



MINERAL INDUSTRY SURVEYS

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



Cecil D. Andrus, Secretary

Lindsay D. Norman, Acting Director

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

Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN FEBRUARY 1980

Returns from 68% of reporting consumers representing 92% of total scrap consumption, indicated that consumption of iron and steel scrap in February on a daily average basis was 4% above that in January, according to the Bureau of Mines, U.S. Department of the Interior. Compared with January data, daily average production and net receipts were up 4% and 6% respectively, and stocks at the end of the month were down 4%.

Exports of ferrous scrap during the month were 13% below those for January, 1980 and 13% below those for February, 1979. Japan was the principal country of destination, accounting for 22% of the total exported in February 1980, followed by Italy and Spain, with 19% and 13% respectively.

The Iron Age composite price for No. 1 heavy melting steel scrap (Chicago, Pittsburgh, and Philadelphia) at the end of February was \$104.50 per ton, down 9% from the price of \$114.83 at the end of February 1979.

Pig iron production and consumption on a daily average basis during the month were both up 3% from those of the previous month. Stocks of pig iron were down 3% during February compared with those at the end of January 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)

	FEBRUARY 1980 (PRELIMINARY) 1/				FINAL TOTAL FOR MONTH OF JAN 1980 4/	TOTAL YEAR THROUGH FEB 1980 5/
	MFRS. OF PIG IRON AND RAW STEEL & CASTINGS 2/	MFRS. OF STEEL CASTINGS 3/	IRON FOUNDRIES AND MISCELLANEOUS USERS	TOTAL FOR MONTH OF FEB 1980		
SCRAP:						
RECEIPTS FROM DEALERS AND OTHER SOURCES	2,493,051	163,238	781,041	3,437,330	3,474,485	6,911,815
RECEIPTS FROM OTHER OWN COMPANY PLANTS	563,440	7,614	161,984	733,038	737,775	1,470,813
PRODUCTION RECIRCULATING SCRAP	3,150,844	85,751	399,963	3,636,558	3,822,737	7,459,295
PRODUCTION OBSOLETE SCRAP	236,306	--	2,801	239,107	175,633	414,740
CONSUMPTION	6,198,831	272,772	1,299,041	7,770,644	7,967,507	15,738,151
SHIPMENTS	553,774	3,309	25,288	582,371	578,958	1,161,329
STOCKS END OF MONTH	6,835,425	238,829	1,020,426	8,094,680	8,397,782	--
PIG IRON:						
RECEIPTS	270,959	3,950	178,177	453,086	454,497	907,583
PRODUCTION	6,370,403	--	--	6,370,403	6,592,265	12,962,668
CONSUMPTION	6,213,093	4,426	183,884	6,401,403	6,638,202	13,039,605
SHIPMENTS	523,796	22	514	524,332	527,400	1,051,732
STOCKS END OF MONTH	702,269	5,289	106,509	814,067	840,753	--
DIRECT-REDUCED OR PREREDUCED IRON:						
RECEIPTS 6/	--	--	--	45,745	36,357	82,102
PRODUCTION	--	--	--	W	W	W
CONSUMPTION	--	--	--	45,357	39,745	85,102
SHIPMENTS	--	--	--	--	W	W
STOCKS END OF MONTH	--	--	--	41,290	40,624	--

W WITHHELD TO AVOID DISCLOSING COMPANY PROPRIETARY DATA.

