHIPMENTS																
STOCKS																
79,602																
778,001																
1,270																
1,270																
1,270																

1/ BASED ON RETURNS FROM 57% OF REPORTING CONSUMERS, REPRESENTING 69% OF SCRAP CONSUMPTION.

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES  
IN AUGUST 1982 (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/ PIG IRON			IRON FOUNDRIES AND MISCELLANEOUS USERS			TOTAL ALL TYPES		
	SCRAP	PIG IRON	PIG IRON	SCRAP	PIG IRON	PIG IRON	SCRAP	PIG IRON	PIG IRON	SCRAP	PIG IRON	
	---	---	---	---	---	---	---	---	---	---	---	
BLAST FURNACE 3/	235,016	---	---	---	---	---	---	---	---	235,016	---	
BASIC OXYGEN PROCESS 4/	989,696	2,937,257	---	---	---	---	---	---	---	989,696	2,937,257	
OPEN-HEARTH FURNACE	270,308	259,736	185	2,377	---	---	---	---	---	272,705	259,921	
ELECTRIC FURNACE	1,741,776	6,071	5,015	126,752	5,015	16,287	256,337	16,287	2,124,865	27,373	27,373	
CUPOLA FURNACE	749	10,244	---	7,434	---	---	521,784	27,377	630,167	37,621	37,621	
OTHER (INCLUDING AIR FURNACE) 5/	65,558	4,607	83	859	83	26,223	26,223	26,150	92,650	6,840	6,840	
DIRECT CASTINGS 6/	---	20,705	---	---	---	---	---	35,334	---	---	56,039	
TOTAL	3,303,323	3,238,620	5,283	137,432	5,283	904,344	4,345,099	81,148	4,345,099	3,325,051	---	

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, JULY 1982 (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	RESULTING FROM CURRENT OPERATIONS	SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STUOLS, AND SCRAP FROM HOME SCRAP RE-OPERATIONS)	CHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	STOCKS			
SCRAP:											
CARBON STEEL-											
LOW-PHOSPHORUS PLATE AND PUNCHINGS	19,980	552	872	259	18,863	358	46,976				
CUT STRUCTURAL AND PLATE	38,049	8,186	39,089	--	113,697	6	119,633				
NO.1 HEAVY MELTING STEEL	348,347	116,982	623,561	7,935	973,580	106,626	2,101,493				
NO.2 HEAVY MELTING STEEL	73,047	7,939	53,932	91	152,349	8,559	303,742				
NO.1 AND ELECTRIC FURNACE BUNDLES	243,805	29,053	107,502	--	497,912	15,782	944,727				
NO.2 AND ALL OTHER BUNDLES	92,126	3,578	2,724	--	112,899	56	221,736				
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	1,421	28	14	--	1,953	--	13,505				
RAILROAD RAILS	4,537	--	430	--	9,722	1,141	4,410				
TURNS AND RINGS	56,581	1,020	18,782	--	86,056	14,942	105,070				
SLAG SCRAP (FE CONTENT 70 PERCENT)	37,767	15,378	207,394	--	250,884	18,961	236,752				
SHREDDED OR FRAGMENTIZED	105,705	32,117	6,656	--	162,406	--	214,073				
NO. 1 BUSHING	74,201	1,754	12,331	77	86,721	5,695	115,478				
ALL OTHER CARBON STEEL SCRAP	92,870	18,069	498,191	4,508	557,205	30,552	706,693				
STAINLESS STEEL SCRAP	32,272	2,624	24,871	1,694	60,274	2,030	87,651				
ALLOY STEEL (EXCEPT STAINLESS)	8,281	8,616	58,305	2,502	53,330	6,670	331,634				
INGOT MOLD AND STUOL SCRAP	7,601	9,864	46,572	70,677	132,758	22,213	571,595				
MACHINERY AND CUPOLA CAST IRON	--	--	926	11	15	82	10,386				
CAST IRON RINGS	10,186	28	4,206	--	8,936	11,196	39,577				
MOTOR BLOCKS	--	--	--	--	8	--	--				
OTHER IRON SCRAP	17,027	9,730	25,867	671	33,329	18,994	245,177				
OTHER MIXED SCRAP	6,798	11,093	11,834	297	29,619	1,005	30,369				
TOTAL SCRAP	1,310,641	276,861	1,743,769	88,722	3,352,516	264,868	6,450,677				
TOTAL SCRAP THROUGH JULY 1982	12,094,631	2,435,821	14,900,224	697,864	28,793,810	2,095,488	6,450,677				
PIG IRON		34,935	3,529,577		3,474,642	172,599	662,102				
PIG IRON THROUGH JULY 1982		685,101	28,331,545		28,171,454	1,400,913	662,102				

