



# 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 JANUARY 1982

Returns from 66% of reporting consumers representing 86% of total scrap consumption, indicated that consumption of iron and steel scrap on a daily average basis was 4% above that in December 1981, according to the Bureau of Mines, U.S. Department of the Interior. Compared with December 1981 data, daily average production was down 3%; net receipts were up 2%; and stocks at the end of the month were down 5%.

Exports of ferrous scrap during the month were 9% below those for December 1981. Japan and Spain were the principal countries of destination, each accounting for 23% of the total exports in January 1982, followed by Mexico with 15%.

Compared to the previous month, on a daily average basis, pig iron production was down 2% and consumption was down 2%. Stocks of pig iron at monthend were up 3% compared with those at the end of December 1981.

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		105.23	
April	104.77		101.75	
May	97.98		95.42	
June	91.30		89.87	
July	91.91		90.17	
August	96.25		94.63	
September	92.52		90.42	
October	84.59		81.17	
November	78.47		75.63	
December	78.86		76.42	

Prepared in the Section of Ferrous Metals, April 8, 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)

	JANUARY 1982 (PRELIMINARY) 1/				TOTAL FOR MONTH OF DEC 1981 4/	TOTAL YEAR THROUGH JAN 1982 5/
	MFRS. OF PIG IRON AND RAM STEEL	MFRS. OF STEEL CASTINGS 2/	IRON FOUNDRIES AND MISCEL- LANEOUS USERS	TOTAL FOR MONTH OF JAN 1982		
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	1,840,750	131,292	632,254	2,599,296	2,609,234	2,594,296
RECEIPTS FROM OTHER OWN COMPANY PLANTS--	365,518	3,216	42,685	411,419	466,586	411,419
PRODUCTION RECIRCULATING SCRAP--	2,322,658	57,030	253,006	2,632,694	2,715,185	2,632,694
PRODUCTION OBSOLETE SCRAP--	100,060	44	2,310	102,414	101,747	102,414
CONSUMPTION--	4,779,787	185,370	953,575	5,898,732	5,655,685	5,898,732
SHIPMENTS--	287,357	1,564	24,628	303,549	414,563	303,549
STOCKS END OF MONTH--	6,872,923	180,153	767,359	7,820,345	8,260,981	--
2 PIG IRON:						
RECEIPTS--	139,212	6,008	108,282	253,502	245,093	253,502
PRODUCTION--	4,667,762	--	--	4,667,762	4,771,323	4,667,762
CONSUMPTION--	4,624,581	6,011	132,255	4,742,847	4,823,981	4,742,847
SHIPMENTS--	222,461	--	168	222,629	242,255	222,629
STOCKS END OF MONTH--	814,880	4,757	84,850	883,695	858,923	--
DIRECT-REDUCED OR PRE-REDUCED IRON:						
RECEIPTS 6/--	--	--	--	24,169	25,951	24,169
PRODUCTION--	--	--	--	40,215	39,796	40,215
CONSUMPTION--	--	--	--	71,188	84,243	--
SHIPMENTS--	--	--	--	--	--	--
STOCKS END OF MONTH--	--	--	--	--	--	--

W WITHHELD TO AVOID DISCLOSING INDIVIDUAL COMPANY PROPRIETARY DATA.

1/ BASED ON RETURNS FROM 66% OF REPORTING CONSUMERS, REPRESENTING 86% OF SCRAP CONSUMPTION.

2/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAM STEEL.

3/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAM STEEL AND CASTINGS.