1/ BASED ON RETURNS FROM 6.8% OF REPORTING CONSUMERS, REPRESENTING 92% 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 7.8% OF REPORTING CONSUMERS, REPRESENTING 95% 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, FEBRUARY 1980 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND HOME SCRAP			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND RESULTING MOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING BUILDINGS, ETC.) SCRAP)	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	35,641	1,237	3,666	326	35,690	3,295	47,524			
CUT STRUCTURAL AND PLATE	26,728	23,551	74,701	--	136,426	16,259	36,175			
NO.1 HEAVY MELTING STEEL	630,422	257,562	1,246,408	13,941	1,998,167	257,877	2,034,852			
NO.2 HEAVY MELTING STEEL	180,322	13,753	113,895	828	325,438	7,874	413,542			
NO.1 AND ELECTRIC FURNACE BUNDLES	536,334	33,519	244,496	265	775,873	9,082	1,159,810			
NO.2 AND ALL OTHER BUNDLES	161,978	3,245	3,100	--	191,891	185	321,715			
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	3,941	7	924	--	5,473	--	5,997			
RAILROAD RAILS	7,637	71	3	--	4,843	--	5,731			
TURNS AND BORINGS	104,448	9,176	32,012	85	146,009	8,580	101,254			
SLAG SCRAP (FE CONTENT 70 PERCENT)	116,925	644	820,540	1,036	442,858	9,293	154,765			
SHREDDER OR FRAGMENTIZED	213,929	42,572	3,635	--	290,827	--	198,609			
NO. 1 BUSHELING	101,039	1,321	7,461	19	112,179	615	96,077			
ALL OTHER CARBON STEEL SCRAP	212,087	88,944	764,137	73,823	991,391	78,645	753,321			
STAINLESS STEEL SCRAP-										
ALLOY STEEL (EXCEPT STAINLESS)	33,019	3,066	56,886	112	93,707	3,483	84,086			
INGOT MOLD AND STUOL SCRAP	17,584	20,993	124,294	995	156,188	8,268	255,468			
MACHINERY AND CUPOLA CAST IRON	27,403	86,981	82,648	140,411	311,034	95,232	654,665			
CAST IRON BORINGS	165	157	--	--	81	--	6,100			
MOTOR BLOCKS	20,906	353	7,014	4,984	44,978	19,349	89,641			
OTHER IRON SCRAP	309	--	--	--	309	--	10			
OTHER MIXED SCRAP	27,524	18,367	51,857	181	83,748	27,572	341,818			
TOTAL SCRAP	34,710	7,921	13,167	--	52,221	8,165	74,265			
TOTAL SCRAP THROUGH FEBRUARY 1980	2,493,051	563,440	3,150,844	236,306	6,198,831	553,774	6,835,425			
RECEIPTS	5,023,446	1,128,343	6,476,395	410,079	12,549,216	1,101,370	6,835,425			
PRODUCTION	270,959	6,370,403	6,213,093	523,796	702,269					
CONSUMPTION	538,388	12,962,668	1,049,618	702,269						
SHIPMENTS										

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
2/ BASED ON RETURNS FROM 88% OF REPORTING CONSUMERS, REPRESENTING 96% 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, FEBRUARY 1980 (PRELIMINARY) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PURCHASED AND RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND HOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	SHIPMENTS	ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	OUTSIDE SOURCES	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	FROM OBSOLETE SCRAP (INCLUDES INGOT CHASED AND HOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND HOLDS, STOOLES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)			
SCRAP:									
CARBON STEEL-									
LOW-PHOSPHORUS PLATE AND PUNCHINGS	54,325	245	19,132			78,793	182	71,438	
CUT STRUCTURAL AND PLATE	18,456	1,968	2,057			25,580	86	25,425	
NO.1 HEAVY MELTING STEEL	11,679	18	8,233			23,927	851	21,076	
NO.2 HEAVY MELTING STEEL	5,750	--	1,626			9,184	--	13,003	
NO.1 AND ELECTRIC FURNACE BUNDLES	2,272	--	207			2,840	--	3,241	
NO.2 AND ALL OTHER BUNDLES	727	--	--			456	--	1,493	
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,474	--	1,388			6,631	68	5,480	
RAILROAD RAILS	65	--	--			14	--	74	
TURNINGS AND BORINGS	3,961	376	2,083			6,316	811	3,478	
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	6			--	8	18	
SHREDDED OR FRAGMENTIZED	2,669	1,108	--			4,477	--	1,418	
NO. 1 BUSHING	1,969	925	--			2,498	--	4,638	
ALL OTHER CARBON STEEL SCRAP	40,860	2,105	28,596			73,682	--	37,764	
STAINLESS STEEL SCRAP	1,812	66	2,252			3,974	274	4,919	
ALLOY STEEL (EXCEPT STAINLESS)	4,702	284	9,252			16,081	199	25,488	
INGOT MOLD AND STUOL SCRAP	146	--	54			388	5	662	
MACHINERY AND CUPOLA CAST IRON	200	--	583			688	68	1,626	
CAST IRON BORINGS	5,618	355	2,343			7,194	201	6,072	
MOTOR BLOCKS	25	--	--			20	--	69	
OTHER IRON SCRAP	2,428	164	7,467			9,554	556	11,424	
OTHER MIXED SCRAP	--	--	472			475	--	23	
TOTAL SCRAP	163,238	7,614	85,751			272,772	3,309	238,829	
TOTAL SCRAP THROUGH FEBRUARY 1980	344,882	14,122	170,469	4		541,129	6,930	238,829	
PIG IRON	3,950	--	--			4,426	22	5,289	
PIG IRON THROUGH FEBRUARY 1980	8,047	--	--			8,521	22	5,289	

