



MINERAL INDUSTRY SURVEYS

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



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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN OCTOBER 1980

Returns from 69% of reporting consumers representing 91% of total scrap consumption, indicated that consumption of iron and steel scrap in October on a daily average basis was 13% above that in September, according to the Bureau of Mines, U.S. Department of the Interior. Compared with September data, daily average production and net receipts were up 10% and 18%, respectively, and stocks at the end of the month were up 1%.

Exports of ferrous scrap during the month were 18% above those for September 1980 and 4% above those for October 1979. Japan was the principal country of destination, accounting for 31% of the total exported in October 1980, followed by The Republic of Korea and Mexico, with 20% and 10%, respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of October was \$97.87 per long ton, up 12% from the price of \$87.30 at the end of October 1979.

Pig iron production and consumption on a daily average basis during the month were both up 18% from those of the previous month. Stocks of pig iron decreased 1% during October compared with those at the end of September 1980.

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 1980 (PRELIMINARY) 1/				FINAL	
	MFRS. OF		IRON FOUNDRIES		TOTAL FOR	TOTAL YEAR
	PIG IRON AND	STEE	AND MISCEL-	MONTH OF	SEP 1980 4/	THROUGH
	RAW STEEL	CASTINGS 2/	LANEOUS USERS	OCT 1980		OCT 1980 5/
	& CASTINGS 2/	CASTINGS 3/				
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,659,284	148,087	773,081	3,580,452	2,926,699	31,739,730
RECEIPTS FROM OTHER OWN COMPANY PLANTS-	455,222	7,065	179,819	642,106	549,783	6,255,128
PRODUCTION RECIRCULATING SCRAP-----	3,048,099	74,362	395,570	3,518,031	3,120,444	33,241,959
PRODUCTION OBSOLETE SCRAP-----	147,513	1,579	4,946	154,138	126,390	1,585,612
CONSUMPTION-----	5,779,857	237,329	1,344,556	7,361,742	6,328,265	68,958,949
SHIPMENTS-----	446,623	5,105	20,842	472,570	410,012	4,824,195
STOCKS END OF MONTH-----	6,636,796	197,577	948,993	7,783,366	7,691,142	--
PIG IRON:						
RECEIPTS-----	205,386	3,236	162,591	371,213	353,141	4,061,503
PRODUCTION-----	5,633,446	--	--	5,633,446	4,617,561	56,193,920
CONSUMPTION-----	5,509,674	3,509	165,576	5,678,759	4,670,741	56,462,935
SHIPMENTS-----	415,832	--	824	416,656	397,581	4,633,451
STOCKS END OF MONTH-----	776,647	4,639	85,451	866,737	876,661	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS-----	--	--	--	46,057	32,239	424,655
PRODUCTION-----	--	--	--	W	W	W
CONSUMPTION-----	--	--	--	50,482	37,785	457,453
SHIPMENTS-----	--	--	--	--	--	W
STOCKS END OF MONTH-----	--	--	--	16,031	17,585	--

W Withheld to avoid disclosing company proprietary data.

- 1/ BASED ON RETURNS FROM 69% OF REPORTING CONSUMERS, REPRESENTING 91% 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 72% OF REPORTING CONSUMERS, REPRESENTING 90% OF SCRAP CONSUMPTION.
- 5/ CUMULATIVE TOTALS MAY NOT AGREE WITH SUM OF MONTHLY REPORTS BECAUSE OF ADDITION OF REPORTS FROM LATE RESPONDENTS.
- 6/ Includes production.

