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FERROUS SCRAP IN APRIL 1959

The combined domestic consumption of ferrous scrap and pig iron in steel-making furnaces during April 1959, was 2 percent less than during the record month of March 1959, however, the daily consumption rate of these materials in these furnaces during April was at a record level, according to the Bureau of Mines, United States Department of the Interior. Ferrous scrap consumed in steelmaking furnaces (open-hearth, Bessemer, basic oxygen process, and electric) was 2 percent less than during the preceding month, but was 104 percent greater than during the comparable month of 1958. The use of pig iron in these furnaces during April was 3 percent lower than during March, but 100 percent higher than during April 1958. The total steel-furnace melt (11,122,531 gross tons), consisted of 46 percent scrap and 54 percent pig iron, unchanged from March.

Table 1 - Summary of production, receipts, consumption, and consumers' stocks of ferrous scrap and pig iron, November 1958 to April 1959, in gross tons

Date	Scrap for consumption			Consumption		Consumers' stocks at end of month	
	Home scrap produced	Purchased scrap received (net)	Total	Scrap	Pig iron	Scrap	Pig iron ^{1/}
Nov. 1958	2,813,830	2,248,222	5,062,052	4,803,615	5,190,118	8,303,244	3,466,262
Dec. 1958	3,019,900	2,218,407	5,238,307	4,973,670	5,319,991	8,565,714	3,539,526
Jan. 1959	3,139,909	1,996,185	5,136,094	5,375,042	5,609,509	8,330,913	3,477,606
Feb. 1959	3,250,026	2,263,986	5,514,012	5,657,873	5,627,953	8,197,032	3,296,182
Mar. 1959	3,869,752	2,861,674	6,731,426	6,677,499	6,798,053	8,242,936	3,171,999
Apr. 1959	3,919,279	2,755,886 ^{2/}	6,675,165	6,644,905	6,652,916	8,275,777	3,095,256

^{1/} Suppliers' stocks included with consumers' stocks.

^{2/} Excludes 221,127 gross tons of scrap shipped, transferred or otherwise disposed of during the month.

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Total domestic consumption of ferrous scrap for all purposes in April was slightly less than during March, but was at a record daily consumption rate of 221,497 gross tons, 3 percent greater than during the preceding month. Pig iron consumed during April was 2 percent less tonnagewise, but was 1 percent higher on a daily consumption rate basis as compared with March. The total melt (13,297,821 gross tons) consisted of 50 percent scrap and 50 percent pig iron.

The use of scrap by gray iron foundries during April totaled 911,313 gross tons, an increase of 4 percent over the 873,982 tons, used during March and the largest quantity consumed by this industry since March 1956. Pig iron consumed by this industry totaled 366,378 tons, an increase of 4 percent over the previous month.

Domestic stocks of ferrous scrap and pig iron held by consumers at the end of April totaled 11,371,033 gross tons, a slight decrease from those held at the end of the preceding month. Stocks of ferrous scrap were equivalent to a 37-day supply at the April daily consumption rate and totaled 8,275,777 tons, slightly greater than at the end of March, and those held on April 30, 1958. Pig iron stocks held by consumers and suppliers, totaled 3,095,256 tons, a decrease of 2 percent from those held on March 31, and 14 percent less than the record stocks of this commodity held on April 30, 1958.

Home scrap produced, plus purchased scrap received totaled 6,675,165 tons during April, a slight decrease from March; home scrap produced accounted for 3,919,279 tons, an increase of 1 percent over March. Net purchased scrap received totaled 2,755,886 tons, a decrease of 4 percent from March. Of the purchases, 85 percent was received from dealers and 15 percent from other sources. Purchased scrap received is a net figure computed by deducting scrap shipped, transferred, or otherwise disposed of by consumers from total scrap received from dealers and all others during the month.

Table 2 - Production and receipts of ferrous scrap by major consuming industries plants, in gross tons

Date	Home scrap produced			Purchased scrap received (net) <u>1/</u>		
	Mfgs. of steel ingots and castings	Mfgs. of steel castings	Iron foundries and miscellaneous users	Mfgs. of steel ingots and castings	Mfgs. of steel castings	Iron foundries and miscellaneous users
Jan. 1959	2,674,204	85,213	380,492	1,490,357	90,383	415,445
Feb. 1959	2,771,238	89,710	389,078	1,719,644	110,442	433,900
Mar. 1959	3,324,913	105,496	439,343	2,218,698	129,608	513,368
Apr. 1959	3,356,592	110,091	452,596	2,085,713	140,694	529,479

1/ Excludes scrap shipped, transferred or otherwise disposed of during the month.

