



MINERAL INDUSTRY SURVEYS

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON, D. C. 20240



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Iron and Steel Scrap, Monthly

IRON AND STEEL SCRAP IN SEPTEMBER 1969

Consumption of iron and steel scrap increased 5 percent over that for August, while consumption of pig iron remained essentially unchanged, according to the Bureau of Mines, U.S. Department of the Interior. Steel production continued to follow a gradual upward trend after experiencing a seasonal low in July. Exports of ferrous scrap exceeded 1 million tons for the second consecutive month and pushed the year-to-date total to about 6.5 million tons, almost 2 million tons higher than that for the same period in 1968.

Results of a study done under a cooperative agreement between the Bureau of Mines and The Firestone Tire and Rubber Company demonstrated the technical feasibility of obtaining valuable chemicals, oil, gas, and tar from the destructive distillation of discarded automobile and truck tires. This unique and clean method of disposal and reclamation is described in Bureau of Mines R.I. 7302, Destructive Distillation of Scrap Tires.

Prepared December 29, 1969, in Mineral Resource Evaluation.

TABLE 1. - U.S. receipts, production, consumption, shipments and stocks of iron and steel scrap and pig iron, by type of manufacturer, September 1969 (Short tons)

	Mfgs. of steel ingots and castings 1/	Mfgs. of steel castings 2/	Iron foundries and miscellaneous users	Total	Total Year to date 3/
SCRAP:					
Receipts -----	2,583,618	159,513	740,902	3,484,033	32,285,181
Production -----	4,210,199	87,193	510,979	4,808,371	41,727,112
Consumption by grades:					
Carbon steel-					
Low phosphorus plate and punchings-	32,089	64,915	66,093	163,097	1,527,024
Cut structural and plate -----	29,080	16,482	77,328	122,890	1,158,322
No. 1 heavy melting steel -----	2,149,369	24,576	21,273	2,195,218	20,268,607
No. 2 heavy melting steel -----	527,814	277	19,953	548,044	4,838,944
No. 1 and electric furnace bundles-	560,033	7,074	34,495	601,602	5,636,255
No. 2 and all other bundles -----	313,942	3,508	39,256	356,706	3,210,945
Turnings and borings -----	215,346	6,528	39,176	261,050	2,217,639
Slag scrap (Fe content) -----	307,568	343	2,667	310,578	2,806,109
Shredded or fragmented -----	56,174	3,648	7,536	67,358	601,248
All other carbon steel scrap -----	1,300,037	73,563	156,544	1,530,144	13,266,846
Stainless steel -----	84,463	3,273	2,869	90,605	756,158
Alloy steel (except stainless) -----	248,104	10,594	7,698	266,396	2,464,661
Cast iron (include borings) -----	520,806	24,703	722,213	1,267,722	10,678,414
Other grades of scrap -----	39,418	11,878	41,384	92,680	788,897
Total consumption -----	6,384,243	251,362	1,238,485	7,874,090	70,220,069
Shipments -----	486,151	7,632	50,179	543,962	4,850,971
Stocks end of month -----	5,851,532	279,573	785,536	6,916,641	---
PIG IRON:					
Receipts -----	400,607	7,227	304,209	712,043	6,372,929
Production -----	7,645,292	---	---	7,645,292	69,684,186
Consumption -----	7,417,193	8,321	305,990	7,731,504	70,344,087
Shipments -----	690,985	78	198	691,261	6,069,241
Stocks end of month -----	1,590,887	17,926	219,428	1,828,241	---

1/ Includes only those castings made by companies producing steel ingots. 2/ Excludes companies that produce both steel ingots and castings. 3/ Year to date totals may not agree with a summation of prior monthly totals due to revisions after publication of monthly data.

TABLE 2. - U.S. salient iron and steel scrap and pig iron statistics,
September 1969
(Short tons)