TABLE 2. - MANUFACTURERS OF PIG IRON AND RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, OCTOBER 1980 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	FROM OTHER RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	FROM OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RE-CHASED AND HOME SCRAP (INCLUDES RE-SCRAP)	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	FROM OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	FROM RE-CHASED AND HOME SCRAP (INCLUDES RE-SCRAP)	ENDING STOCKS
SCRAP:													
CARBON STEEL-													
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	25,799	183	2,727	811	28,490	3,717	28,490	3,717	28,490	3,717	28,490	35,734	
CUT STRUCTURAL AND PLATE-----	45,229	50,331	61,772	--	143,802	10,669	143,802	10,669	143,802	10,669	143,802	64,546	
NO.1 HEAVY MELTING STEEL-----	780,843	173,326	1,175,921	5,532	1,938,518	177,956	1,938,518	177,956	1,938,518	177,956	1,938,518	2,083,155	
NO.2 HEAVY MELTING STEEL-----	203,434	15,809	116,405	1,674	319,898	14,503	319,898	14,503	319,898	14,503	319,898	455,869	
NO.1 AND ELECTRIC FURNACE BUNDLES---	508,925	33,921	222,908	5	738,348	27,387	738,348	27,387	738,348	27,387	738,348	995,774	
NO.2 AND ALL OTHER BUNDLES-----	162,426	3,771	5,780	--	187,493	386	187,493	386	187,493	386	187,493	279,409	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	3,556	75	28	--	3,986	--	3,986	--	3,986	--	3,986	9,090	
RAILROAD RAILS-----	13,494	--	--	--	12,509	--	12,509	--	12,509	--	12,509	10,790	
TURNINGS AND BORINGS-----	94,684	9,311	39,394	6,281	132,629	14,429	132,629	14,429	132,629	14,429	132,629	69,310	
SLAG SCRAP (FE CONTENT 70 PERCENT)---	92,986	4,270	240,204	--	299,280	22,230	299,280	22,230	299,280	22,230	299,280	179,629	
SHREDDED OR FRAGMENTIZED-----	254,052	58,336	2,947	--	278,262	--	278,262	--	278,262	--	278,262	237,914	
NO. 1 BUSHELING-----	86,092	1,575	5,778	83	98,507	782	98,507	782	98,507	782	98,507	89,280	
ALL OTHER CARBON STEEL SCRAP-----	178,445	14,907	842,248	14,268	902,506	64,219	902,506	64,219	902,506	64,219	902,506	747,925	
STAINLESS STEEL SCRAP-----	29,296	6,919	50,004	7	90,384	3,044	90,384	3,044	90,384	3,044	90,384	74,643	
ALLOY STEEL (EXCEPT STAINLESS)---	15,081	17,337	122,007	427	150,923	15,806	150,923	15,806	150,923	15,806	150,923	230,108	
INGOT MOLD AND STUOL SCRAP-----	32,725	47,709	73,232	116,750	240,415	63,446	240,415	63,446	240,415	63,446	240,415	557,422	
MACHINERY AND CUPOLA CAST IRON---	--	86	5	118	288	87	288	87	288	87	288	10,028	
CAST IRON BORINGS-----	24,598	1,314	6,994	11	30,391	8,447	30,391	8,447	30,391	8,447	30,391	45,383	
MOTOR BLOCKS-----	656	--	--	--	656	--	656	--	656	--	656	10	
OTHER IRON SCRAP-----	76,034	5,961	62,103	1,546	100,725	18,687	100,725	18,687	100,725	18,687	100,725	443,964	
OTHER MIXED SCRAP-----	30,929	10,081	17,642	--	61,847	828	61,847	828	61,847	828	61,847	16,813	
TOTAL SCRAP-----	2,659,284	455,222	3,048,099	147,513	5,779,857	446,623	5,779,857	446,623	5,779,857	446,623	5,779,857	6,636,796	
TOTAL SCRAP THROUGH OCTOBER 1980---	23,136,728	4,818,517	28,766,852	1,561,700	54,470,050	4,848,056	54,470,050	4,848,056	54,470,050	4,848,056	54,470,050	6,636,796	
PIG IRON-----													
	205,386		5,633,446		5,509,674	415,832	5,509,674	415,832	5,509,674	415,832	5,509,674	776,647	
PIG IRON THROUGH OCTOBER 1980-----	2,477,962		56,193,920		54,834,668	4,621,169	54,834,668	4,621,169	54,834,668	4,621,169	54,834,668	776,647	

