



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF MINES

DOUGLAS McKAY, Secretary

J. J. FORBES, Director

Iron and Steel Scrap Monthly Report No. 169

TRON AND STEEL SCRAP IN NOVEMBER 1954

Continued high steel production during November, 5 percent greater than October, reflected increased consumption of ferrous materials (scrap and pig iron) in steel-making furnaces, according to the Bureau of Mines, United States Department of the Interior. Scrap and pig iron so used increased 3 percent and 6 percent, respectively, over October. The total melt (7,944,032 gross tons) in steel-making furnaces, 4 percent greater than the previous month, consisted of 47 percent scrap and 53 percent pig iron. Electric furnaces used 573,298 tons of scrap during November, an increase of 8 percent over October.

Scrap consumed for all purposes totaled 4,928,850 gross tons, an increase of 3 percent over October, and pig iron consumption totaled 4,764,215 tons, an increase of 5 percent. The daily consumption rate of ferrous materials (scrap and pig iron) was 323,102 gross tons, an increase of 8 percent over October; the total melt (9,301,258 gross tons), an increase for the fourth consecutive month, consisted of 51 percent scrap and 49 percent pig iron, the same as during October.

Table 1 - Summary of production, receipts, consumption and consumers' stocks of iron and steel scrap and pig iron, June 1954 to November 1954, in gross tons

	Scrap	for Consump	tion	Consum	ption		rs' Stocks of month
Date	Home Scrap Produced	Purchased Scrap Received (Net)	Total	Scrap	Pig iron	Scrap	Pig iron /
June 1954 July 1954 Aug. 1954 Sept. 1954 Oct. 1954 Nov. 1954	2,351,004 2,411,599 2,426,328 2,623,832	2,011,637 1,717,506 1,846,944 1,795,827 2,163,398 2,500,2932/	4,659,152 4,068,510 4,258,543 4,222,155 4,787,230 5,237,695	4,664,561 3,909,336 4,164,703 4,298,495 4,782,488 4,928,850	4,297,531 3,990,431 4,013,552 4,005,578 4,518,770 4,764,215	5,638,318 5,798,311 5,891,822 5,812,356 5,811,262 6,117,512	2,339,580 2,465,967 2,538,723 2,448,914 2,357,134 2,261,366

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

Prepared by James E. Larkin and James C.O. Harris, February 11, 1955, under the supervision of Norwood B. Melcher, Chief, Branch of Ferrous Metals and Ferroalloys, Division of Minerals.

[/] Excludes 174,475 gross tons of scrap shipped, transferred or otherwise disposed of during month.

Stocks of ferrous materials (scrap and pig iron) held by consumers at the end of November totaled 8,378,878 tons, an increase of 3 percent over the previous month. Stocks of scrap at the end of November totaled 6,117,512 tons, an increase of 5 percent over October; pig iron stocks totaled 2,261,366 tons, a decrease of 4 percent, and the third consecutive month in which these stocks have decreased.

The use of scrap by gray iron foundries during November totaled 737,286 gross tons, an increase of h percent. Pig iron consumption by this industry increased 2 percent and totaled 375,526 gross tons.

Total scrap for consumption (home scrap produced plus purchased scrap received) totaled 5,237,695 gross tons during November, compared with 4,787,230 tons in October; home scrap accounted for 2,737,402 tons and purchases 2,500,293 tons. Of the purchases 88 percent was received from dealers and 12 percent from other sources. Receipts of purchased scrap is a net figure, computed by deducting consumers scrap shipped, transferred or otherwise disposed of during the month from total scrap received from dealers and all others.

Table 2 - Scrap produced and received during November, and stocks at consumers' plants November 30, 1954, in gross tons

		Scrap	received	
	Home Scrap Produced	From Dealers	From Others	Scrap stocks November 30
No. 1 heavy melting steel	1,096,260	422,575	47,595	1,546,763
No. 2 heavy melting steel	147,236	350,449	31,898	761,103
Bundles	84,951	603,896	58,168	942,546
Low phosphorous scrap	82,981	184,150	24,110	880,614
Cast iron scrap, other than borings	454,524	302,921	42,939	853,734
Turnings and/or borings, alloy free	36,996	226,616	28,609	252,137
Rerolling rails	505	36,642	27,082	166,249
Scrap rails	2,228	22,442	3,709	79,474
High speed steel	1,541	533	384	6,057
Stainless steel	30,727	13,952	3,741	64,727
All other alloy iron and steel	107,254	13,522	11,414	235,624
All other prepared scrap	424,122	126,369	24,925	459,696
Unprepared scrap	268,087	51,597	14,530	333,314
Total scrap	2,737,402	2,355,664*	319,104*	6,117,512

^{*} Includes 174,475 gross tons of scrap shipped, transferred or otherwise disposed of during month.