4/ BASED ON RETURNS FROM 68% OF REPORTING CONSUMERS, REPRESENTING 88% 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, JANUARY 1982 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING FROM RESULTING CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RESULTING CURRENT OPERATIONS	OBsolete SCRAP (INCLUDES INGOT CHASED AND MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS	32,553	547	1,999	205	34,306	1,785	34,275		
CUT STRUCTURAL AND PLATE	40,825	5,441	38,593	--	107,941	--	74,178		
NO.1 HEAVY MELTING STEEL	514,291	179,372	961,927	4,409	1,655,569	123,372	2,279,647		
NO.2 HEAVY MELTING STEEL	137,648	8,637	68,729	326	271,647	1,565	410,705		
NO.1 AND ELECTRIC FURNACE BUNDLES	343,735	23,935	138,634	--	582,978	6,562	989,633		
NO.2 AND ALL OTHER BUNDLES	112,335	6,715	4,588	--	153,117	807	231,318		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	1,798	8	34	--	2,538	--	7,459		
RAILROAD RAILS	6,181	261	--	--	9,795	--	20,712		
TURNINGS AND BORINGS	85,095	7,646	34,689	66	135,283	6,513	129,437		
SLAG SCRAP (FE CONTENT 70 PERCENT)	72,969	11,887	212,177	--	256,269	17,789	233,963		
SHREDDERED OR FRAGMENTIZED	176,527	38,415	--	--	256,379	--	216,660		
NO. 1 BUSHING	64,312	849	5,367	--	79,769	663	107,963		
ALL OTHER CARBON STEEL SCRAP	185,410	14,467	595,100	797	709,044	53,172	659,289		
STAINLESS STEEL SCRAP	26,692	2,889	24,694	1,706	57,048	1,756	102,852		
ALLOY STEEL (EXCEPT STAINLESS)	12,426	21,934	111,575	724	140,141	6,965	320,307		
INGOT MOLD AND STOOL SCRAP	7,937	32,516	53,153	91,694	179,235	24,446	650,848		
MACHINERY AND COPOLA CAST IRON	100	--	363	55	11,978	--	46,268		
CAST IRON BORINGS	11,728	3,311	15,210	16	17,176	18,401	23,727		
MOTOR BLOCKS	267	--	--	--	1,011	--	358		
OTHER IRON SCRAP	26,538	8,820	35,368	63	60,215	23,826	259,518		
OTHER MIXED SCRAP	32,388	7,948	20,058	--	58,348	535	73,766		
TOTAL CARBON STEEL SCRAP	1,840,750	365,518	2,322,658	100,060	4,779,787	287,357	6,872,923		
TOTAL SCRAP THROUGH JANUARY 1982	1,840,750	365,518	2,322,658	100,060	4,779,787	287,357	6,872,923		
PIG IRON									
RECEIPTS	139,212		4,667,762		4,624,581	222,461	814,888		
PRODUCTION			4,667,762		4,624,581	222,461	814,888		
CONSUMPTION			4,667,762		4,624,581	222,461	814,888		
SHIPMENTS									
STOCKS									

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.  
 2/ BASED ON RETURNS FROM 83% OF REPORTING CONSUMERS, REPRESENTING 89% 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, JANUARY 1982 (PRELIMINARY) 1/  
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION		ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	RECYCLING OBSOLETE SCRAP #INCLUDES INGOT CHASED AND RESETTING MOLDS, STOOLS, HOME SCRAP FROM AND SCRAP FROM (INCLUDES RE-CIRCULATING OF SCRAP)	FROM RESETTING FROM CURRENT OPERATIONS BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP	OF HOME SCRAP	SHIPMENTS	STOCKS			
<b>SCRAP:</b>											
<b>CARBON STEEL-</b>											
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	58,687	6,343	7,689	--	71,614	836			56,434		
CUT STRUCTURAL AND PLATE-----	104,345	8,566	5,870	5	120,793	4			93,748		
NO.1 HEAVY MELTING STEEL-----	5,945	3,045	4,266	--	9,917	1,885			10,287		
NO.2 HEAVY MELTING STEEL-----	3,006	1,683	1,404	111	7,149	180			2,426		
NO.1 AND ELECTRIC FURNACE BUNDLES----	6,450	979	3,495	25	13,153	--			3,704		
NO.2 AND ALL OTHER BUNDLES-----	6,089	41	--	--	10,720	28			26,714		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,880	3,947	106	--	8,941	--			3,646		
RAILROAD RAILS-----	9,896	--	24	12	9,352	40			17,055		
TURNINGS AND BORINGS-----	35,561	4,788	803	1	39,043	1,157			51,918		
SLAG SCRAP (FE CONTENT 70 PERCENT)----	901	--	27	--	975	27			7,253		
SHREDDED OR FRAGMENTIZED-----	26,395	131	--	--	52,808	--			55,966		
NO. 1 BUSHING-----	23,327	511	1,192	--	24,764	1,520			7,242		
ALL OTHER CARBON STEEL SCRAP-----	71,945	227	7,596	4	75,569	197			39,921		
<b>STAINLESS STEEL SCRAP-----</b>											
ALLOY STEEL (EXCEPT STAINLESS)-----	590	--	1,532	--	2,568	212			2,487		
INGOT MOLD AND STOOL SCRAP-----	2,585	4	387	26	2,755	238			10,213		
MACHINERY AND CUPOLA CAST IRON-----	5,649	86	3,933	55	11,790	376			43,552		
CAST IRON BORINGS-----	60,726	1,164	33,115	58	105,318	581			89,507		
MOTOR BLOCKS-----	53,774	8,550	11,385	38	68,350	1,709			43,606		
OTHER IRON SCRAP-----	42,604	716	13,168	--	50,862	300			50,237		
OTHER MIXED SCRAP-----	52,980	1,829	136,799	1,602	188,609	5,403			104,662		
	35,880	75	20,213	373	58,525	335			46,691		
<b>TOTAL SCRAP-----</b>	<b>622,254</b>	<b>42,685</b>	<b>263,006</b>	<b>2,310</b>	<b>933,575</b>	<b>14,628</b>			<b>767,269</b>		
<b>TOTAL SCRAP THROUGH JANUARY 1982----</b>	<b>622,254</b>	<b>42,685</b>	<b>263,006</b>	<b>2,310</b>	<b>933,575</b>	<b>14,628</b>			<b>767,269</b>		
<b>PIG IRON-----</b>											
	108,282	--	--	--	112,255	168			64,050		
<b>PIG IRON THROUGH JANUARY 1982-----</b>											
	108,282	--	--	--	112,255	168			64,050		