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

2/ BASED ON RETURNS FROM 85% OF REPORTING CONSUMERS, REPRESENTING 93% 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 1980 (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 AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM RESULTING MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP)	RECYCLING OBSOLETE SCRAP OF BOTH PURCHASED AND	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM RESULTING MOLDS, STTOOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)		FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)
SCRAP:												
CARBON STEEL-												
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	45,857	3,337	14,518	1,679	64,372	178	61,807					
CUT STRUCTURAL AND PLATE-----	17,233	3,006	1,785	--	23,507	56	14,783					
NO.1 HEAVY MELTING STEEL-----	10,055	56	5,907	--	18,491	719	26,407					
NO.2 HEAVY MELTING STEEL-----	5,801	3	1,446	--	7,817	76	5,190					
NO.1 AND ELECTRIC FURNACE BUNDLES---	1,826	--	207	--	2,350	--	778					
NO.2 AND ALL OTHER BUNDLES-----	510	--	--	--	623	--	544					
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	6,476	--	1,878	--	7,748	46	5,019					
RAILROAD RAILS-----	93	--	--	--	109	--	78					
TURNINGS AND BORINGS-----	2,247	--	1,938	--	3,569	1,157	1,904					
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	20	--	--	22	22					
SHREDDED OR FRAGMENTIZED-----	3,965	--	--	--	3,977	--	2,775					
NO. 1 BUSHELING-----	1,597	--	--	--	1,639	--	2,256					
ALL OTHER CARBON STEEL SCRAP-----	36,787	568	27,115	--	69,059	1,543	30,878					
STAINLESS STEEL SCRAP-----	2,081	58	3,371	--	5,617	278	4,938					
ALLOY STEEL (EXCEPT STAINLESS)-----	4,665	--	8,772	--	14,239	70	21,863					
INGOT MOLD AND STUOL SCRAP-----	139	--	61	--	115	12	888					
MACHINERY AND CUPOLA CAST IRON-----	242	--	52	--	257	81	163					
CAST IRON BORINGS-----	4,965	--	2,274	--	6,339	62	5,451					
MOTOR BLOCKS-----	25	--	--	--	20	--	69					
OTHER IRON SCRAP-----	3,523	37	4,617	--	7,046	805	11,636					
OTHER MIXED SCRAP-----	--	--	431	--	435	--	128					
TOTAL SCRAP-----	148,087	7,065	74,362	1,679	237,329	5,105	197,577					
TOTAL SCRAP THROUGH OCTOBER 1980---	1,561,586	59,792	772,220	2,348	2,429,309	35,287	197,577					
PIG IRON-----												
	3,236	--	--	--	3,509	--	4,639					
PIG IRON THROUGH OCTOBER 1980-----	33,811	--	--	--	35,192	105	4,639					

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.
2/ BASED ON RETURNS FROM 71% OF REPORTING CONSUMERS, REPRESENTING 81% 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 1980 (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	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP	RE- SHIPMENTS OF SCRAP	ENDING STOCKS	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CONSUMPTION	SHIPMENTS	ENDING STOCKS
SCRAP:												
CARBON STEEL-												
LOW-PHOSPHORUS PLATE AND PUNCHINGS	62,989	5,456	6,201	19	74,055	1,191	33,433	19	74,055	1,191	33,433	
CUT STRUCTURAL AND PLATE	127,637	827	12,618	3,438	141,659	110	99,204	3,438	141,659	110	99,204	
NO.1 HEAVY MELTING STEEL	9,247	2,961	6,111	--	16,710	2,954	60,050	--	16,710	2,954	60,050	
NO.2 HEAVY MELTING STEEL	8,892	286	2,088	64	10,896	128	3,637	64	10,896	128	3,637	
NO.1 AND ELECTRIC FURNACE BUNDLES	12,348	5,752	4,542	41	23,664	--	7,427	41	23,664	--	7,427	
NO.2 AND ALL OTHER BUNDLES	31,714	--	--	--	34,278	--	20,950	--	34,278	--	20,950	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	10,191	8,907	106	--	16,139	--	7,764	--	16,139	--	7,764	
RAILROAD RAILS	9,473	--	24	--	10,198	24	10,468	--	10,198	24	10,468	
TURNINGS AND BORINGS	30,258	4,875	1,364	1	39,931	1,462	101,267	1	39,931	1,462	101,267	
SLAG SCRAP (FE CONTENT 70 PERCENT)	2,999	--	32	--	3,342	--	7,455	--	3,342	--	7,455	
SHREDDED OR FRAGMENTIZED	66,114	--	--	--	74,382	--	59,094	--	74,382	--	59,094	
NO. 1 BUSHELING	21,192	1,926	1,192	--	23,459	1,520	7,331	--	23,459	1,520	7,331	
ALL OTHER CARBON STEEL SCRAP	70,703	67,969	11,242	4	148,212	302	56,448	4	148,212	302	56,448	
STAINLESS STEEL SCRAP	42	--	1,425	--	1,474	54	1,551	--	1,474	54	1,551	
ALLOY STEEL (EXCEPT STAINLESS)	1,257	4	459	123	1,621	314	10,005	123	1,621	314	10,005	
INGOT MOLD AND STOOL SCRAP	9,917	93	6,904	172	17,906	333	62,570	172	17,906	333	62,570	
MACHINERY AND CUPOLA CAST IRON	84,467	1,688	45,825	79	131,015	648	109,223	79	131,015	648	109,223	
CAST IRON BORINGS	71,834	40,851	22,796	61	127,806	4,129	58,698	61	127,806	4,129	58,698	
MOTOR BLOCKS	50,268	799	23,736	--	72,385	459	45,685	--	72,385	459	45,685	
OTHER IRON SCRAP	60,972	4,479	213,044	581	271,174	6,921	136,085	581	271,174	6,921	136,085	
OTHER MIXED SCRAP	30,567	32,946	35,861	363	104,250	293	50,644	363	104,250	293	50,644	
TOTAL SCRAP	773,081	179,819	395,570	4,946	1,344,556	20,842	948,993	4,946	1,344,556	20,842	948,993	
TOTAL SCRAP THROUGH OCTOBER 1980	7,041,416	1,376,819	3,702,887	21,564	12,005,950	240,852	948,993	21,564	12,005,950	240,852	948,993	
PIG IRON	162,591	--	--	--	165,576	824	85,451	--	165,576	824	85,451	
PIG IRON THROUGH OCTOBER 1980	1,549,730	--	--	--	1,593,075	12,177	85,451	--	1,593,075	12,177	85,451	