Stocks of iron and steel scrap at the end of November totaled 6,117,512 gross tons, compared with 5,811,262 tons on October 31, and were equivalent to a 37-day supply at the November consumption rate.

Table 3 - Stocks of iron and steel scrap and pig iron on hand at major consuming industries plants, as each of month, in gross tons

	Totel	2,339,580 2,465,967 2,538,723 2,448,914 2,357,134 2,261,366
	Iron Foundries and Miscel- lansous Users	525, 527 527, 523 527, 523 527, 523 527, 525 527, 527, 527
Pig Iron Stocks	Mfgrs. of Steel Castings	50,38 148,933 143,533 145,624 145,624 145,624 145,624
ਜ਼	Mfgrs. of Steel Ingots and Castings	1,759,503 1,880,081 1,977,538 1,910,580 1,826,245 1,726,796
	Total	5,638,318 5,788,311 5,891,822 5,812,356 5,811,262 5,117,522
	Iron Foundries and Miscel- Laneous Users	834,262 837,422 832,096 836,258 835,195 874,362
Serap Stocks	Mfgrs. of Steel Castings	340,659 342,766 333,646 332,806 337,822
	Mfgrs. of Steel Ingots and Castings	1,463,397 1,618,123 1,726,110 1,643,292 1,638,215 1,893,991
	Date	June 30 1954- July 31 1954- Aug. 31 1954- Sept. 30 1954- Oct. 31 1954- Nov. 30 1954-

Table 4 - Consumption of iron and steel scrap in the United States during October and November, by grades, in gross tons

	October	November	Year to date
No. 1 heavy melting steel	1,504,631	1,490,066	15,415,706
Low phosphorous scrap	289,734	281,923	2,912,950
Cast Iron scrap owner than borings	251° 142°	77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65 77.65	2,347,273
Kerolling ralla-sessors sessors sessors Strap rails-sessors sessors	3,8, 4,8,	25,533	490,055 301,879
High speed steel	1,873	2,218	22,067
All other alloy iron and steel	100,000	ផ្លុំផ្លុំ	1,266,578
All other prepared scrap	573,404 159,229	187,223	1,808,646
Total (all grades)	1,782,488	4,928,850	49,705,195

DEALERS AND BROKERS

Companies reporting during November, indicated that by the end of the month, stocks had decreased 2 percent from October. During November, dealers and automobile wreckers received 16 percent more scrap in their yards than during October, while shipments increased 13 percent. Receipts in November, however, were 11 percent less than shipments. Of the scrap handled by dealers during November, five grades (No. 1 and No. 2 heavy melting steel, bundles, low phosphorous, and cast iron scrap, other than borings), represented 49 percent of the receipts, 77 percent of the shipments and 30 percent of the stocks at the end of the month. Unprepared scrap received in dealers and automobile wreckers yards and stocks held in their yards constituted 37 and 58 percent, respectively, of total receipts and stocks.

Table 5 - Dealers and automobile wreckers, receipts, shipments and stocks of iron and steel scrap as percentage of previous month

	Receipts during November 1954	Shipments during November 1954	Stocks Nov. 30, 1954
No. 1 heavy melting steel	130	119	90
No. 2 heavy melting steel	113	113	98
Bundles	106	115	98 89
Low phosphorous scrap	121	117	90
Cast iron scrap other than borings	107	115	103
Turnings and/or borings, alloy free	11 5	m	96
Rerolling rails	101	119	96 98
Scrap rails	113	135	111
High speed steel	•	139	116
Stainless steel	10h	121,	96
All other alloy iron and steel	124	105	99
All other prepared scrap	108	106	99
Unprepared scrap	120	94	99
Total (all grades)	116	113	98

CONSUMPTION OF SCRAP IRON AND STEEL AND PIG IRON

Consumption of scrap in November totaled 4,928,850 gross tons which was at an average daily rate of 164,295 tons or 13 percent less than for the year 1953.

In November, open-bearth furnaces used 64 percent of the total scrap, and 83 percent of the pig iron, the same as during October; electric furnaces in November used 6 percent of the ferrous materials (scrap and pig iron) charged to all furnaces, with open-hearth using 73 percent. During 1953, these percentages were 6 and 73, respectively. Blast furnaces used 6 percent of the total scrap; the corresponding percentage for the year 1953 was 6.

the total scrap, and 88 percent of the pig iron consumed, the same as during October. In 1953, steel-making furnaces used 77 percent of the total scrap, and 88 percent of the pig iron. The remainder was used in iron-making furnaces, principally the cupola. Consumption by type of furnace during November is shown in the following table: During November, steel-making furnaces (open-hearth, Bessemer and electric) accounted for 76 percent of

Table 6 - Consumption of iron and steel sorap and pig iron by manufacturers of ingots, steel castings and iron foundries during November 1954, by type of furnace, in gross tons