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.  
2/ BASED ON RETURNS FROM 82% OF REPORTING CONSUMERS, REPRESENTING 87% 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 1982 (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	FROM RECIRCULATING OR SOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECIRCULATING OR SOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECIRCULATING OR SOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECIRCULATING OR SOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RECIRCULATING OR SOLETE SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOKS, HOME SCRAP AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	
SCRAP:										
CARRON STEEL-										
LOW-PHOSPHORUS PLATE AND PURCHINGS	33,331	268	10,259	50	39,955	201	38,817			
CUT STRUCTURAL AND PLATE	9,283	411	701	16	9,552	--	13,624			
NO.1 HEAVY MELTING STEEL	5,788	224	2,134	--	9,581	--	11,583			
NO.2 HEAVY MELTING STEEL	1,149	--	184	--	2,239	--	4,018			
NO.1 AND ELECTRIC FURNACE BUNDLES	1,530	50	207	--	1,420	--	1,650			
NO.2 AND ALL OTHER BUNDLES	--	--	--	--	4	--	139			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	4,909	56	1,043	--	5,927	5	5,353			
RAILROAD RAILS	213	--	--	--	240	--	130			
TURNINGS AND BORINGS	2,569	--	1,516	--	3,174	452	2,532			
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	--	--	--	12	10			
SHREDDER OR FRAGMENTIFD	342	--	--	--	726	--	1,596			
NO. 1 BUSHING	1,290	--	--	--	840	--	2,757			
ALL OTHER CARRON STEEL SCRAP	14,594	291	15,712	--	29,571	4,643	28,652			
STAINLESS STEEL SCRAP	412	20	1,142	--	1,573	15	4,410			
ALLOY STEEL (EXCEPT STAINLESS)	2,301	--	5,039	--	7,642	471	27,798			
INGOT MOLD AND STUOL SCRAP	132	--	4	--	138	--	478			
MACHINERY AND CUPOLA CAST IRON	197	--	51	--	260	--	122			
CAST IRON BORINGS	4,800	--	916	--	4,828	--	5,591			
MOTOR BLOCKS	21	--	--	--	22	--	3			
OTHER IRON SCRAP	3,227	--	1,516	5	5,027	174	8,040			
OTHER MIXED SCRAP	--	--	37	--	48	--	90			
TOTAL SCRAP	84,188	1,310	40,571	71	122,767	5,975	157,393			
TOTAL SCRAP THROUGH JULY 1982	845,929	20,215	375,943	198	1,195,261	21,555	157,393			
PIG IRON										
PIG IRON THROUGH JULY 1982	5,197	--	--	--	4,958	--	3,831			
PIG IRON THROUGH JULY 1982	43,535	--	--	--	42,631	106	3,831			

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

2/ BASED ON RETURNS FROM 55% OF REPORTING CONSUMERS, REPRESENTING 43% OF SCRAP CONSUMPTION.



TABLE B. - IRON FOUNDRIES AND MISCELLANEOUS USERS - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS, AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, JULY 1982 (FINAL) 1/  
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND RECYCLED SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOL, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	SHIPMENTS	ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLING FROM CURRENT OPERATIONS	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STUOL, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	PRODUCTION	CONSUMPTION			
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS	49,409	7,019	7,359			60,129	703	46,710	
CUT STRUCTURAL AND PLATE	59,202	5,856	4,756		100	77,551	126	91,631	
NO.1 HEAVY MELTING STEEL	3,211	1,906	2,246		1,420	6,061	1,375	13,397	
NO.2 HEAVY MELTING STEEL	2,560		2,593		63	5,853	129	3,184	
NO.1 AND ELECTRIC FURNACE BUNDLES	9,242	1,358	2,265		25	14,339		4,067	
NO.2 AND ALL OTHER RUNDLES	9,841	955				11,450	265	20,694	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)									
RAILROAD RAILS	8,134	4,508	106			12,210		3,405	
TURNINGS AND BORINGS	5,630	110			12	6,348		14,272	
SLAG SCRAP (FE CONTENT 70 PERCENT)	25,126	2,372	564		278	30,279	1,482	47,941	
SHREDDED OR FRAGMENTIZED	47,362		6			1,989	6	7,548	
NO. 1 RUSHING	16,318	1,386	1,192			55,775	71	47,616	
ALL OTHER CARBON STEEL SCRAP	78,887	344	8,862			18,331	1,520	7,584	
STAINLESS STEEL SCRAP	91	411	97		7	660	17	2,389	
ALLOY STEEL (EXCEPT STAINLESS)	3,141		292		9	3,110	221	10,700	
INGOT MOLD AND STUOL SCRAP	6,158	207	3,314		220	10,320	292	39,371	
MACHINERY AND CUPOLA CAST IRON	50,672	3,472	20,004		1,248	73,811	359	92,316	
CAST IRON BORINGS	64,846	12,039	11,282			70,957	4,335	55,177	
MOTOR BLOCKS	35,958	595	30,881			53,593	304	53,760	
OTHER IRON SCRAP	35,896	4,437	119,097		7,961	171,065	2,658	93,200	
OTHER MIXED SCRAP	69,506	650	19,488		330	86,839	239	45,951	
TOTAL SCRAP	595,218	47,725	234,432		11,677	860,916	14,574	743,479	
TOTAL SCRAP THROUGH JULY 1982	4,798,671	338,457	1,911,734		28,547	7,037,672	117,633	743,479	
RECEIPTS									
73,149						75,312	130	61,840	
698,399						713,883	1,115	61,840	
1/ BASED ON RETURNS FROM 59% OF REPORTING CONSUMERS, REPRESENTING 69% OF SCRAP CONSUMPTION.									

