



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN OCTOBER 1976

Returns from 78% of reporting consumers representing 95% of total scrap consumption, indicated that consumption of iron and steel scrap in October on a daily average basis was 5% below 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 down 7% and 2%, respectively, and stocks at the end of the month were essentially unchanged.

Exports of ferrous scrap during the month were 12% below those for September 1976 and 6% below those for October 1975. Japan was the largest importer of U.S. scrap, taking 27% of the total exported in October 1976. The next largest importers were the Republic of Korea and Canada, which received 24% and 14%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of October was \$62.83 per long ton, up 7% from the price of \$58.50 at the end of October 1975.

Pig iron production and consumption on a daily average basis during the month were both down 4% from those of the previous month. Stocks of pig iron were essentially unchanged during October compared with those at the end of September 1976.

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 1976 (PRELIMINARY) 1/				
	MFRS. OF		IRON FOUNDRIES		FINAL
	PIC IRON AND	STEEL	AND MISCEL-	TOTAL FOR	TOTAL YEAR
	6 CASTINGS 2/	CASTINGS 3/	LANEOUS USERS	MONTH OF	THROUGH
				OCT 1976	SEP 1976 4/
					OCT 1976 5/
SCRAP:					
RECEIPTS FROM DEALERS AND OTHER SOURCES	1,939,391	150,654	868,871	2,958,916	3,085,028
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	493,193	9,136	304,558	806,887	831,957
PRODUCTION RECIRCULATING SCRAP-----	3,260,174	88,156	459,777	3,808,107	4,070,722
PRODUCTION OBSOLETE SCRAP-----	304,646	804	2,897	308,347	219,934
CONSUMPTION-----	5,511,263	248,559	1,589,836	7,349,658	7,508,086
SHIPMENTS-----	462,390	2,242	25,759	490,391	691,900
STOCKS END OF MONTH-----	8,586,661	245,271	1,115,496	9,947,428	9,918,474
					--
PIG IRON:					
RECEIPTS-----	347,860	3,647	220,313	571,820	576,589
PRODUCTION-----	6,956,855	--	--	6,956,855	6,997,976
CONSUMPTION-----	6,755,198	4,088	225,171	6,984,457	7,021,078
SHIPMENTS-----	553,294	9	824	556,127	563,789
STOCKS END OF MONTH-----	1,355,202	6,585	127,496	1,489,283	1,488,512
					--
DIRECT-REDUCED OR PREREDUCED IRON:					
RECEIPTS-----	--	--	--	37,156	31,722
PRODUCTION-----	--	--	--	--	--
CONSUMPTION-----	--	--	--	36,558	31,248
SHIPMENTS-----	--	--	--	--	--
STOCKS END OF MONTH-----	--	--	--	4,540	4,097
					--