Type of furnace	Steel I	Steel Ingots and castings 1/	Steel	Steel Castings	Iron Fou	Iron Foundries and Miscellaneous Users		Total
	Screp	Pig iron	Scrap	Pig fron	Scrap	Pig fron	Scrap	Pig fron
	3,107,994	3,962,860	33,930	5,102	1		गुरु गार	3,967,962
Electric	1,80,835	13,507	78,642	1,278	13,829	1,147	573,298	15,932
Total steel-making furnaces 3,605,458	3,605,458	4,203,517	113,369	6,422	סנוליונ	1,156	3,732,937	4,211,095
Cupola	52,766	705°91	39,151	12,181	645,369	316,843	737,286	375,526
Blast 3/	302,283	• ,		•			302,283	
Direct castings	•	% %	•		ı	65,330	•	317,191
Afrennessensessessessessessessessessessesse	1,982	673	19,3%	4,201	20,166	130	77,844	16,178
Ferronalloy	•		•	•	22,393	. •	22,393	. 1
Miscellaneous	20,747	•		ı	17,360		62,107	
Total November 1954	3,983,236	4,346,778	2171,916	22,804	773,698	394,633	4,928,850	4.764.215
Total October 1954	3,848,989	4,103,939	175,121	26,133	758,378	388,698	4,782,488	1,518,770
Total September 1954	3,403,651	3,620,936	176,633	26,185	118,211	358,457	4,298,495	1,005,578
Total August 1954	3,277,656	3,626,462	179,188	26,531	707,859	360,559	16,164,703	4.013.552
Total July 1954	3,178,491	3,674,777	135,410	23,607	595,435	292,047	3,909,336	3,990,431
Total June 1954	3,709,483	3,888,744	191,413	23,363	763,637	385,124	19,664,561	4,297,531

1/ Includes only those castings made by companies producing steel ingots.
2/ Excludes companies that produce both steel castings and steel ingots.
3/ Includes consumption in blast furnaces by both integrated and non-integrated mills.

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

Companies on his item		Scrap			
State and Region	Home Scrap Produced	Purchased Scrap Received	Consumed	Scrap Stocks Nov. 30, 1954	Pig Iron Consumed
United States, total-	2,737,402	2,674,7681	4,928,850	6,117,512	4,764,215
Undistributed	158	4,111	4,672	29,185	
Hew England, total	24,504	36,731	58,492	82,881	18,427
Connecticut	7,215	8,552	15,879	15,316	3,576
Maine	258	671	586	1,340	236
Massachusetts	13,257 663	21,531 1470	32,413 1,324	56,991 1,142	10,274 236
Rhode Island	2,513	4,663	6.946	1,-840	3,570
Vermont	598	864	1,344	3,252	535
Middle Atlantic, total	781,359	674,147	1,335,879	1,768,433	1,430,792
New York	14,016 143,240	40,354 182,066	46,828 291,011	63,613 404,737	16,139 272,107
Pennsylvania (East)	143,447	156,393	289,478	519,527	231,296
Pennsylvania (West)	480,656	295,334	708,562	780,556	911,250
East North Central, total	817, بليلار 1	1,219,286	2,373,602	2,738,360	2,231,249
Illinois	236,417	313,531	491,472	757,166	338,703
Indiana	351,011	239,281	522,745	593,155	647,995
Michigan	220,381 428,168	200,395	454,273	345,662 814,415	290,180
Ohio (West)	76,677	362,462 73,215	711,363 143,134	163,377	819,171 120,698
Wisconsin	29,163	30,402	50,615	64,585	14,502
West Morth Central, total	45,719	124,938	147,255	294,010	بلبلد,0بل
Iona	11,211	21,240	29,155	29,279	5,401
Kansas and Nebraska	1,316	3,595	5,639	10,739	471
Mimesota	20,781 12,411	33,978 66,125	52,221 60,240	103,540 150,452	32,246 2,026
South Atlantic, total	202,813	176,812	347,672	291,026	142,70h
Delaware, District of Columbia and Maryland	11,2,529	76,760	200,941	141,407	311,401
Florida and Georgia	L.383	17.323	18.452	9.1106	2,695
North Carolina	3,186	2,753	4,586	5,633	1,578
South Carolina	715 52,000	702 79 , 274	1,880 121,813	1,625 132,955	1,097
East South Central, total	141,711	158,620	251,353	242,903	313,784
Alabana	96,693	92,493	160,102	125,421	251,311
Kentucky, Mississippi, and					
Temesses	15,018	66,127	91,251	117,482	62,473
West South Central, total Arkansas, Louisiana, and	15,568	68,083	106,407	180,105	49,109
Oklahoma	2,467	10,010	7بلبار 12	18,527	641
Texas	43,101	58,073	93,960	161,578	48,468
Rocky Mountain, total	74,130	49,713	102,270	145,114	158,212
Arisona and Nevada	288 73,450	3,914 14,117	4,275 96,072	20,528	158,190
Idaho	65 327	539 1,143	651 1,272	1,850 5,565	12 8
Pacific Coast, total-	76,623	162,327	201,248	345,495	79,794
California	69,600	131,542	169,966	257,489	79,450
Oregon	2,501 4,522	13,129 17,656	14,116 17,166	26,278 61,728	151

^{1/} Includes 174,475 gross tons that was shipped, transferred or otherwise disposed of during November.