STATE	Receipts	Production	Consumption	Shipments	Stocks end of month	Pig iron consumption
Alabama -----	146,886	170,173	290,155	26,832	211,895	346,310
Arizona -----	W	W	W	W	W	-
Arkansas -----	W	-	W	-	W	-
California -----	144,095	112,542	236,475	10,398	218,884	206,983
Colorado -----	W	W	W	-	W	W
Connecticut ---	8,796	6,261	15,101	349	13,523	1,585
Delaware -----	W	W	W	W	W	W
Florida -----	W	W	W	-	W	W
Georgia -----	W	W	W	W	W	W
Illinois -----	331,977	413,478	709,942	48,527	835,790	616,950
Indiana -----	293,408	713,704	982,960	94,123	631,908	996,003
Iowa -----	35,386	16,371	52,933	52	39,413	3,667
Kansas -----	5,209	3,733	9,324	-	4,318	253
Kentucky -----	53,590	75,430	117,393	2,775	117,279	W
Louisiana -----	W	W	W	W	W	W
Maine -----	W	W	W	-	W	W
Maryland -----	56,402	226,967	279,036	8,359	104,998	W
Massachusetts--	4,895	5,413	9,529	198	4,358	2,584
Michigan -----	381,500	397,331	779,797	37,154	437,933	583,555
Minnesota -----	18,141	15,630	25,282	2,212	78,093	W
Mississippi ---	W	W	W	-	W	-
Missouri -----	68,104	23,951	86,283	888	184,444	1,887
Montana -----	W	W	W	W	W	W
Nebraska -----	W	W	W	W	W	W
Nevada -----	W	-	W	-	W	W
New Hampshire -	W	W	W	-	W	W
New Jersey ----	40,037	10,687	55,385	1,326	65,879	5,016
New York -----	120,796	285,392	342,581	6,804	352,627	471,429
North Carolina-	13,144	6,125	19,888	-	22,487	3,173
Ohio -----	651,300	820,213	1,379,321	128,405	1,001,018	1,355,353
Oklahoma -----	20,847	4,461	19,597	-	29,479	1,219
Oregon -----	7,235	4,878	17,465	1,055	22,662	W
Pennsylvania --	613,914	1,059,494	1,519,727	141,200	1,698,632	1,953,403
Rhode Island --	6,881	4,046	11,581	156	12,000	766
South Carolina-	1,295	2,655	4,338	-	955	W
Tennessee -----	18,356	16,261	36,806	846	11,924	11,665
Texas -----	160,994	126,147	274,591	15,738	269,746	13,878
Utah -----	10,619	69,159	109,393	4,241	192,242	133,200
Vermont -----	907	711	1,939	-	2,637	607
Virginia -----	15,885	14,506	32,869	484	20,142	W
Washington ----	35,221	13,753	49,078	1,388	75,057	W
West Virginia -	62,102	83,485	148,027	-	78,287	234,043
Wisconsin -----	40,099	46,732	81,261	8,544	37,055	14,385
Undistributed--	116,012	58,682	176,035	1,908	140,976	773,590
Total U.S. ---	3,484,033	4,808,371	7,874,090	543,962	6,916,641	7,731,504

W Withheld to avoid disclosing individual company confidential data; included in Undistributed.

TABLE 3. - U. S. consumption of iron and steel scrap by grades, September 1969
(Short tons)

State	CARBON STEEL						Stainless & alloy steel	Cast iron (include borings)	Other grades of scrap including slag
	Low phos., cut struc- tural, and plate	No. 1 & 2 heavy melt- ing steel	No. 1-2 & all other bundles	Turnings & borings	Shredded or fragmentized	All other carbon steel scrap			
Alabama -----	17,901	92,083	60,849	902	71	48,859	3,161	60,057	6,272
Arizona -----	W	-	W	-	-	W	W	W	W
Arkansas -----	-	-	-	-	-	-	-	-	-
California -----	3,640	51,101	30,142	4,422	7,602	86,673	634	37,725	14,536
Colorado -----	W	W	-	W	-	-	W	W	W
Connecticut -----	4,532	767	44	-	-	712	4,688	4,115	-
Delaware -----	W	W	W	W	W	W	W	W	-
Florida -----	W	-	W	-	-	W	-	W	-
Georgia -----	W	W	W	-	-	W	-	W	-
Illinois -----	37,219	232,233	116,256	18,560	7,547	189,533	13,193	86,892	8,509
Indiana -----	11,700	476,970	99,377	44,678	-	156,397	13,259	124,206	56,373
Iowa -----	5,075	8,354	4,219	12,131	876	4,706	288	13,348	3,936
Kansas -----	4,620	-	-	-	W	W	-	1,400	W
Kentucky -----	-	60,902	11,845	4,258	-	20,442	3,933	13,060	2,953
Louisiana -----	W	-	-	-	-	W	-	-	-
Maine -----	W	-	-	-	-	-	-	W	-
Maryland -----	3,249	W	40,598	W	-	W	7,782	18,543	25,238
Massachusetts -----	1,627	57	W	W	-	582	W	6,617	W
Michigan -----	22,212	44,436	127,404	9,898	14,826	261,406	11,430	254,415	33,770
Minnesota -----	1,526	8,916	W	W	-	2,346	W	8,507	W
Mississippi -----	-	-	W	-	W	W	-	-	-
Missouri -----	1,506	57,265	W	W	W	2,677	977	11,817	1,006
Montana -----	W	W	-	-	-	-	-	W	W
Nebraska -----	W	-	-	-	-	W	-	W	W
Nevada -----	W	W	-	-	-	-	-	W	-
New Hampshire -----	-	-	-	-	-	-	-	-	-
New Jersey -----	6,064	2,039	11,524	W	W	8,359	628	23,843	571
New York -----	5,126	134,132	20,542	4,675	1,184	62,641	13,075	63,857	37,349
North Carolina -----	W	-	W	-	-	W	-	9,923	-
Ohio -----	81,638	444,181	177,731	81,197	-	224,636	101,336	207,132	61,470
Oklahoma -----	-	W	-	-	-	W	-	W	W
Oregon -----	-	W	W	-	-	W	W	W	-
Pennsylvania -----	33,002	687,210	126,273	41,789	73	216,350	167,930	152,596	94,504
Rhode Island -----	-	W	W	-	-	3,097	W	3,268	W
South Carolina -----	W	-	-	-	-	W	-	3,639	-
Tennessee -----	5,997	W	W	-	-	W	-	22,437	6,987
Texas -----	6,941	87,781	20,458	27,798	W	64,095	4,366	43,593	7,499
Utah -----	W	W	W	W	-	W	W	W	-
Vermont -----	-	W	-	-	-	W	-	W	-
Virginia -----	4,927	W	W	-	-	W	-	W	-
Washington -----	2,552	21,747	W	541	W	6,270	795	5,378	W
West Virginia -----	W	11,059	W	245	-	3,046	662	2,614	W
Wisconsin -----	21,021	900	-	1,465	-	W	282	31,339	10,944
Undistributed-----	3,912	321,129	111,046	8,491	35,179	152,007	8,582	39,675	31,341
U. S. Total ----	285,987	2,743,262	958,308	261,050	67,358	1,530,144	357,001	1,267,722	403,258