1/ BASED ON RETURNS FROM 64% OF REPORTING CONSUMERS, REPRESENTING 82% OF SCRAP CONSUMPTION.

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN OCTOBER 1980 (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/ SCRAP			IRON FOUNDRIES AND MISCELLANEOUS USERS			TOTAL ALL TYPES		
	SCRAP	PIG IRON	SCRAP	SCRAP	PIG IRON	SCRAP	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	257,294	--	--	--	--	--	--	--	--	--	257,294	--
BASIC OXYGEN PROCESS 4/	1,874,137	4,681,894	--	--	--	--	--	--	--	--	1,874,137	4,681,894
OPEN-HEARTH FURNACE	579,623	655,814	2,687	255	--	--	--	--	--	--	582,310	656,069
ELECTRIC FURNACE	2,985,171	46,092	225,122	3,128	26,710	411,614	49,830	26,710	904,020	2,621,907	75,930	75,930
CUPOLA FURNACE	10,195	7,141	8,932	60	49,830	904,020	2,364	49,830	28,922	923,147	57,031	57,031
OTHER (INCLUDING AIR FURNACE) 5/	73,437	12,124	588	66	86,672	28,922	--	86,672	--	102,947	14,554	14,554
DIRECT CASTINGS 6/	--	106,609	--	--	--	--	--	--	--	--	--	193,281
TOTAL	5,779,857	5,509,674	237,329	3,509	1,344,556	1,344,556	165,576	165,576	7,361,742	5,678,759	7,361,742	5,678,759

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.

TABLE 6. -- MANUFACTURERS OF PIG IRON AND RAW STEEL AND CASTINGS 1/ - RECEIPTS, PRODUCTION, CONSUMPTION, SHIPMENTS AND STOCKS OF PIG IRON AND IRON AND STEEL SCRAP, BY GRADE, SEPTEMBER 1980 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS	FROM OTHER OWN COMPANIES PLANTS
CARBON STEEL--													
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	25,535	91	3,195	215	29,109	2,945	36,629						
CUT STRUCTURAL AND PLATE-----	31,810	729	67,143	--	113,675	8,651	59,386						
NO.1 HEAVY MELTING STEEL-----	607,251	160,371	952,527	3,750	1,584,464	147,662	1,992,138						
NO.2 HEAVY MELTING STEEL-----	187,108	13,475	97,050	238	258,223	16,332	451,187						
NO.1 AND ELECTRIC FURNACE BUNDLES---	371,187	28,490	199,204	--	587,196	14,200	1,004,938						
NO.2 AND ALL OTHER BUNDLES-----	144,989	5,011	3,041	--	156,430	118	279,803						
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	2,794	18	111	--	3,130	--	10,272						
RAILROAD RAILS-----	6,450	--	--	71	8,708	4,538	9,697						
TURNINGS AND BORINGS-----	85,788	12,081	38,036	47	129,597	9,998	64,360						
SLAG SCRAP (FE CONTENT 70 PERCENT)---	78,746	3,288	225,650	--	278,068	19,726	173,709						
SHREDDED OR FRAGMENTIZED-----	189,374	50,456	6,052	--	238,335	--	214,355						
NO. 1 BUSHELING-----	78,418	1,019	5,988	48	84,354	730	89,994						
ALL OTHER CARBON STEEL SCRAP-----	152,456	36,121	793,121	607	861,058	53,996	738,571						
STAINLESS STEEL SCRAP-----	28,603	2,432	49,117	6	80,558	2,983	81,982						
ALLOY STEEL (EXCEPT STAINLESS)---	13,074	16,333	110,754	719	122,855	12,587	238,668						
INGOT MOLD AND STOOL SCRAP-----	13,857	59,002	54,661	118,765	215,651	72,228	588,372						
MACHINERY AND CUPOLA CAST IRON---	381	88	517	108	698	--	10,194						
CAST IRON BORINGS-----	17,871	--	5,559	32	27,033	8,824	45,252						
MOTOR BLOCKS-----	1,778	--	--	--	1,778	--	10						
OTHER IRON SCRAP-----	42,484	3,967	54,051	130	76,216	9,853	421,360						
OTHER MIXED SCRAP-----	28,888	10,872	20,473	--	61,744	2,840	16,243						
TOTAL SCRAP-----	2,108,932	403,934	2,686,250	124,736	4,918,880	388,211	6,527,120						
TOTAL SCRAP THROUGH SEPTEMBER 1980---	20,477,444	4,363,295	25,718,753	1,414,187	48,690,193	4,101,433	6,527,120						
PIG IRON-----	201,872	4,617,561	4,617,561	4,516,674	396,659	784,382							
PIG IRON THROUGH SEPTEMBER 1980-----	2,272,576	50,560,474	50,560,474	49,324,994	4,205,337	784,382							