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

-	Consus	ption during l	lovember 1954
State and Region	Total scrap	Pig iron	Total charge
United States, total	3,141,924	3,967,962	7,109,886
New England, total	24,170	6,665	30,835
Connecticut, Massachusetts, and Rhode Island	24,170	6,665	30,835
Middle Atlantic, total	971,407	1,255,931	2,227,338
New Jersey and New York	219,531 210,830 541,046	259,123 204,190 792,618	478,654 415,020 1,333,664
East North Central, total	1,441,617	1,813,866	3,255,483
Indiana	280,818 461,407 156,994 469,795 72,603	246,899 626,713 209,507 623,507 107,240	527,717 1,088,120 366,501 1,093,302 179,843
West North Central, total	66,314	29,091	95,405
Minnesota and Missouri	66,314	29,091	95,405
South Atlantic, total	273,815	402,792	676,607
Delaware and Maryland	176 ,1 90 97 , 625	283,985 118,807	460,175 216,432
East South Central, total	106,843	212,826	319,669
Alabama and Kentucky	106,843	212,826	319,669
West South Central, total	68,347	35,719	104,066
Oklahoma and Texas	68,347	35,719	104,066
Rocky Mountain, total	79,971	145,812	225,783
Colorado and Utah	79,971	145,812	225,783
Pacific Coast, total	109,440	65,260	174,700
California and Washington	0بلبار 109	65,260	174,700

FOREIGN TRADE 1/

According to the Bureau of the Census, exports of iron and steel scrap totaled 138,285 gross tons in November and 149,928 tons in October; exports of pig iron during November totaled 143 tons and 928 tons in October. Imports of scrap totaled 39,229 gross tons in November compared with 20,939 tons in October. Imports of pig iron totaled 18,697 gross tons in November and 21,879 tons in October. In addition to the above imports of pig iron during November there was 467 tons of sponge iron, valued at \$84,721, imported, of which 84 tons came from Canada and 383 tons from Sweden.

Table 9 - Imports of iron and steel scrap into the United States in November 1954 and year 1954 by countries (U. S. Department of Commerce)

	Novem	ber 1954	January to November 1954	
Country	Gross tons	Value	Gross tons	Value
Canada and Newfoundland Cuba	37,026 1,599 64 67 473	\$980,043 38,942 11,790 1,877 19,154	175,290 2,582 809 293 1,114 6,549	\$4,,632,235 42,327 28,393 50,015 30,135 301,380
Total	39,229	\$1,051,806	186,637	\$5,084,485

Table 10 - Exports of iron and steel scrap from the United States by countries (U. S. Department of Commerce)

	Novem	ber 1954	January to November 1954	
Country	Gross tons	Value '	Gross tons	Value
Canada	7,184	\$253,546	37,723	\$1,237,404
Italy	19,050	بلا1, با68	67,338	2,137,069
Japan	4,883	226,493	283,072	11,390,864
Mexico	16,071	483,633	188,966	5,533,371
Spain	14,509	0,600 ليلا	48,653	1,467,117
United Kingdom	8,549	243,710	91,029	2,662,827
West Germany	16,814	494.705	154,179	5,168,328
All others	51,225	1,892,103	190,459	7,000,202
Total	138,285	\$4,718,924	1,061,419	\$36,597,182

Table 11 - Exports of iron and steel scrap from the United States by grades (U. S. Department of Commerce)

	Novem	ber 1954	January to	November 1954
	Gross tons	Value	Gross tons	Value
No. 1 and No. 2 Heavy			_	
Melting Scrap	107,311	\$3,682,384	723,169	\$24,512,999
Baled sheet melting scrap	10,515	270,733	187.972	6,029,965
Borings, shovelings and	•		1	
turnings	907	27,825	13,394	357,416
Iron scrap	15,904	501,750	81,590	2,538,058
Rerolling material	512	21,590	14,260	844,001
All other scrap 2/	3,136	214,642	41,034	2,314,743
Total	138,285	\$4,718,924	1,061,419	\$36,597,182

^{1/} To conform with other data in this report foreign trade data include tin plate

scrap.

2/ Includes terms plate, tin plate, circles, cobbles strip and scroll shear butts.