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FOREIGN TRADE

Exports of iron and steel scrap totaled 1,037,685 short tons in September compared with 1,184,729 tons in August. Exports of pig iron during September totaled 113 tons and 352 tons in August. Imports of scrap totaled 36,833 short tons in September compared with 21,075 tons in August. Of the scrap imported during September, 36,780 short tons came from Canada and 53 tons from other sources. Imports of pig iron totaled 42,437 short tons in September and 38,923 tons in August. In addition to the foregoing imports of pig iron during September there were 745 tons of sponge iron, valued at \$97,069 imported, of which 302 tons came from Canada, 443 tons from other countries.

TABLE 4. - U.S. exports of iron and steel scrap, by countries

Country	September 1969		Year to date	
	Short tons	Value	Short tons	Value
Canada -----	52,073	\$1,421,584	414,436	\$9,982,234
Hong Kong -----	224	15,513	596	160,889
Italy -----	148,945	4,594,175	705,540	20,946,572
Japan -----	433,988	14,338,293	2,960,814	85,320,245
Korea -----	43,066	1,757,125	459,482	16,064,369
Mexico -----	59,710	2,160,719	441,615	14,875,710
Spain -----	170,934	5,002,415	786,687	19,594,906
Sweden -----	24,299	1,568,322	116,700	15,594,609
Taiwan -----	24,920	737,094	73,525	2,602,768
United Kingdom -----	30,823	1,179,468	237,197	7,680,876
West Germany -----	16,845	1,035,946	34,727	3,015,811
Other Countries -----	31,858	1,076,023	247,328	9,594,824
Total -----	1,037,685	34,886,677	6,478,647	205,433,813

TABLE 5. - U.S. exports of iron and steel scrap, by grades

Grades of scrap	September 1969		Year to date	
	Short tons	Value	Short tons	Value
No. 1 heavy melting steel scrap-	419,161	\$15,077,232	2,541,639	\$81,363,344
No. 2 heavy melting steel scrap-	99,570	3,104,266	704,915	19,779,010
No. 1 bundles -----	76,944	2,570,079	374,989	11,649,426
No. 2 bundles -----	100,577	2,364,176	815,570	16,391,472
Borings, shovelings & turnings--	64,267	1,169,516	461,038	8,282,259
Iron scrap -----	67,225	2,126,792	425,051	13,319,480
Stainless steel scrap -----	4,807	1,629,711	68,888	20,493,429
All other scrap 1/ -----	205,134	6,844,905	1,086,557	34,155,393
Total -----	1,037,685	34,886,677	6,478,647	205,433,813

1/ Includes tin plate and terne plate.