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

2/ BASED ON RETURNS FROM 70% 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, FEBRUARY 1980 (PRELIMINARY) 1/
(SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM OTHER OWN COMPANY PLANTS	FROM SCRAP RESULTING FROM CURRENT OPERATIONS	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT AND SCRAP FROM OLD EQUIPMENT, BUILDINGS, ETC.)	CHASED AND HOME SCRAP (INCLUDES RE-CIRCULATING SCRAP)	SHIPMENTS OF SCRAP	
SCRAP:							
CARBON STEEL-							
LOW-PHOSPHORUS PLATE AND PUNCHINGS	67,060	5,908	6,396	27	79,151	1,290	40,273
CUT STRUCTURAL AND PLATE	118,620	8,325	17,657	--	143,520	387	98,797
NO.1 HEAVY MELTING STEEL	24,593	3,885	5,157	--	26,334	3,044	61,066
NO.2 HEAVY MELTING STEEL	3,939	3,422	2,832	27	9,691	95	2,708
NO.1 AND ELECTRIC FURNACE BUNDLES	8,557	9,831	4,494	15	21,826	--	16,412
NO.2 AND ALL OTHER BUNDLES	32,334	--	--	--	29,685	--	36,265
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	10,652	3,813	106	--	14,889	--	6,985
RAILROAD RAILS	12,062	--	24	--	12,412	24	11,844
TURNINGS AND BORINGS	39,984	12,257	1,796	4	55,901	1,383	92,814
SLAG SCRAP (FE CONTENT 70 PERCENT)	3,521	--	51	--	3,383	296	8,271
SHREDDED OR FRAGMENTIZED	81,743	262	--	--	75,191	42	56,525
NO. 1 BUSHELING	21,138	1,292	1,192	--	24,938	1,520	8,347
ALL OTHER CARBON STEEL SCRAP	68,530	30,063	10,876	4	102,440	275	77,528
STAINLESS STEEL SCRAP	84	--	2,027	2	2,049	35	1,641
ALLOY STEEL (EXCEPT STAINLESS)	2,426	3	512	146	2,431	296	9,050
INGOT MOLD AND STUOL SCRAP	9,996	--	6,901	470	18,373	701	55,734
MACHINERY AND CUPOLA CAST IRON	78,481	7,969	52,419	1,076	137,491	316	90,277
CAST IRON BORINGS	46,922	32,491	31,288	89	111,107	3,214	68,398
MOTOR BLOCKS	47,150	319	20,233	--	60,718	498	63,031
OTHER IRON SCRAP	72,625	7,426	208,135	609	275,041	10,788	156,932
OTHER MIXED SCRAP	30,624	34,918	27,867	532	92,470	1,084	57,528
TOTAL SCRAP	781,041	161,984	399,963	2,801	1,299,041	25,288	1,020,426
TOTAL SCRAP THROUGH FEBRUARY 1980	1,543,487	328,348	812,431	4,657	2,647,806	53,029	1,020,426
PIG IRON							
	178,177	--	--	--	183,884	514	106,509
PIG IRON THROUGH FEBRUARY 1980	361,148	--	--	--	372,450	2,092	106,509

1/ BASED ON RETURNS FROM 63% OF REPORTING CONSUMERS, REPRESENTING 78% OF SCRAP CONSUMPTION.