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

2/ BASED ON RETURNS FROM 89% 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, SEPTEMBER 1980 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION			ENDING STOCKS
	FROM BROKERS AND DEALERS OTHER OUTSIDE SOURCES	FROM OTHER COMPANY PLANTS	FROM OTHER OWN	RECIRCULATING SCRAP (INCLUDES INGOT CHASED AND RESULTING FROM CURRENT OPERATIONS BUILDINGS, ETC.)	OBsolete SCRAP (INCLUDES MOLD, STools, HOME SCRAP AND SCRAP FROM (INCLUDES RE- SHIPMENTS OF SCRAP CIRCULATING SCRAP))	OF BOTH PURCHASED AND HOME SCRAP	SHIPMENTS	STOCKS		
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS---	44,117	350	1,134	15,749	--	64,709	178	60,074		
CUT STRUCTURAL AND PLATE-----	14,938	--	859	1,590	--	21,882	56	15,011		
NO.1 HEAVY MELTING STEEL-----	13,655	--	--	4,912	--	20,062	191	29,117		
NO.2 HEAVY MELTING STEEL-----	6,781	--	--	1,780	--	7,803	27	5,833		
NO.1 AND ELECTRIC FURNACE BUNDLES---	1,201	--	--	207	--	1,764	--	1,173		
NO.2 AND ALL OTHER BUNDLES-----	569	--	--	--	--	580	--	669		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)-----	5,512	--	--	1,653	--	7,266	54	4,708		
RAILROAD RAILS-----	73	--	--	--	--	57	--	94		
TURINGS AND BORINGS-----	2,157	405	--	1,646	--	3,539	1,331	2,475		
SLAG SCRAP (FE CONTENT 70 PERCENT)---	--	--	--	12	--	--	8	24		
SHREDDER OR FRAGMENTIZED-----	4,347	--	--	--	--	4,222	--	2,787		
NO. 1 BUSHING-----	1,216	--	--	--	--	1,387	--	1,406		
ALL OTHER CARBON STEEL SCRAP-----	33,596	398	--	25,032	--	61,977	2	35,836		
STAINLESS STEEL SCRAP-----	1,832	34	--	3,143	--	4,891	322	5,273		
ALLOY STEEL (EXCEPT STAINLESS)---	5,968	--	--	8,507	--	13,518	18	22,417		
INGOT MOLD AND STUOL SCRAP-----	189	--	--	94	--	146	33	833		
MACHINERY AND CUPOLA CAST IRON---	285	92	--	361	--	806	--	249		
CAST IRON BORINGS-----	5,389	10	--	1,967	--	6,133	94	5,856		
MOTOR BLOCKS-----	25	--	--	--	--	20	--	69		
OTHER IRON SCRAP-----	2,922	52	--	5,118	33	7,455	154	12,139		
OTHER MIXED SCRAP-----	--	--	--	348	--	359	--	132		
TOTAL SCRAP-----	144,772	3,334	52,727	72,119	33	228,576	2,468	206,175		
TOTAL SCRAP THROUGH SEPTEMBER 1980---	1,413,499	52,727	697,858	669	669	2,191,980	30,182	206,175		
PIG IRON-----	3,343	--	--	--	--	2,972	--	4,955		
PIG IRON THROUGH SEPTEMBER 1980-----	30,575	--	--	--	--	31,683	105	4,955		

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.
2/ BASED ON RETURNS FROM 76% OF REPORTING CONSUMERS, REPRESENTING 84% OF SCRAP CONSUMPTION.