Table 3 - Scrap produced, received, and consumed during April, stocks at consumers plants April 30, 1959, and consumption year-to-date, by grades, in gross tons

Grades of scrap	Home scrap produced	Purchased scrap received		Total scrap consumed	Scrap stocks Apr. 30	Consumption Year-to-date
		From dealers*	From others*			
No. 1 heavy melting steel-----	1,664,503	453,628	78,773	2,235,733	2,538,944	8,242,556
No. 2 heavy melting steel-----	180,502	310,443	37,348	463,585	763,323	1,706,643
No. 1 and electric furnace bundles-----	97,997	316,364	104,265	530,568	755,665	2,007,566
No. 2 and all other bundles-----	25,763	347,245	29,029	361,247	861,029	1,385,893
Low phosphorous scrap-----	103,211	223,917	26,562	368,921	522,243	1,316,353
Cast iron scrap other than borings-----	563,387	356,225	54,272	934,104	1,022,896	3,451,002
Turnings and/or borings, alloy free-----	46,535	236,611	34,822	308,751	224,409	1,011,305
Rerolling rails-----	-	25,423	23,064	45,094	145,006	168,428
Scrap rails-----	3,420	26,758	1,979	29,702	61,615	108,550
High speed steel-----	1,783	543	174	3,153	3,969	10,893
Stainless steel-----	47,620	21,235	3,635	69,892	102,618	252,067
All other alloy iron and steel-----	167,100	26,983	11,783	203,423	273,340	746,852
All other prepared scrap-----	622,914	134,992	35,649	871,153	562,617	3,166,469
Unprepared scrap-----	394,544	45,078	10,213	219,579	438,103	780,742
Total (all grades)-----	3,919,279	2,525,445	451,568	6,644,905	8,275,777	24,355,319

* Includes 221,127 gross tons of scrap shipped, transferred, or otherwise disposed of during the month.

Table 4 - Stocks of ferrous scrap and pig iron on hand at major consuming industries plants, at end of month, in gross tons

Date	Scrap stocks			Pig iron stocks		
	Mfgs. of steel ingots and castings	Mfgs. of steel castings	Iron foundries and miscel-laneous users	Mfgs. of steel ingots and castings	Mfgs. of steel castings	Iron foundries and miscel-laneous users
Nov. 30, 1958-----	7,094,121	414,887	794,236	2,959,237	37,537	469,488
Dec. 31, 1958-----	7,357,904	410,187	797,623	3,048,913	36,491	454,122
Jan. 31, 1959-----	7,172,318	387,775	770,820	3,022,110	36,084	419,412
Feb. 28, 1959-----	7,062,756	378,494	755,782	2,827,861	37,816	430,505
Mar. 31, 1959-----	7,091,280	366,923	784,733	2,668,774	38,125	465,100
Apr. 30, 1959-----	7,123,652	358,332	793,793	2,522,156	41,060	532,040
						3,466,262
						3,539,526
						3,477,606
						3,296,182
						3,171,999
						3,095,256

DEALERS, BROKERS, AND AUTOMOBILE WRECKERS FOR APRIL 1959

The 955 identical companies reporting for March and April indicated that at the end of April, stocks of ferrous scrap in their yards had decreased 1 percent from the end of March. During April, receipts dropped by 4 percent and shipments were lower by slightly less than 1 percent compared with March. Receipts in April were 30 percent less than shipments. Of the scrap handled during April, six grades (No. 1 and No. 2 heavy melting steel, No. 1 and electric furnace bundles, No. 2 and all other bundles, low phosphorous and cast iron scrap other than borings) represented 68 percent of the total shipments and 44 percent of the stocks on April 30. Unprepared scrap stocks held in dealers and automobile wreckers yards at the end of April constituted 45 percent of the total.