1/ BASED ON RETURNS FROM 78% OF REPORTING CONSUMERS, REPRESENTING 95% 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 85% 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 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, OCTOBER 1976 (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	FROM SCRAP (INCLUDES INGOT MOLDS, STOOLS, AND SCRAP FROM CURRENT OLD EQUIPMENT, CIRCULATING SCRAP)	FROM RECYCLATING OBSOLETE SCRAP OF BOTH PURCHASED AND HOME SCRAP	RESULTING FROM OPERATIONS BUILDINGS, ETC.)	FROM CURRENT OLD EQUIPMENT, CIRCULATING SCRAP	FROM RECYCLATING OBSOLETE SCRAP OF BOTH PURCHASED AND HOME SCRAP	CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP						
SCRAP:														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	70,708	927	12,265	172	86,330	1,179	150,893							
CUT STRUCTURAL AND PLATE-----	20,573	--	14,667	464	31,506	3,554	38,144							
NO.1 HEAVY MELTING STEEL-----	440,681	261,325	1,475,501	7,309	1,874,576	249,849	2,605,866							
NO.2 HEAVY MELTING STEEL-----	183,774	3,770	102,960	164	284,609	8,201	579,484							
NO.1 AND ELECTRIC FURNACE BUNDLES----	448,496	43,295	241,308	358	755,820	903	1,558,966							
NO.2 AND ALL OTHER BUNDLES-----	132,242	5,288	28,094	--	186,039	14,559	393,727							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	9,426	--	5,308	--	13,081	--	32,299							
RAILROAD RAILS-----	6,338	--	--	--	4,956	--	6,724							
TURNINGS AND BORINGS-----	79,110	7,497	29,344	88	108,612	5,499	106,264							
SLAG SCRAP (FE CONTENT 70 PERCENT)----	100,247	22,416	223,548	--	326,648	8,120	274,801							
SHREDDED OR FRAGMENTIZED-----	112,831	46,259	614	--	181,021	3,617	189,786							
ALL OTHER CARBON STEEL SCRAP-----	207,424	10,997	793,310	114,871	1,027,940	71,125	964,572							
STAINLESS STEEL SCRAP-----	31,115	2,973	47,566	22	70,341	2,916	112,442							
ALLOY STEEL (EXCEPT STAINLESS)-----	12,585	18,148	133,812	1,432	152,620	8,973	272,606							
INGOT MOLD AND STOOL SCRAP-----	18,522	51,478	63,221	177,034	267,579	43,246	1,012,328							
MACHINERY AND CUPOLA CAST IRON -----	168	--	--	--	1,687	--	6,050							
CAST IRON BORINGS-----	10,252	5,771	24,921	917	44,648	5,396	70,782							
MOTOR BLOCKS-----	850	--	--	--	946	41	297							
OTHER IRON SCRAP-----	35,482	7,041	44,995	948	62,487	28,256	126,914							
OTHER MIXED SCRAP-----	18,567	6,008	18,740	867	29,817	9,956	83,806							
TOTAL SCRAP-----	1,939,391	493,193	3,260,174	304,646	5,511,263	462,390	8,586,661							
TOTAL SCRAP THROUGH OCTOBER 1976----	22,202,912	5,133,355	34,973,113	2,120,465	58,384,870	4,931,011	8,586,661							
PIG IRON														
RECEIPTS				PRODUCTION				CONSUMPTION				STOCKS		
347,860				6,956,855				6,755,198				1,355,202		
4,604,968				73,975,767				71,803,840				1,355,202		
PIG IRON THROUGH OCTOBER 1976-----														
1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE INGOTS.														
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 1976 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP		PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OLTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	RECYCLING SCRAP RESULTING FROM CURRENT OPERATIONS	OBSELETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	HOME SCRAP (INCLUDES RE- CIRCULATING SCRAP)	SHIPMENTS OF SCRAP		
SCRAP:									
CARBON STEEL--									
LOW-PHOSPHORUS PLATE AND PUNCHINGS----	54,571	506	16,037	224	67,196	--	--	76,365	
CUT STRUCTURAL AND PLATE-----	13,461	1,925	1,872	--	19,197	65	65	20,530	
NO.1 HEAVY MELTING STEEL-----	12,050	369	6,242	--	20,773	--	--	33,799	
NO.2 HEAVY MELTING STEEL-----	4,623	--	1,260	--	5,343	--	--	3,070	
NO.1 AND ELECTRIC FURNACE BUNDLES----	3,060	--	--	--	3,485	--	--	3,753	
NO.2 AND ALL OTHER BUNDLES-----	335	--	--	--	348	--	--	404	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,521	71	1,088	--	5,365	70	70	4,608	
RAILROAD RAILS-----	--	--	--	--	19	--	--	119	
TURNINGS AND BORINGS-----	5,134	896	2,484	--	6,743	660	660	5,608	
SLAG SCRAP (FE CONTENT 70 PERCENT)----	419	--	499	--	1,350	16	16	65	
SHREDDER OR FRAGMENTIZED-----	6,339	1,765	--	--	9,128	--	--	7,671	
ALL OTHER CARBON STEEL SCRAP-----	34,202	1,996	29,024	526	68,163	354	354	37,404	
STAINLESS STEEL SCRAP-----									
ALLOY STEEL (EXCEPT STAINLESS)-----	1,722	589	2,254	--	4,475	433	433	5,395	
INGOT MOLD AND STOOL SCRAP-----	2,978	834	13,073	--	15,259	--	--	19,021	
MACHINERY AND CUPOLA CAST IRON -----	359	--	16	--	402	--	--	804	
CAST IRON BORINGS-----	1,508	--	1,349	--	2,191	--	--	2,607	
MOTOR BLOCKS-----	3,559	--	5,297	--	8,706	159	159	3,280	
OTHER IRON SCRAP-----	57	--	--	--	75	--	--	189	
OTHER MIXED SCRAP-----	1,731	185	7,346	54	9,981	485	485	20,563	
	25	--	315	--	360	--	--	16	
TOTAL SCRAP-----									
	150,654	9,136	88,156	804	248,559	2,242	2,242	245,271	
TOTAL SCRAP THROUGH OCTOBER 1976----									
	1,512,623	88,247	822,935	12,928	2,394,397	36,082	36,082	245,271	
RECEIPTS									
PRODUCTION									
CONSUMPTION									
SHIPMENTS									
STOCKS									
PIG IRON-----									
	3,647		--		4,088		9	6,585	
PIG IRON THROUGH OCTOBER 1976-----									
	39,070		--		40,064		110	6,585	