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN SEPTEMBER 1980 (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/ MISCELLANEOUS USERS			TOTAL ALL TYPES		
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP
BLAST FURNACE 3/	229,337	--	--	--	--	--	229,337	--	--
BASIC OXYGEN PROCESS 4/	1,493,990	3,808,053	--	--	--	--	1,493,990	3,808,053	--
OPEN-HEARTH FURNACE	505,110	565,959	5,054	278	--	--	510,164	566,237	--
ELECTRIC FURNACE	2,621,741	44,401	214,612	2,606	387,852	23,138	3,224,205	70,145	--
CUPOLA FURNACE	5,874	8,937	8,464	23	771,274	48,244	785,612	57,204	--
OTHER (INCLUDING AIR FURNACE) 5/	62,828	14,241	446	65	21,683	2,958	84,957	17,264	--
DIRECT CASTINGS 6/	--	75,083	--	--	--	76,755	--	151,838	--
TOTAL	4,918,880	4,516,674	228,576	2,972	1,180,809	151,095	6,328,265	4,670,741	--

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

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

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

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

5/ INCLUDES VACUUM MELTING FURNACES AND MISCELLANEOUS USES.

6/ INCLUDES INGOT MOLDS AND STOOLES.

FOREIGN TRADE

Exports of iron and steel scrap totaled 966,706 short tons in October compared with 822,231 tons in September. Exports of pig iron during October totaled 2,395 tons and 869 tons in September. Imports of scrap totaled 40,085 short tons in October compared with 54,165 tons in September. Of the scrap imported during October 36,783 short tons came from Canada and 3,302 tons from other sources. Imports of pig iron totaled 32,169 short tons in October and 11,509 tons in September. In addition to the foregoing imports of pig iron during October, there were 306 tons of sponge and powdered iron, valued at \$80,932 imported, of which 305 tons came from Canada, and 1 ton from the United Kingdom.

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

Country	October 1980		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	66,576	\$ 4,739,861	658,265	\$48,328,050
Germany, Federal Rep. of---	965	371,371	94,045	8,127,736
Greece-----	25,385	2,538,513	524,966	55,610,855
Italy-----	21,729	1,947,422	869,303	99,858,998
Japan-----	302,581	31,233,722	2,528,188	275,115,275
Korea, Republic of-----	189,670	20,666,700	1,424,814	161,394,255
Mexico-----	99,086	14,766,247	956,304	116,915,028
Spain-----	94,653	10,070,650	1,093,713	109,670,093
Taiwan-----	77,029	8,821,758	899,099	111,750,461
Thailand-----	2,102	303,851	53,110	9,230,113
Turkey-----	31,793	3,192,069	233,840	23,552,752
United Kingdom-----	374	35,290	4,592	728,028
Other countries-----	54,763	6,815,377	540,024	70,928,642
Total-----	966,706	105,502,831	9,880,263	1,091,210,286

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

Source: Bureau of the Census.

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

Grade of scrap	October 1980		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	237,201	\$23,632,657	2,571,779	\$263,441,206
No. 2 heavy melting steel scrap-----	104,439	9,728,095	968,005	93,364,550
No. 1 bundles-----	9,090	925,672	106,012	10,229,938
No. 2 bundles-----	28,715	2,334,129	287,841	23,031,077
Borings, shovelings and turnings-----	98,735	5,780,441	699,369	46,325,708
Stainless steel-----	18,364	8,434,556	113,312	72,297,599
Shredded steel scrap-----	238,312	23,632,572	2,992,544	314,014,312
Iron scrap (excluding borings and shovelings)-----	62,869	5,620,801	606,031	58,589,599
All other steel scrap <u>1/</u> -----	168,981	25,413,908	1,535,370	209,916,297
Total-----	966,706	105,502,831	9,880,263	1,091,210,286
Ships, boats, and other vessels for breaking up (for scrapping)-----	22,088	870,535	167,697	18,180,672
Total-----	988,794	106,373,366	10,047,960	1,109,390,958

1/ Includes tinplate and terneplate.

Source: Bureau of the Census.