1/ BASED ON RETURNS FROM 62% OF REPORTING CONSUMERS, REPRESENTING 75% OF SCRAP CONSUMPTION.

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES  
IN JANUARY 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	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	255,376	--	--	--	--	--	255,376	--
BASIC OXYGEN PROCESS 4/	1,485,458	4,033,665	--	--	--	--	1,485,458	4,033,665
OPEN-HEARTH FURNACE	385,606	451,496	4,140	387	--	--	389,746	451,883
ELECTRIC FURNACE	2,591,714	31,391	172,083	5,563	855,445	22,328	3,119,242	59,282
CUPOLA FURNACE	1,428	15,867	8,640	--	546,726	36,602	556,794	52,469
OTHER (INCLUDING AIR FURNACE) 5/	60,205	14,941	507	61	31,404	3,301	92,116	18,308
DIRECT CASTINGS 6/	--	77,221	--	--	--	50,024	--	127,245
TOTAL	4,779,787	4,624,581	185,370	6,011	933,575	112,255	5,898,732	4,742,847

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 STOODLS.

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, DECEMBER 1981 (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	953	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.))	377	FROM CURRENT OPERATIONS	30,269	FROM RE-OPERATIONS	2,315	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	29,313	8,859	953	1,855	377	30,269	2,315	33,101		
CUT STRUCTURAL AND PLATE	47,575	188,131	8,859	35,831	--	79,977	938	93,880		
NO.1 HEAVY MELTING STEEL	524,209	11,001	188,131	949,678	7,181	1,570,604	139,927	2,383,302		
NO.2 HEAVY MELTING STEEL	125,450	30,261	11,001	67,064	90	230,086	12,847	468,391		
NO.1 AND ELECTRIC FURNACE BUNDLES	381,155	6,501	30,261	144,054	--	563,849	15,341	1,077,747		
NO.2 AND ALL OTHER BUNDLES	121,257	1,835	6,501	7,443	--	151,512	1,475	246,283		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	1,835	8		-181	--	2,760	--	7,459		
RAILROAD RAILS	7,497	261		--	--	11,356	--	14,910		
TURNINGS AND BORINGS	93,755	8,629		36,024	95	124,809	8,425	140,927		
SLAG SCRAP (FE CONTENT 70 PERCENT)	72,569	3,624		274,533	--	318,812	24,338	222,624		
SHREDDED OR FRAGMENTIZED	151,266	49,839		--	--	222,651	--	259,410		
NO. 1 BUSHING	60,874	1,129		4,241	69	70,214	842	117,524		
ALL OTHER CARBON STEEL SCRAP	147,455	15,970		611,940	1,803	691,135	57,045	690,819		
STAINLESS STEEL SCRAP	26,444	2,688		30,435	2,265	63,213	1,675	107,792		
ALLOY STEEL (EXCEPT STAINLESS)	14,461	14,363		109,386	715	122,843	6,801	320,760		
INGOT MOLD AND STUOL SCRAP	18,422	42,583		64,491	86,204	153,712	59,728	678,766		
MACHINERY AND CUPOLA CAST IRON	68	--		153	266	14,435	--	48,513		
CAST IRON BORINGS	14,720	1,256		12,378	15	19,020	18,135	21,826		
MOTOR BLOCKS	345	--		--	--	345	--	1,061		
OTHER IRON SCRAP	31,886	3,624		45,596	23	58,485	40,323	265,574		
OTHER MIXED SCRAP	34,451	12,744		19,672	--	72,194	657	72,067		
TOTAL SCRAP	1,904,207	402,156	953	2,414,593	99,103	4,572,881	390,812	7,272,736		
TOTAL SCRAP THROUGH DECEMBER 1981	31,293,636	5,655,679		37,158,644	1,806,464	70,559,396	5,117,450	7,272,736		
	RECEIPTS	PRODUCTION	CONSUMPTION	SHIPMENTS	STOCKS					
PIG IRON	120,117	4,771,323	4,698,598	241,865	786,068					
PIG IRON THROUGH DECEMBER 1981	2,643,506	73,577,593	73,044,024	3,967,710	786,068					