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.
2/ BASED ON RETURNS FROM 81% OF REPORTING CONSUMERS, REPRESENTING 87% 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 1976 (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 SCRAP (INCLUDES INGOT CHASED AND MOLD, STOO, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP BUILDINGS, ETC.)	RECYCLATING OBSOLETE SCRAP	RESULTING FROM CURRENT OPERATIONS	SCRAP	OF BOTH PURCHASED AND	HOME SCRAP		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS----										
CUT STRUCTURAL AND PLATE-----	56,689	9,864	7,744	10		74,376	364		64,198	
NO.1 HEAVY MELTING STEEL-----	107,396	2,805	8,288	53		118,767	817		103,185	
NO.2 HEAVY MELTING STEEL-----	28,544	10,784	8,319	--		29,068	3,813		71,856	
NO.1 AND ELECTRIC FURNACE BUNDLES----	8,122	506	1,498	13		13,060	69		9,905	
NO.2 AND ALL OTHER BUNDLES-----	12,349	17,132	3,425	69		35,415	--		10,594	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	25,344	11,211	1,132	--		37,727	--		23,672	
RAILROAD RAILS-----	31,641	9,477	1,075	--		43,634	--		11,659	
TURNINGS AND BORINGS-----	10,228	--	24	--		10,263	27		10,383	
SLAG SCRAP (FE CONTENT 70 PERCENT)----	60,076	12,095	1,367	150		65,798	1,322		102,530	
SHREDDED OR FRAGMENTIZED-----	4,698	--	54	--		4,639	54		7,866	
ALL OTHER CARBON STEEL SCRAP-----	56,336	5,511	--	--		63,483	--		32,629	
	95,822	83,976	11,913	297		185,981	988		129,771	
STAINLESS STEEL SCRAP-----	119	--	320	2		388	31		4,032	
ALLOY STEEL (EXCEPT STAINLESS)-----	3,709	8	565	74		6,620	214		14,980	
INGOT MOLD AND STOO SCRAP-----	11,594	--	12,255	509		23,632	1,058		28,077	
MACHINERY AND CUPOLA CAST IRON -----	90,294	13,518	50,782	623		153,490	429		98,350	
CAST IRON BORINGS-----	66,733	35,668	24,035	48		120,445	4,204		90,576	
MOTOR BLOCKS-----	60,189	2,758	26,743	--		90,998	--		64,393	
OTHER IRON SCRAP-----	101,347	7,890	276,901	788		369,672	12,104		190,627	
OTHER MIXED SCRAP-----	37,641	81,355	23,337	261		142,380	265		46,213	
TOTAL SCRAP-----	868,871	304,558	459,777	2,897		1,589,836	25,759		1,115,496	
TOTAL SCRAP THROUGH OCTOBER 1976----	8,291,401	3,141,119	4,647,631	25,587		15,660,672	279,783		1,115,496	
	RECEIPTS			PRODUCTION			CONSUMPTION			STOCKS
PIG IRON-----	220,313			--			225,171			824 127,496
PIG IRON THROUGH OCTOBER 1976-----	2,381,285			--			2,400,084			7,786 127,496
1/ BASED ON RETURNS FROM 73% OF REPORTING CONSUMERS, REPRESENTING 89% OF SCRAP CONSUMPTION.										

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN OCTOBER 1976 (PRELIMINARY), BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TONS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/		MANUFACTURERS OF STEEL CASTINGS 2/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP		SCRAP		SCRAP		SCRAP	
	PIG IRON		PIG IRON		PIG IRON		PIG IRON	
BLAST FURNACE 3/	269,460	--	--	--	--	--	269,460	--
BASIC OXYGEN PROCESS 4/	2,045,291	5,243,751	--	--	--	--	2,045,291	5,243,751
OPEN-HEARTH FURNACE	1,012,255	1,251,869	8,252	598	--	--	1,020,507	1,252,467
ELECTRIC FURNACE	2,073,461	55,706	227,023	3,148	423,043	19,675	2,723,527	78,929
CUPOLA FURNACE	29,407	19,736	10,920	32	1,103,940	85,644	1,144,267	105,412
OTHER (INCLUDING AIR FURNACE) 5/	81,389	23,800	2,364	310	62,853	3,651	146,606	27,761
DIRECT CASTINGS 6/	--	160,336	--	--	--	116,201	--	276,537
TOTAL	5,511,263	6,755,198	248,559	4,088	1,589,836	225,171	7,349,658	6,984,457