TABLE 5. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN FEBRUARY 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/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP		PIG IRON		SCRAP		PIG IRON		SCRAP	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	408,042	--	--	--	--	--	--	--	408,042	--
BASIC OXYGEN PROCESS 4/	1,945,379	5,163,340	4,866	715	--	--	--	--	1,945,379	5,163,340
OPEN-HEARTH FURNACE	772,757	836,292	4,866	715	--	--	--	--	772,757	836,292
ELECTRIC FURNACE	2,888,462	58,233	258,158	3,458	448,738	25,187	86,878	3,595,358	937,387	65,933
CUPOLA FURNACE	110,516	4,688	8,011	--	818,860	61,245	--	880,101	106,855	29,067
OTHER (INCLUDING AIR FURNACE) 5/	73,675	25,284	1,737	253	31,443	3,530	--	78,885	106,855	29,067
DIRECT CASTINGS 6/	--	125,256	--	--	--	93,922	--	93,922	--	219,178
TOTAL	6,198,831	6,213,093	272,772	4,426	1,299,041	183,884	--	7,770,644	7,770,644	6,401,403

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 STTOOLS.

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, JANUARY 1980 (FINAL) 2/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP				PRODUCTION OF HOME SCRAP				CONSUMPTION				ENDING STOCKS	
	FROM BROKERS, DEALERS AND OTHER SOURCES	FROM OTHER OWN COMPANY PLANTS	RECIRCULATING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)	FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)		FROM SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OPERATIONS BUILDINGS, ETC.)
SCRAP:														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHINGS	31,648	1,579	3,864	559	39,495	5,826	45,596	19,838	62,388	2,099,638	1,130,170	345,340	45,596	
CUT STRUCTURAL AND PLATE	34,531	31,674	46,153	--	74,175	19,838	62,388	247,961	2,099,638	1,130,170	345,340	45,596		
NO.1 HEAVY MELTING STEEL	665,000	270,314	1,365,810	5,713	2,137,832	247,961	2,099,638	13,110	439,156	1,130,170	345,340	45,596		
NO.2 HEAVY MELTING STEEL	209,147	15,654	125,814	590	338,060	13,110	439,156	7,137	1,130,170	345,340	45,596			
NO.1 AND ELECTRIC FURNACE BUNDLES	473,874	32,412	215,871	3	767,291	7,137	1,130,170	15,875	345,340	45,596				
NO.2 AND ALL OTHER BUNDLES	157,305	16,382	3,042	--	215,288	15,875	345,340	--	--	--	--	--		
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	4,898	72	--	1	4,949	--	6,418	--	--	--	--	--		
RAILROAD RAILS	2,855	--	--	--	3,297	--	2,833	--	--	--	--	--		
TURNINGS AND BORINGS	102,555	8,534	32,400	65	148,442	7,667	112,028	17,125	166,177	232,027	99,740	768,113		
SLAG SCRAP (FE CONTENT 70 PERCENT)	153,911	273	300,714	--	439,728	17,125	166,177	--	--	--	--	--		
SHREDDER OR FRAGMENTIZED	239,814	49,408	7,824	--	294,217	--	232,027	532	99,740	768,113	45,596			
NO. 1 BUSHING	102,782	1,299	6,483	19	120,878	532	99,740	64,379	768,113	45,596				
ALL OTHER CARBON STEEL SCRAP	205,001	28,914	867,278	21,239	1,047,324	64,379	768,113	--	--	--	--	--		
STAINLESS STEEL SCRAP	31,569	3,302	56,068	--	88,484	4,254	88,485	8,469	258,607	723,163	5,859	114,300		
ALLOY STEEL (EXCEPT STAINLESS)	17,125	20,748	120,761	920	151,188	8,469	258,607	82,986	5,859	114,300	45,596			
INGOT MOLD AND STUOL SCRAP	10,845	51,740	86,067	139,215	291,215	--	--	--	--	--	--	--		
MACHINERY AND CUPOLA CAST IRON	90	81	--	--	78	--	--	--	--	--	--	--		
CAST IRON BORINGS	28,340	321	12,500	4,940	52,621	16,845	114,300	30,823	358,076	76,336	768,113			
MOTOR BLOCKS	--	--	--	--	--	--	--	--	--	--	--	--		
OTHER IRON SCRAP	28,300	22,578	58,559	509	78,039	30,823	358,076	4,769	76,336	768,113	45,596			
OTHER MIXED SCRAP	30,805	9,618	16,343	--	57,784	4,769	76,336	--	--	--	--	--		
TOTAL SCRAP	2,530,395	564,903	3,325,551	173,773	6,350,385	547,596	7,134,460	6,445,541	525,822	724,277	724,277			
TOTAL SCRAP THROUGH JANUARY 1980	2,530,395	564,903	3,325,551	173,773	6,350,385	547,596	7,134,460	6,445,541	525,822	724,277	724,277			
PIG IRON	267,429	267,429	6,592,265	6,592,265	6,445,541	525,822	724,277	6,445,541	525,822	724,277	724,277			
PIG IRON THROUGH JANUARY 1980	267,429	267,429	6,592,265	6,592,265	6,445,541	525,822	724,277	6,445,541	525,822	724,277	724,277			