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.  
2/ BASED ON RETURNS FROM 88% OF REPORTING CONSUMERS, REPRESENTING 93% 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, DECEMBER 1981 (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	FROM SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.) SCRAP)	RECIRCULATING OBSOLETE SCRAP	FROM SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.) SCRAP)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.) SCRAP)	CONSUMPTION	SHIPMENTS	STOCKS	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	43,786	190	14,217	--	55,666	201	45,216			
CUT STRUCTURAL AND PLATE	11,046	895	1,273	--	14,439	--	16,100			
NO.1 HEAVY MELTING STEEL	12,832	391	4,711	--	16,566	--	19,439			
NO.2 HEAVY MELTING STEEL	5,078	--	476	--	7,288	--	5,755			
NO.1 AND ELECTRIC FURNACE BUNDLES	2,675	100	207	--	2,697	--	1,080			
NO.2 AND ALL OTHER BUNDLES	903	--	--	--	813	--	276			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	6,632	--	1,807	--	8,019	1	5,685			
RAILROAD RAILS	259	--	--	--	225	--	89			
TURNINGS AND BORINGS	3,079	134	1,628	--	3,916	721	2,470			
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	4	--	--	12	16			
SHREDDED OR FRAGMENTIZED	4,855	--	--	--	4,413	--	2,754			
NO. 1 BUSHING	1,483	--	--	--	853	--	2,545			
ALL OTHER CARBON STEEL SCRAP	25,844	1,075	18,396	--	45,817	109	35,729			
STAINLESS STEEL SCRAP	906	58	1,671	--	2,472	40	5,216			
ALLOY STEEL (EXCEPT STAINLESS)	5,608	--	7,873	--	12,224	475	24,757			
INGOT MOLD AND STUOL SCRAP	158	--	4	--	96	6	552			
MACHINERY AND CUPOLA CAST IRON	232	--	52	--	256	--	141			
CAST IRON BORINGS	5,646	--	1,527	--	6,025	73	5,452			
MOTOR BLOCKS	25	--	--	--	20	--	69			
OTHER IRON SCRAP	3,994	--	3,032	18	6,539	78	11,184			
OTHER MIXED SCRAP	--	--	513	--	513	--	1			
TOTAL SCRAP	135,041	2,643	57,391	18	188,857	1,716	184,616			
TOTAL SCRAP THROUGH DECEMBER 1981	1,781,251	62,368	808,080	1,924	2,602,019	26,967	184,616			
	RECEIPTS	PRODUCTION	CONSUMPTION	SHIPMENTS	STOCKS					
PIG IRON	6,695	--	6,542	--	5,018					
PIG IRON THROUGH DECEMBER 1981	46,929	--	46,103	1	5,018					