Table 5 - Dealers, brokers, and automobile wreckers, receipts, shipments, and stocks of ferrous scrap, for April 1959, in gross tons

Grades of scrap	Receipts during month		Shipments during month		Stocks	
	April 1959	Change from previous month (percent)	To domestic consumers	For export	April 30 1959	Change from end of previous month (percent)
No. 1 heavy melting steel-----	64,020	+27	111,552	44,080	137,835	+ 4
No. 2 heavy melting steel-----	64,867	-11	97,341	35,292	153,586	- 1
No. 1 and electric furnace bundles-----	9,231	- 9	41,342	482	19,000	- 5
No. 2 and all other bundles-----	48,489	-12	109,942	8,297	175,329	+ 1
Low phosphorous scrap-----	15,577	+10	36,917	7,065	32,654	-13
Cast iron scrap other than borings-----	54,161	+10	91,748	6,613	67,888	- 7
Turnings and/or borings, alloy free-----	19,055	- 5	45,779	88	59,635	- 7
Rerolling rails-----	2,149	-69	6,981	448	10,878	+ 3
Scrap rails-----	2,466	-40	4,336	-	17,032	+ 4
Highspeed steel-----	25	-56	89	-	94	-27
Stainless steel-----	4,545	-10	5,401	-	6,163	- 5
All other alloy iron and steel-----	1,053	-47	3,871	102	3,475	-22
All other prepared scrap-----	15,329	- 1	51,599	34,520	50,696	- 2
Unprepared scrap-----	308,459	- 6	128,168	2,027	608,957	- 1
Total (all grades)-----	609,426	- 4	735,066	139,014	1,343,222	- 1

1/ Includes shipments from yards, and direct shipments by dealers and brokers from other than yard operations.

CONSUMPTION OF FERROUS SCRAP AND PIG IRON

Consumption of scrap in April totaled 6,644,905 gross tons which was at an average daily rate of 221,497 tons or 61 percent greater than for the year 1958.

In April, open-hearth furnaces used 61 percent of the total scrap, and 84 percent of the pig iron compared with 63 and 85 percent, respectively, in March; electric furnaces in April used 8 percent of the combined total of ferrous scrap and pig iron charged to all furnaces, with open-hearth using 72 percent. During 1958, these percentages were 7 and 73, respectively. Blast furnaces used 6 percent of the total scrap; the corresponding percentage for the year 1958 was 5.

During April, steelmaking furnaces (open-hearth, Bessemer, oxygen steel process, and electric) accounted for 77 percent of the total scrap, and 90 percent of the pig iron consumed, compared with 79 and 90 percent, respectively, during March. In 1958, steelmaking furnaces used 76 percent of the total scrap, and 90 percent of the pig iron. The remainder was used in iron-making furnaces, principally the cupola. Consumption by type of furnace during April is shown in the following table:

Table 6 - Consumption of ferrous scrap and pig iron by manufacturers of ingots, steel castings and iron foundries during April 1959, by type of furnace, in gross tons

Type of furnace or equipment	Steel ingots and castings 1/		Steel castings 2/		Iron foundries and miscellaneous users		Total	
	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron	Scrap	Pig iron
Open-hearth-----	4,000,167	5,567,793	55,407	7,645	-	-	4,055,574	5,575,438
Basic oxygen process-----	63,790	178,469	-	-	-	-	63,790	178,469
Bessemer-----	23,516	186,847	869	57	208	40	24,593	186,944
Electric 3/-----	841,403	35,376	136,353	2,458	18,370	3,763	996,126	41,597
Total steelmaking furnaces-----	4,928,876	5,968,485	192,629	10,160	18,578	3,803	5,140,083	5,982,448
Cupola-----	67,441	46,125	44,406	1,800	799,466	318,453	911,313	366,378
Air-----	3,005	1,095	23,904	4,526	80,063	16,376	106,972	21,997
Blast 4/-----	391,436	-	-	-	-	-	391,436	-
Direct casting-----	-	162,017	-	-	-	120,076	-	282,093
Ferro-alloy-----	-	-	-	-	28,154	-	28,154	-
Miscellaneous-----	18,764	-	-	-	48,183	-	66,947	-
Total April 1959-----	5,409,522	6,177,722	260,939	16,486	974,444	458,708	6,644,905	6,652,916
Total March 1959-----	5,504,795	6,340,149	247,534	15,299	925,170	442,605	6,677,499	6,798,053
Total February 1959-----	4,611,586	5,216,578	210,810	12,947	835,477	398,428	5,657,873	5,627,953
Total January 1959-----	4,351,939	5,208,421	201,285	11,981	821,818	389,107	5,375,042	5,609,509
Total December 1958-----	3,984,747	4,938,658	196,342	11,982	792,581	369,351	4,973,670	5,319,991
Total November 1958-----	3,900,102	4,840,092	166,587	10,468	736,926	339,558	4,803,615	5,190,118

1/ Includes only those castings made by companies producing steel ingots.

2/ Excludes companies that produce both steel castings and steel ingots.