1/ INCLUDES ONLY THOSE MANUFACTURERS OF STEEL CASTINGS THAT ALSO PRODUCE RAW STEEL.
2/ BASED ON RETURNS FROM 90% OF REPORTING CONSUMERS, REPRESENTING 97% 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, JANUARY 1980 (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 RESULTING FROM CURRENT OPERATIONS	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES	FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)	FROM BROKERS, DEALERS AND OTHER OUTSIDE SOURCES		FROM SCRAP (INCLUDES INGOT CHASED AND MELTS, STOKES, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING OF SCRAP OPERATIONS BUILDINGS, ETC.)
SCRAP:														
CARBON STEEL-														
LOW-PHOSPHORUS PLATE AND PUNCHINGS	57,480	390	19,026	--	77,817	180	75,448							
CUT STRUCTURAL AND PLATE	22,372	1,030	1,848	--	24,964	86	28,591							
NO.1 HEAVY MELTING STEEL	18,362	56	8,512	--	22,698	777	25,284							
NO.2 HEAVY MELTING STEEL	5,369	7	1,249	--	7,292	--	14,811							
NO.1 AND ELECTRIC FURNACE BUNDLES	1,270	--	207	--	1,681	--	3,613							
NO.2 AND ALL OTHER BUNDLES	474	--	--	--	291	--	1,222							
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	5,811	--	1,489	--	7,431	68	5,537							
RAILROAD RAILS	31	--	--	--	25	--	23							
TURNINGS AND BORINGS	5,407	288	2,003	--	6,181	611	4,138							
SLAG SCRAP (FE CONTENT 70 PERCENT)	--	--	6	--	--	8	18							
SHREDDED OR FRAGMENTIZED	2,755	1,037	--	--	4,345	--	2,129							
NO. 1 BUSHELTING	1,991	702	--	--	2,884	--	4,284							
ALL OTHER CARBON STEEL SCRAP	45,652	2,019	28,957	--	75,492	208	39,419							
STAINLESS STEEL SCRAP	1,713	66	2,466	4	4,177	274	4,882							
ALLOY STEEL (EXCEPT STAINLESS)	5,345	--	8,380	--	15,149	466	27,025							
INGOT MOLD AND STUOL SCRAP	166	--	17	--	293	8	849							
MACHINERY AND CUPOLA CAST IRON	244	--	435	--	716	1	1,543							
CAST IRON BORINGS	5,720	--	2,084	--	7,031	--	6,099							
MOTOR BLOCKS	25	--	--	--	20	--	69							
OTHER IRON SCRAP	1,422	913	7,592	--	9,359	934	11,269							
OTHER MIXED SCRAP	35	--	447	--	511	--	22							
TOTAL SCRAP	181,644	6,508	84,718	4	268,357	3,621	256,275							
TOTAL SCRAP THROUGH JANUARY 1980	181,644	6,508	84,718	4	268,357	3,621	256,275							
PIG IRON		4,097	--	--	4,095	--	5,744							
PIG IRON THROUGH JANUARY 1980		4,097	--	--	4,095	--	5,744							