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

2/ BASED ON RETURNS FROM 64% OF REPORTING CONSUMERS, REPRESENTING 63% 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, DECEMBER 1981 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS				
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM OTHER RESULTING MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM OTHER RESULTING MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM OTHER RESULTING MOLDS, STOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)		FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS		
SCRAP:																	
CARBON STEEL-																	
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	54,784	7,156	7,108	--	66,594	584	54,006	71,159	22,303	5,651	1,302	97,630	7,168	3,723	13,539	1,004	10,735
CUT STRUCTURAL AND PLATE-----	2,626	--	1,365	86	5,915	152	3,951	8,900	1,910	3,952	--	5,192	9,103	--	11,532	25	30,618
NO.1 HEAVY MELTING STEEL-----	3,564	3,072	106	--	6,496	--	3,756	11,373	--	11,373	24	18,380	36,038	4,893	44,879	1,581	48,326
NO.2 HEAVY MELTING STEEL-----	1,328	--	13	--	1,402	13	7,253	43,791	256	10,238	869	54,635	10,238	1,192	13,761	1,520	6,697
NO.1 AND ALL OTHER BUNDLES-----	58,123	1,135	9,180	4	72,092	2,030	36,002	69	--	1,527	--	1,669	2,323	94	2,471	217	2,876
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	11,373	--	24	12	9,679	24	10,105	36,038	4,893	44,879	1,581	48,326	43,791	256	10,238	869	54,635
RAILROAD RAILS-----	36,038	--	746	248	44,879	1,581	48,326	1,328	--	1,402	--	1,669	10,238	1,192	13,761	1,520	6,697
TURNINGS AND BORINGS-----	1,328	--	13	--	1,402	13	7,253	43,791	256	10,238	869	54,635	10,238	1,192	13,761	1,520	6,697
SLAG SCRAP (FE CONTENT 70 PERCENT)---	43,791	256	18	3	52,653	3	74,635	10,238	869	10,238	--	13,761	10,238	1,192	13,761	1,520	6,697
SHREDDED OR FRAGMENTIZED-----	10,238	869	1,192	--	13,761	1,520	6,697	58,123	1,135	9,180	4	72,092	69	--	1,527	--	1,669
NO. 1 BUSHING-----	58,123	1,135	9,180	4	72,092	2,030	36,002	69	--	1,527	--	1,669	2,323	94	2,471	217	2,876
ALL OTHER CARBON STEEL SCRAP-----	69	--	1,527	--	1,669	217	2,876	2,323	94	2,471	217	2,876	11,523	351	12,335	257	10,105
STAINLESS STEEL SCRAP-----	2,323	94	276	45	2,971	257	3,478	68,653	1,120	32,546	42	109,977	39,814	9,918	10,891	518	100,403
ALLOY STEEL (EXCEPT STAINLESS)---	68,653	1,120	32,546	42	109,977	518	100,403	37,506	716	10,870	--	43,644	44,117	4,295	136,750	9,293	52,785
INGOT MOLD AND STOOL SCRAP-----	37,506	716	10,870	--	43,644	300	52,785	47,786	391	14,928	309	69,756	569,986	61,587	243,201	22,035	803,629
MACHINERY AND CUPOLA CAST IRON ---	44,117	4,295	136,750	1,565	188,573	9,293	106,577	8,540,743	1,734,755	3,969,023	56,963	14,152,310	8,540,743	1,734,755	3,969,023	270,567	803,629
CAST IRON BORINGS-----	47,786	391	14,928	309	69,756	228	48,153	118,281	--	118,281	--	118,281	118,281	--	118,281	390	67,837
MOTOR BLOCKS-----	569,986	61,587	243,201	2,626	894,547	22,035	803,629	1,961,922	--	1,961,922	--	1,982,652	1,961,922	--	1,982,652	4,745	67,837
OTHER IRON SCRAP-----	8,540,743	1,734,755	3,969,023	56,963	14,152,310	270,567	803,629	118,281	--	118,281	--	118,281	118,281	--	118,281	390	67,837
OTHER MIXED SCRAP-----	118,281	--	118,281	--	118,281	390	67,837	1,961,922	--	1,961,922	--	1,982,652	1,961,922	--	1,982,652	4,745	67,837
TOTAL SCRAP-----	569,986	61,587	243,201	2,626	894,547	22,035	803,629	8,540,743	1,734,755	3,969,023	56,963	14,152,310	8,540,743	1,734,755	3,969,023	270,567	803,629
TOTAL SCRAP THROUGH DECEMBER 1981---	8,540,743	1,734,755	3,969,023	56,963	14,152,310	270,567	803,629	118,281	--	118,281	--	118,281	118,281	--	118,281	390	67,837
PIG IRON-----	118,281	--	118,281	--	118,281	390	67,837	1,961,922	--	1,961,922	--	1,982,652	1,961,922	--	1,982,652	4,745	67,837
PIG IRON THROUGH DECEMBER 1981---	1,961,922	--	1,961,922	--	1,982,652	4,745	67,837	118,281	--	118,281	--	118,281	118,281	--	118,281	390	67,837
1/ BASED ON RETURNS FROM 64% OF REPORTING CONSUMERS, REPRESENTING 65% OF SCRAP CONSUMPTION.	118,281	--	118,281	--	118,281	390	67,837	1,961,922	--	1,961,922	--	1,982,652	1,961,922	--	1,982,652	4,745	67,837