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, SEPTEMBER 1976 (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 SCRAP (INCLUDES INGOT RESULTING FROM CURRENT OPERATIONS)	OBsolete SCRAP (INCLUDES MOLDS, STOKS, AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS OF SCRAP	
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	66,461	1,787	16,290	83	82,673	1,351	155,125
CUT STRUCTURAL AND PLATE---	22,334	52	13,637	507	32,555	4,077	38,144
NO.1 HEAVY MELTING STEEL---	430,787	257,512	1,560,302	8,465	1,950,040	300,994	2,518,575
NO.2 HEAVY MELTING STEEL---	249,554	4,868	106,917	174	355,152	5,537	582,254
NO.1 AND ELECTRIC FURNACE BUNDLES---	464,318	48,071	228,877	875	687,777	5,340	1,587,637
NO.2 AND ALL OTHER BUNDLES---	168,966	4,588	30,275	--	199,809	9,034	422,632
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)---	11,859	--	5,787	--	15,532	--	31,067
RAILROAD RAILS---	8,644	--	--	--	5,250	--	5,271
TURNINGS AND BORINGS---	87,305	5,675	27,080	88	110,333	9,209	104,399
SLAG SCRAP (FE CONTENT 70 PERCENT)---	82,080	25,952	263,429	--	364,577	10,444	264,993
SHREDDED OR FRAGMENTIZED---	108,207	55,167	517	--	171,543	24,536	218,819
ALL OTHER CARBON STEEL SCRAP---	204,559	10,746	914,821	30,852	1,084,676	82,858	953,000
STAINLESS STEEL SCRAP---							
ALLOY STEEL (EXCEPT STAINLESS)---	38,347	3,179	55,425	22	89,231	6,290	103,385
INGOT MOLD AND STUOL SCRAP---	12,094	21,222	133,270	2,687	149,156	11,983	268,816
MACHINERY AND CUPOLA CAST IRON ---	43,494	57,927	72,638	167,703	239,000	128,466	1,016,242
CAST IRON BORINGS---	245	--	--	--	1,217	--	7,541
MOTOR BLOCKS---	13,040	7,283	30,117	2,891	48,043	7,758	78,958
OTHER IRON SCRAP---	997	--	--	--	1,631	120	294
OTHER MIXED SCRAP---	23,712	12,288	52,053	1,632	62,321	37,524	125,942
	21,686	3,907	9,380	4	29,420	14,611	79,377
TOTAL SCRAP-----	2,058,669	520,224	3,520,815	215,983	5,679,936	660,132	8,562,471
TOTAL SCRAP THROUGH SEPTEMBER 1976----	20,263,521	4,640,162	31,712,939	1,815,819	52,873,607	4,468,621	8,562,471
RECEIPTS		PRODUCTION		CONSUMPTION		STOCKS	
340,476		6,997,976		6,788,788		563,003	
4,257,108		67,018,912		65,048,642		6,166,417	
PIG IRON-----							
PIG IRON THROUGH SEPTEMBER 1976-----							
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.							