3/ Includes crucible furnaces.

4/ Includes consumption in all blast furnaces producing pig iron.

Table 7 - Consumers' production, receipts, consumption, and stocks of ferrous scrap, and consumption of pig iron in the United States, by State and Region, in gross tons

State and region	Scrap			Scrap stocks Apr. 30, 1959	Pig iron consumed
	Home scrap produced	Purchased scrap received	Consumed		
United States, total	3,919,279	2,977,013 ^{1/}	6,644,905	8,275,777	6,652,916
New England, total	20,246	19,974	38,887	52,370	13,752
Connecticut	5,897	4,734	10,056	14,551	2,815
Maine and New Hampshire	517	861	982	1,355	325
Massachusetts	9,295	9,135	17,327	26,367	5,684
Rhode Island	3,799	4,654	8,917	8,406	4,030
Vermont	738	590	1,605	1,691	898
Middle Atlantic, total	1,137,134	788,661	1,870,867	2,306,414	2,096,897
New Jersey	15,888	38,849	54,440	66,237	14,173
New York	165,222	151,639	324,059	557,556	323,690
Pennsylvania (East) ^{2/}	237,238	223,964	455,431	638,623	478,891
Pennsylvania (West)	718,786	374,209	1,036,937	1,043,998	1,280,143
East North Central, total	1,887,607	1,249,001	3,077,546	3,432,692	3,035,219
Illinois	332,086	279,504	595,341	788,339	527,192
Indiana	496,060	249,471	722,725	976,230	824,090
Michigan	275,549	228,832	507,106	390,305	411,019
Ohio (East) ^{3/}	636,695	355,885	974,699	909,905	1,086,328
Ohio (West)	102,906	97,183	202,354	318,293	165,924
Wisconsin	44,311	38,126	75,321	49,620	20,666
West North Central, total	61,574	140,648	182,974	351,748	62,631
Iowa	15,290	26,461	39,920	34,659	9,223
Kansas and Nebraska	5,350	9,530	15,784	11,048	463
Minnesota	22,270	16,789	43,970	119,334	47,278
Missouri	18,664	87,868	83,300	186,707	5,667
South Atlantic, total	316,419	186,354	482,046	507,658	584,859
Delaware, District of Columbia, and Maryland	241,677	67,535	305,514	296,220	399,863
Florida and Georgia	5,818	23,439	30,958	17,000	1,037
North Carolina	2,069	4,038	5,823	3,958	2,018
South Carolina	1,162	882	2,279	2,735	1,529
Virginia and West Virginia	65,693	90,460	137,472	187,745	180,412
East South Central, total	200,218	215,983	363,892	442,350	412,857
Alabama	144,918	121,538	230,945	245,588	334,051
Kentucky, Mississippi, and Tennessee	55,300	94,445	132,947	196,762	78,806
West South Central, total	64,974	133,770	182,905	349,427	74,873
Arkansas, Louisiana, and Oklahoma	4,203	16,675	20,466	19,601	562
Texas	60,771	117,095	162,439	329,826	74,311
Rocky Mountain, total	108,126	83,290	172,919	226,403	206,754
Arizona and Nevada	1,625	4,674	7,060	16,793	13
Colorado and Utah	106,162	76,803	164,166	204,865	206,680
Idaho and Montana	339	1,813	1,693	4,745	61
Pacific Coast, total	122,981	159,332	272,869	606,715	165,074
California	111,616	120,459	218,874	464,076	164,748
Oregon	3,461	17,561	16,992	43,030	103
Washington	7,904	21,312	37,003	99,609	223

^{1/} Includes 221,127 gross tons that was shipped, transferred, or otherwise disposed of during the month.

^{2/} Pennsylvania is divided into East and West by the eastern boundary of the following counties: McKean, Cameron, Clearfield, Cambria, and Somerset.

^{3/} Ohio is divided into East and West by the eastern boundary of the following counties: Ottawa, Sandusky, Seneca, Crawford, Morrow, Delaware, Franklin, Pickaway, Ross, Pike, and Scioto.