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES  
IN DECEMBER 1981 (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/	303,591	--	--	--	--	--	303,591	--
BASIC OXYGEN PROCESS 4/	1,500,694	4,101,408	--	--	--	--	1,500,694	4,101,408
OPEN-HEARTH FURNACE	433,140	461,934	2,568	166	--	--	435,708	462,100
ELECTRIC FURNACE	2,265,077	18,728	177,324	6,348	303,359	21,483	2,745,760	46,559
CUPOLA FURNACE	2,259	18,349	8,533	--	554,317	33,452	565,109	51,801
OTHER (INCLUDING AIR FURNACE) 5/	67,520	11,355	432	28	36,871	2,841	104,823	14,224
DIRECT CASTINGS 6/	--	86,824	--	--	--	61,065	--	147,889
TOTAL	4,572,281	4,698,598	188,857	6,542	894,547	118,441	5,655,685	4,823,981

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 STOOLS.

FOREIGN TRADE

Exports of iron and steel scrap totaled 462,250 short tons in January compared with 508,679 tons in December. Exports of pig iron during January totaled 4,198 tons and 975 tons in December. Imports of scrap totaled 33,117 short tons in January compared with 34,375 tons in December. Of the scrap imported during January, 28,461 short tons came from Canada and 4,656 tons from other sources. Imports of pig iron totaled 20,457 short tons in January and 63,670 tons in December. In addition to the foregoing imports of pig iron during January, there were 1,116 tons of sponge iron, valued at \$99,316 imported, all of which came from Canada.

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

Country	January 1982		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	30,323	\$2,129,442	30,323	\$2,129,442
Germany, Federal Rep. of-----	132	95,551	132	95,551
Greece-----	27,557	2,643,750	27,557	2,643,750
Italy-----	--	--	--	--
Japan-----	107,493	9,268,066	107,493	9,268,066
Korea, Republic of-----	46,485	3,376,691	46,485	3,376,691
Mexico-----	70,960	6,546,459	70,960	6,546,459
Spain-----	105,474	6,855,313	105,474	6,855,313
Taiwan-----	15,944	3,585,271	15,944	3,585,271
Thailand-----	--	--	--	--
Turkey-----	--	--	--	--
United Kingdom-----	339	83,752	339	83,752
Other countries-----	57,543	6,737,277	57,543	6,737,277
Total-----	462,250	41,321,572	462,250	41,321,572

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	January 1982		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	142,683	\$10,470,289	142,683	\$10,470,289
No. 2 heavy melting steel scrap-----	56,951	3,878,812	56,951	3,878,812
No. 1 bundles-----	3,778	263,925	3,778	263,925
No. 2 bundles-----	14,520	862,173	14,520	862,173
Borings, shovelings and turnings-----	53,096	3,099,484	53,096	3,099,484
Stainless steel-----	7,151	4,082,691	7,151	4,082,691
Shredded steel scrap-----	103,467	9,336,494	103,467	9,336,494
Iron scrap (excluding borings and shovelings)-----	41,657	3,195,391	41,657	3,195,391
All other steel scrap <sup>1</sup> /-----	38,947	6,132,313	38,947	6,132,313
Total-----	462,250	41,321,572	462,250	41,321,572
Ships, boats, and other vessels for breaking up (for scrapping)-----	4,422	457,229	4,422	457,229
Total-----	466,672	41,778,801	466,672	41,778,801

1/ Includes tinplate and terneplate.

Source: Bureau of the Census.