1/ EXCLUDES COMPANIES THAT PRODUCE BOTH RAW STEEL AND CASTINGS.
2/ BASED ON RETURNS FROM 80% OF REPORTING CONSUMERS, REPRESENTING 84% 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, JANUARY 1980 (FINAL) 1/ (SHORT TONS)

ITEM	RECEIPTS OF SCRAP			PRODUCTION OF HOME SCRAP			CONSUMPTION OF BOTH PUR-			ENDING STOCKS
	FROM BROKERS, DEALERS AND OTHER	FROM OTHER OWN COMPANY PLANTS	OUTSIDE SOURCES	FROM SCRAP (INCLUDES INGOT AND SCRAP FROM CURRENT OPERATIONS BUILDINGS, ETC.)	RESULTING FROM	RECYCLING OBSOLETE SCRAP (INCLUDES INGOT CHASED AND MOLD, STOLS, HOME SCRAP AND SCRAP FROM (INCLUDES RE-OLD EQUIPMENT, CIRCULATING SCRAP))	OF BOTH PUR-	CHASED AND	SHIPMENTS OF SCRAP	
SCRAP:										
CARBON STEEL-										
LOW-PHOSPHORUS PLATE AND PUNCHINGS	61,945	4,333		6,403		28	79,601		1,113	39,916
CUT STRUCTURAL AND PLATE	112,435	7,958		16,935		27	136,509		346	102,524
NO.1 HEAVY MELTING STEEL	17,211	3,615		6,247		--	22,763		2,394	55,802
NO.2 HEAVY MELTING STEEL	4,754	430		3,297		63	9,053		63	2,643
NO.1 AND ELECTRIC FURNACE BUNDLES	7,542	8,561		4,648		25	19,654		--	17,153
NO.2 AND ALL OTHER BUNDLES	32,035	--		--		--	30,038		--	34,928
ELECTRIC FURNACE 1 FOOT AND UNDER (NOT BUNDLES)	8,958	4,043		106		--	14,270		--	7,973
RAILROAD RAILS	13,606	--		24		--	11,620		--	12,568
TURNINGS AND BORINGS	41,638	7,708		3,452		--	57,055		3,475	95,643
SLAG SCRAP (FE CONTENT 70 PERCENT)	3,440	--		51		--	4,131		51	8,319
SHREDDED OR FRAGMENTIZED	81,848	220		--		--	80,269		--	53,682
NO. 1 BUSHING	25,740	4,765		1,192		--	29,339		1,520	9,851
ALL OTHER CARBON STEEL SCRAP	65,203	11,122		11,030		117	119,579		1,914	68,780
STAINLESS STEEL SCRAP	133	--		2,049		3	2,152		29	1,616
ALLOY STEEL (EXCEPT STAINLESS)	2,383	2		488		202	2,365		364	8,721
INGOT MOLD AND STUOL SCRAP	12,782	--		3,843		263	16,652		561	56,548
MACHINERY AND CUPOLA CAST IRON	75,898	9,357		52,525		142	136,339		713	88,676
CAST IRON BORINGS	46,481	45,436		29,776		87	115,082		3,186	74,257
MOTOR BLOCKS	48,401	411		27,318		--	70,290		503	60,409
OTHER IRON SCRAP	67,364	8,424		215,365		549	281,963		11,003	150,467
OTHER MIXED SCRAP	32,649	49,979		27,719		350	110,041		482	56,571
TOTAL SCRAP	762,446	166,364		412,468		1,856	1,348,765		27,741	1,007,047
TOTAL SCRAP THROUGH JANUARY 1980	762,446	166,364		412,468		1,856	1,348,765		27,741	1,007,047
PIG IRON		182,971				--	188,566		1,578	110,732
PIG IRON THROUGH JANUARY 1980		182,971				--	188,566		1,578	110,732

1/ BASED ON RETURNS FROM 74% OF REPORTING CONSUMERS, REPRESENTING 89% OF SCRAP CONSUMPTION.