Table 8 - Consumption of ferrous scrap and pig iron in open-hearth furnaces in the United States, by State and Region, in gross tons

State and Region	Consumption during April 1959		
	Total scrap	Pig iron	Total charge
United States, total-----	4,055,574	5,575,438	9,631,012
New England and Middle Atlantic, total--	1,353,732	1,819,609	3,173,341
Massachusetts, New Jersey, and Rhode Island-----	24,243	6,341	30,584
New York-----	238,771	309,948	548,719
Pennsylvania (East)-----	340,594	431,391	771,985
Pennsylvania (West)-----	750,124	1,071,929	1,822,053
East North Central, total-----	1,805,500	2,494,905	4,300,405
Illinois-----	308,252	420,936	729,188
Indiana-----	629,857	799,427	1,429,284
Michigan and Wisconsin-----	171,447	265,626	437,073
Ohio (East)-----	589,322	860,539	1,449,861
Ohio (West)-----	106,622	148,377	254,999
West North Central, total-----	58,998	46,094	105,092
Minnesota and Missouri-----	58,998	46,094	105,092
South Atlantic, total-----	365,823	564,077	929,900
Delaware, Maryland, and West Virginia--	365,823	564,077	929,900
East and West South Central, total-----	221,939	366,910	588,849
Alabama, Kentucky, Tennessee, and Texas	221,939	366,910	588,849
Rocky Mountain and Pacific Coast, total-	249,582	283,843	533,425
California, Colorado, and Utah-----	249,582	283,843	533,425

FOREIGN TRADE 1/

According to the Bureau of the Census, exports of ferrous scrap totaled 269,014 gross tons in April and 254,356 tons in March. During May 1959, the Office of Export Supply, United States Department of Commerce, issued scrap export licenses for 310,086 gross tons. Exports of pig iron during April totaled 925 tons and 92 tons in March. Imports of scrap totaled 19,484 gross tons in April compared with 21,141 tons in March. Imports of pig iron totaled 34,740 gross tons in April and 7,542 tons in March. In addition, to the foregoing imports of pig iron during April, there was 1,182 tons of sponge iron, valued at \$151,933, imported, of which 149 tons came from Canada and 1,033 tons from Sweden.

Table 9 - Imports 2/ of ferrous scrap into the United States,
by countries
(U. S. Department of Commerce)

Country	April 1959		Jan. through Apr. 1959	
	Gross tons	Value	Gross tons	Value
Canada-----	15,626	\$580,955	58,060	\$2,267,483
Cuba-----	170	2,432	875	14,504
France-----	-	-	88	20,425
Japan-----	-	-	65	24,336
United Kingdom-----	2,989	152,483	5,310	234,186
West Germany-----	192	38,889	3,463	238,808
All others-----	507	15,959	5,727	366,421
Total-----	19,484	\$790,718	73,588	\$3,166,163

Table 10 - Exports 2/ of ferrous scrap from the United States, by countries
(U. S. Department of Commerce)

Country	April 1959		Jan. through Apr. 1959	
	Gross tons	Value	Gross tons	Value
Argentina-----	538	\$29,319	1,026	\$67,648
Canada-----	50,010	1,923,249	124,840	5,058,846
Greece-----	132	28,200	770	122,538
Italy-----	9,584	242,514	31,342	973,858
Japan-----	156,624	5,989,169	644,094	23,068,747
Mexico-----	18,913	708,980	94,693	3,562,182
Netherlands-----	-	-	380	5,966
Spain-----	26,283	1,049,195	41,532	1,636,650
Taiwan-----	-	-	9,449	374,250
All others-----	6,930	320,561	11,792	615,920
Total-----	269,014	\$10,291,187	959,918	\$35,486,605

Table 11 - Exports 2/ of ferrous scrap from the United States, by grades
(U. S. Department of Commerce)

	April 1959		Jan. through Apr. 1959	
	Gross tons	Value	Gross tons	Value
No. 1 heavy melting steel scrap-----	103,187	\$4,302,893	356,240	\$14,067,072
No. 2 heavy melting steel scrap-----	64,863	2,345,201	274,493	9,820,101
No. 1 baled sheet melting scrap-----	16,214	658,785	42,164	1,744,274
No. 2 baled sheet melting scrap-----	29,561	768,413	139,389	3,569,385
Borings, shoveling, and turnings-----	5,196	129,616	21,018	529,350
Iron scrap-----	39,693	1,482,889	98,755	4,005,341
Rerolling material-----	2,133	145,170	3,616	271,598
All other scrap 3/-----	8,167	458,220	24,243	1,479,484
Total-----	269,014	\$10,291,187	959,918	\$35,486,605

- 1/ To conform with other data in this report foreign trade data include tin plate scrap.
2/ Preliminary data subject to revision. Value may differ widely because of variations in quality, classes, and grade combinations.
3/ Includes terne plate, tin plate, circles, cobbles, strip, and scroll shear butts.