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES  
IN JULY 1982 (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
BASIC FURNACE 3/	194,578	--	--	--	--	--	194,578	--
BASIC OXYGEN PROCESS 4/	1,113,593	3,106,823	--	--	--	--	1,113,593	3,106,823
OPEN-HEARTH FURNACE	395,496	402,189	2,377	185	--	--	307,873	309,374
ELECTRIC FURNACE	1,682,067	9,091	112,018	4,695	254,150	14,771	2,048,235	28,557
CUPOLA FURNACE	1,112	10,086	7,415	--	577,747	24,581	586,274	34,757
OTHER (INCLUDING AIR FURNACE) 5/	55,670	4,233	957	78	29,019	1,846	85,646	6,157
DIRECT CASTINGS 6/	--	35,220	--	--	--	34,014	--	69,234
TOTAL	3,352,515	3,474,642	1,22,767	4,958	860,915	75,312	4,336,199	3,554,912

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 FURNACE'S 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 542,446 short tons in August compared with 576,966 tons in July. Exports of pig iron during August totaled 985 tons and 711 tons in July. Imports of scrap totaled 44,016 short tons in August compared with 36,440 tons in July. Of the scrap imported during August, 38,829 short tons came from Canada and 5,187 tons from other sources. Imports of pig iron totaled 14,812 short tons in August and 8,681 tons in July. In addition to the foregoing imports of pig iron during August, there were 66 tons of sponge and powdered iron, valued at \$25,709 imported, practically all of which came from Canada.

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

Country	August 1982		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	18,617	\$1,490,621	238,066	\$16,386,456
Germany, Federal Rep. of-----	193	203,126	9,546	5,945,859
Greece-----	25,570	1,856,112	161,383	12,355,067
Italy-----	--	--	8,547	2,708,982
Japan-----	117,485	10,241,721	1,016,239	98,942,559
Korea, Republic of-----	160,684	10,660,030	1,051,141	81,676,163
Mexico-----	12,718	1,077,795	359,589	32,396,452
Spain-----	17,502	2,599,238	683,834	52,831,448
Taiwan-----	36,206	5,024,302	231,558	38,810,750
Thailand-----	112	21,525	20,109	2,825,913
Turkey-----	39,534	2,786,905	403,637	31,949,394
United Kingdom-----	656	168,440	4,119	1,986,840
Other countries-----	113,169	9,788,900	<u>r/</u> 580,580	<u>r/</u> 64,815,285
Total-----	542,446	45,918,715	4,768,348	443,631,168

r/ Revised.

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	August 1982		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	199,534	\$13,413,871	1,357,642	\$104,643,306
No. 2 heavy melting steel scrap-----	63,693	4,103,337	476,161	34,720,064
No. 1 bundles-----	3,754	300,748	45,355	3,486,528
No. 2 bundles-----	19,611	979,091	158,323	10,122,549
Borings, shovelings and turnings-----	16,373	788,749	400,272	21,539,160
Stainless steel-----	10,564	5,857,605	<u>r/</u> 93,026	<u>r/</u> 54,711,202
Shredded steel scrap-----	123,569	9,101,185	1,402,050	116,668,571
Iron scrap (excluding borings and shovelings)-----	40,660	3,256,196	267,171	22,221,465
All other steel scrap <u>1/</u> -----	64,688	8,117,933	568,348	75,518,323
Total-----	542,446	45,918,715	4,768,348	443,631,168
Ships, boats, and other vessels for breaking up (for scrapping)-----	1,094	144,474	33,684	2,826,592
Total-----	543,540	46,063,189	4,802,032	446,457,760

r/ Revised.

1/ Includes tinplate and terneplate.

Source: Bureau of the Census.