TABLE 9. - CONSUMPTION OF IRON AND STEEL SCRAP AND PIG IRON IN THE UNITED STATES
IN JANUARY 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/		IRON FOUNDRIES AND MISCELLANEOUS USERS		TOTAL ALL TYPES	
	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON	SCRAP	PIG IRON
BLAST FURNACE 3/	371,013	--	--	--	--	--	371,013	--
BASIC OXYGEN PROCESS 4/	2,063,803	5,391,019	5,347	655	--	--	2,063,803	5,391,019
OPEN-HEARTH FURNACE	761,824	632,877	254,203	3,230	431,116	25,762	767,171	633,532
ELECTRIC FURNACE	3,062,474	255,444	7,462	--	884,758	59,443	3,747,793	284,436
CUPOLA FURNACE	7,937	8,536	1,345	210	32,891	3,364	900,157	67,979
OTHER (INCLUDING AIR FURNACE) 5/	83,334	29,575	--	--	--	99,997	117,570	33,149
DIRECT CASTINGS 6/	--	128,090	--	--	--	--	--	228,087
TOTAL	6,350,385	6,445,541	268,357	4,095	1,348,765	188,566	7,967,507	6,638,202

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 992,324 short tons in February compared with 1,139,063 tons in January. Exports of pig iron during February totaled 864 tons and 1,908 tons in January. Imports of scrap totaled 70,000 short tons in February compared with 49,720 tons in January. Of the scrap imported during February 60,000 short tons came from Canada and 10,000 tons from other sources. Imports of pig iron totaled 27,166 short tons in February and 5,492 tons in January.

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

Country	February 1980		Year to date	
	Short tons	Value	Short tons	Value
Canada-----	83,220	\$7,617,117	158,427	\$13,233,872
Germany, Federal Rep. of--	110	79,775	28,787	2,996,922
Greece-----	45,556	4,739,174	120,938	13,452,102
Italy-----	184,888	22,637,904	440,508	49,686,259
Japan-----	222,842	27,765,472	505,343	57,919,598
Korea, Republic of-----	83,991	11,367,670	220,050	28,716,801
Mexico-----	81,627	9,236,894	164,518	18,862,116
Spain-----	133,891	16,233,942	213,185	22,947,116
Taiwan-----	122,819	13,900,804	180,412	21,092,559
Thailand-----	2,598	188,167	9,921	1,576,747
Turkey-----	19,717	2,099,539	30,740	3,171,547
United Kingdom-----	475	86,198	651	112,450
Other countries -----	10,590	2,564,965	57,907	8,550,437
Total-----	992,324	118,517,621	2,131,387	242,318,526

^{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	February 1980		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-----	293,019	\$34,686,881	580,809	\$63,901,251
No. 2 heavy melting steel scrap-----	102,380	10,557,967	217,579	21,338,610
No. 1 bundles-----	17,414	1,747,485	27,902	2,925,552
No. 2 bundles-----	21,443	1,671,047	52,967	4,418,899
Borings, shovelings and turnings-----	33,490	1,504,120	92,770	5,196,288
Stainless steel-----	11,224	7,484,606	18,341	12,269,188
Shredded steel scrap-----	336,031	37,119,807	727,507	78,811,463
Iron scrap (excluding borings and shovelings)-	49,820	5,017,256	97,581	9,501,758
All other steel scrap ^{1/} -----	127,503	18,728,452	315,931	43,955,517
Total-----	992,324	118,517,621	2,131,387	242,318,526
Ships, boats, and other vessels for breaking up (for scrapping)-----	404	44,767	10,302	2,003,133
Total-----	992,728	118,562,388	2,141,689	244,321,659

^{1/} Includes tinplate and terneplate.

Source: Bureau of the Census.