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, SEPTEMBER 1976 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION		
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RECYCLING RESULTING FROM CURRENT OPERATIONS	RECYCLING RESULTING FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RECYCLING RESULTING FROM OLD EQUIPMENT, BUILDINGS, ETC.)	OF BOTH PURCHASED AND HOME SCRAP (INCLUDES RECYCLING)	SHIPMENTS OF SCRAP	ENDING STOCKS
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	54,082	616	15,432	254	66,033	40	73,649		
CUT STRUCTURAL AND PLATE-----	18,957	2,280	2,161	--	20,265	65	22,460		
NO.1 HEAVY MELTING STEEL-----	11,155	338	7,242	--	20,149	--	35,932		
NO.2 HEAVY MELTING STEEL-----	2,389	--	811	--	4,345	--	2,530		
NO.1 AND ELECTRIC FURNACE BUNDLES---	4,558	--	--	--	4,028	--	4,227		
NO.2 AND ALL OTHER BUNDLES-----	139	--	--	--	122	--	372		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	4,429	337	1,111	--	5,574	60	4,321		
RAILROAD RAILS-----	--	--	--	--	33	--	138		
TURNINGS AND BORINGS-----	4,961	627	2,674	--	6,696	621	4,498		
SLAG SCRAP (FE CONTENT 70 PERCENT)---	415	--	470	--	833	42	59		
SHREDDED OR FRAGMENTIZED-----	7,766	1,294	--	--	7,963	--	8,695		
ALL OTHER CARBON STEEL SCRAP-----	37,064	3,938	28,414	568	67,054	--	39,988		
STAINLESS STEEL SCRAP-----	1,498	579	2,349	--	4,433	274	5,486		
ALLOY STEEL (EXCEPT STAINLESS)---	4,868	472	13,620	--	15,393	2,620	20,645		
INGOT MOLD AND STUOL SCRAP-----	542	--	36	--	285	28	831		
MACHINERY AND CUPOLA CAST IRON ---	1,617	--	1,477	--	2,366	--	2,457		
CAST IRON BORINGS-----	3,238	380	5,598	--	9,336	45	3,291		
MOTOR BLOCKS-----	124	--	--	--	88	--	207		
OTHER IRON SCRAP-----	4,355	132	6,159	27	9,676	173	21,712		
OTHER MIXED SCRAP-----	64	--	312	--	403	--	36		
TOTAL SCRAP-----	162,221	10,993	87,866	849	245,075	3,968	251,534		
TOTAL SCRAP THROUGH SEPTEMBER 1976---	1,361,960	79,111	734,779	12,124	2,145,838	33,840	251,534		
PIG IRON-----									
RECEIPTS									
PRODUCTION									
CONSUMPTION									
SHIPMENTS									
STOCKS									
PIG IRON THROUGH SEPTEMBER 1976-----									
1/ EXCLUDES COMPANIES THAT PRODUCE BOTH STEEL INGOTS AND CASTINGS.									
2/ BASED ON RETURNS FROM 87% 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 IRON AND STEEL SCRAP, BY GRADE, SEPTEMBER 1976 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS, DEALERS, AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLATING SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	FROM RECYCLATING OBSOLETE SCRAP (INCLUDES INGOT MOLDS, STTOOLS, AND SCRAP FROM OLD EQUIPMENT, CIRCULATING STOCKS)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	64,252	8,991	8,328	17	85,709	1,541	64,221			
CUT STRUCTURAL AND PLATE	115,366	10,419	11,839	546	130,857	597	105,646			
NO.1 HEAVY MELTING STEEL	37,427	10,934	4,791	--	37,394	3,212	56,320			
NO.2 HEAVY MELTING STEEL	11,263	348	1,440	120	12,557	94	12,933			
NO.1 AND ELECTRIC FURNACE BUNDLES	13,375	17,854	3,266	65	29,510	--	15,932			
NO.2 AND ALL OTHER BUNDLES	27,692	7,187	919	--	32,591	--	23,702			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	30,575	11,916	363	--	39,941	--	13,257			
RAILROAD RAILS	8,115	--	24	--	8,672	24	10,056			
TURNINGS AND BORINGS	61,305	8,170	1,012	232	62,545	2,964	98,462			
SLAG SCRAP (FE CONTENT 70 PERCENT)	3,177	--	29	--	3,331	29	8,157			
SHREDDED OR FRAGMENTIZED	47,610	5,016	162	--	54,294	--	34,123			
ALL OTHER CARBON STEEL SCRAP	98,203	59,056	13,226	36	182,786	488	124,739			
STAINLESS STEEL SCRAP	117	--	285	3	298	31	4,048			
ALLOY STEEL (EXCEPT STAINLESS)	6,810	648	630	84	5,677	85	19,219			
INGOT MOLD AND STUOL SCRAP	13,415	--	10,559	448	23,773	1,278	30,014			
MACHINERY AND CUPOLA CAST IRON	83,432	16,232	62,567	214	160,097	1,760	95,199			
CAST IRON BORINGS	52,473	49,556	24,146	256	121,105	5,298	89,100			
MOTOR BLOCKS	55,616	4,021	26,045	--	83,273	--	66,811			
OTHER IRON SCRAP	99,252	6,435	273,660	479	388,920	9,756	185,909			
OTHER MIXED SCRAP	34,663	83,957	18,750	602	139,745	643	46,421			
TOTAL SCRAP	864,138	300,740	462,041	3,102	1,583,075	27,800	1,104,469			
TOTAL SCRAP THROUGH SEPTEMBER 1976	7,422,530	2,836,561	4,187,854	22,690	14,070,836	254,024	1,104,469			
PIG IRON										
	232,538	--	--	--	228,486	771	133,660			
PIG IRON THROUGH SEPTEMBER 1976	2,160,972	--	--	--	2,174,913	6,962	133,660			
1/ BASED ON RETURNS FROM 82% OF REPORTING CONSUMERS, REPRESENTING 95% OF SCRAP CONSUMPTION.										

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN SEPTEMBER 1976 (FINAL), BY TYPE OF CONSUMER AND TYPE OF FURNACE OR OTHER USE
(SHORT TONS)

TYPE OF FURNACE OR OTHER USE	MANUFACTURERS OF PIG IRON AND STEEL INGOTS AND CASTINGS 1/		MANUFACTURERS OF STEEL CASTINGS 2/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/-	339,113	--	--	--	--	--	339,113	--
BASIC OXYGEN PROCESS 4/-	2,099,708	5,333,337	--	--	--	--	2,099,708	5,333,337
OPEN-HEARTH FURNACE	980,981	1,245,006	--	465	--	--	987,506	1,245,471
ELECTRIC FURNACE	2,141,459	14,878	6,525	3,041	--	--	2,743,139	38,470
CUPOLA FURNACE	35,724	12,893	225,694	30	375,986	20,551	1,146,335	96,202
OTHER (INCLUDING AIR FURNACE) 5/	82,951	31,174	11,141	268	1,099,470	83,279	192,285	35,511
DIRECT CASTINGS 6/-	--	151,500	1,715	--	107,619	4,069	--	272,087
TOTAL	5,679,936	6,788,788	245,075	3,804	1,583,075	228,486	7,508,086	7,021,078

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.

FOREIGN TRADE

Exports of iron and steel scrap totaled 604,500 short tons in October compared with 687,021 tons in September. Exports of pig iron during October totaled 3,994 tons and 2,841 tons in September. Imports of scrap totaled 26,475 short tons in October compared with 28,283 tons in September. Of the scrap imported during October, 24,494 short tons came from Canada and 1,981 tons from other sources. Imports of pig iron totaled 22,127 short tons in October and 54,826 tons in September. In addition to the foregoing imports of pig iron during October, there were 2 tons of sponge iron, valued at \$1,539 imported, all of which came from Canada.

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

Country	October 1976		Year to date	
	Short tons	Value	Short tons	Value
Argentina-----	5,298	\$478,196	15,991	\$1,481,820
Canada-----	81,924	3,904,492	774,996	42,910,660
China, People's Rep. of---	--	--	51,413	4,192,618
Greece-----	23,067	1,633,914	181,081	14,462,817
Italy-----	25,095	2,580,242	683,841	57,941,719
Japan-----	165,503	11,403,654	966,126	72,605,166
Korea, Republic of-----	147,364	9,834,515	748,174	51,225,564
Mexico-----	16,345	1,314,297	502,711	39,869,643
Spain-----	43,186	2,626,739	1,695,700	123,251,004
Sweden-----	1,105	518,850	51,317	5,304,778
Taiwan-----	7,493	835,778	174,836	16,296,358
United Kingdom-----	49,923	4,873,223	464,181	41,594,363
Other countries-----	38,197	3,245,252	400,539	41,320,603
Total-----	604,500	43,249,152	6,710,906	512,457,113

^{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	October 1976		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	197,256	\$13,214,084	1,690,780	\$125,952,394
No. 2 heavy melting steel scrap-----	80,613	5,082,680	549,787	36,904,099
No. 1 bundles-----	1,670	90,067	90,765	7,451,828
No. 2 bundles-----	37,573	1,964,395	764,284	43,774,193
Borings, shovelings and turnings-----	65,547	2,825,454	539,052	27,583,722
Stainless steel-----	6,228	3,164,029	81,106	36,247,434
Shredded steel scrap-----	140,701	10,855,262	1,914,993	146,825,695
Iron scrap (excluding borings and shovelings)-	28,547	1,927,187	417,022	30,145,269
All other steel scrap ^{1/--}	46,365	4,125,994	663,117	57,572,479
Total-----	604,500	43,249,152	6,710,906	512,457,113
Ships, boats, and other vessels for breaking up (for scrapping)-----	--	--	49,668	2,278,419
Total-----	604,500	43,249,152	6,760,574	514,735,532

^{1/} Includes tinplate and terneplate.