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PRIMARY IRON AND STEEL

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PRIMARY IRON AND STEEL

Pig Iron - Production of pig iron in Canada amounted to 200,763 tons in March, 1954, compared with 238,572 tons in the corresponding month of last year. The total for the current month included 145,345 tons of basic iron, 28,713 tons of malleable iron and 26,705 tons of foundry iron.

Steel Ingots and Castings - Production of steel ingots and steel castings during March, 1954, totalled 249,290 tons compared with 366,974 tons in March of last year. Output in the month under review included 240,515 tons of ingots and 8,775 tons of castings.

(a) Pig Iron and Ferro-alloys

Table 1 - Production During March, 1953 and 1954

	1953		1954	
	Tonnage made (★)	Tonnage shipped	Tonnage made (★)	Tonnage shipped
	(Net tons of 2,000 pounds)			
<u>Pig iron</u> -				
Basic	195,243	5,445	145,345	1,424
Foundry	23,217	13,145	26,705	12,053
Malleable	20,112	23,025	28,713	6,529
Total pig iron	238,572	41,615	200,763	20,006
<u>Ferro-alloys</u>	17,680	14,357	Available quarterly only	

(★) Includes amounts for sale and for own use.

Table 2 - Cumulative Production and Shipments for the Three Months Ended March, 1953 and 1954

	1953		1954	
	Tonnage made (★)	Tonnage shipped	Tonnage made (★)	Tonnage shipped
	(Net tons of 2,000 pounds)			
<u>Pig iron</u> -				
Basic	566,496	11,682	475,961	6,001
Foundry	65,236	37,323	48,676	29,523
Malleable	76,628	70,661	73,175	22,516
Total pig iron	708,360	119,666	597,812	58,040
<u>Ferro-alloys</u>	49,368	43,891	23,214	21,318

(★) Includes amounts for sale and for own use.

Table 3 - Iron Blast Furnace Charges During March and Three Months Ended March, 1953 and 1954

	M a r c h		Three months ended March	
	1953	1954	1953	1954
	(Net tons of 2,000 pounds)			
Iron ore - Canadian	109,268	75,407	297,632	252,665
Imported	301,935	276,111	907,817	790,263
Mill cinder, scale, sinter, etc. ...	55,579	45,769	176,344	142,557
Limestone	85,274	72,692	240,930	224,147
Dolomite	23,026	21,317	75,842	64,508
Coke	226,085	182,301	668,198	543,569
Scrap iron and steel	7,160	5,841	23,133	15,289

Table 4 - Description of Iron Blast Furnaces at End of March, 1954

Condition of furnaces	Number of furnaces	Total annual capacity	
		Net tons	Per cent
In blast	9	2,745,000	71.9
Banked	1	266,000	6.9
Blown out	6	807,000	21.2
Total	16	3,818,000	100.0

(b) Steel Ingots and Steel Castings

Table 5 - Production and Sales During March, 1953 and 1954

	1953		1954	
	Tonnage made (★)	Tonnage shipped	Tonnage made (★)	Tonnage shipped
(Net tons of 2,000 pounds)				
<u>Steel Ingots</u>				
Open hearth - basic	310,662	20,184	208,216	307
Electric	46,228	86	32,299	...
Total steel ingots	356,890	20,270	240,515	307
Alloy steel ingots included in above	24,573	44	9,590	...
<u>Steel Castings</u>				
Open hearth - basic	2,811	2,444	2,318	2,006
Converter	48	28	9	...
Electric	7,225	5,375	6,448	5,127
Total steel castings	10,084	7,847	8,775	7,133
Alloy steel castings included in above:				
(a) High alloy, except manganese and abrasion resistant	254	230	368	334
(b) High alloy, manganese and abrasion resistant	1,242	1,017	934	870
(c) All other alloys	397	178	918	237

(★) Includes amounts for sale and for own use.

Note: High alloy castings include all castings with any alloy content of eight per cent and over.

Table 6 - Cumulative Production and Sales for the Three Months Ended March, 1953 and 1954

	1953		1954	
	Tonnage made (★)	Tonnage shipped	Tonnage made (★)	Tonnage shipped
(Net tons of 2,000 pounds)				
<u>Steel Ingots</u>				
Open hearth - basic	888,425	34,291	699,485	307
Electric	124,421	341	90,282	...
Total steel ingots	1,012,846	44,082	789,767	307
Alloy steel ingots included in above	58,776	157	36,928	...
<u>Steel Castings</u>				
Open hearth - basic	7,625	6,463	6,728	5,847
Converter	151	100	9	...
Electric	19,063	14,265	18,597	14,435
Total steel castings	26,839	20,828	25,334	20,282
Alloy steel castings included in above:				
(a) High alloy, except manganese and abrasion resistant	283	202	994	890
(b) High alloy, manganese and abrasion resistant	3,408	2,859	2,269	2,134
(c) All other alloys	2,638	597	2,613	596

(★) Includes amounts for sale and for own use.

Note: High alloy castings include all castings with any alloy content of eight per cent and over.

Table 7 - Pig Iron and Scrap Charged to Steel Furnaces, March, 1953 and 1954, and Three Months Ended March, 1954

	March 1953	March 1954	Three months ended March, 1954
	(Net tons of 2,000 pounds)		
Pig iron	195,817	133,608	455,916
Scrap - Own make	99,038	81,954	264,877
Purchased	109,912	49,545	148,569

Table 8 - Steel Furnace Capacity at Thirty-First of October, 1953

	Annual capacity
	(Net tons of 2,000 pounds)
Ingots - Basic open hearth	3,951,300
Electric	714,400
Total ingots	4,665,700
Steel castings	313,900
Total ingots and castings.	4,979,600

Table 9 - Monthly Production of Pig Iron, Ferro-alloys and Steel, 1953 and 1954

Month	Pig iron	Ferro- alloys	S t e e l		Total steel
			Ingots(★)	Castings	
			(Net tons of 2,000 pounds)		
1953					
January	244,606	15,671	339,215	7,433	346,648
February	225,182	16,017	316,741	9,322	326,063
March	238,572	17,680	356,890	10,084	366,974
Total three months .	708,360	49,368	1,012,846	26,839	1,039,685
April	241,583	15,980	351,907	10,384	362,291
May	271,461	13,148	358,896	10,071	368,967
June	266,180	11,997	342,629	9,834	352,463
July	272,958	12,124	315,203	8,182	323,385
August	267,249	11,416	331,678	7,025	338,703
September	243,963	10,483	321,332	8,012	329,344
October	265,346	8,522	354,480	8,018	362,498
November	254,643	8,777	324,497	8,206	332,703
December	220,526	8,779	296,345	9,085	305,430
Total	3,012,269	150,595	4,009,813	105,656	4,115,469
1954					
January	214,999	(x)	290,487	8,413	298,900
February	182,050	(x)	258,765	8,146	266,911
March	200,763	(x)	240,515	8,775	249,290
Total three months .	597,812	23,214	789,767	25,334	815,101

(★) Revised.

(x) Available only on a quarterly basis in 1954.

Primary steel shapes - Shipments of primary shapes by Canadian steel mills, exclusive of producers' interchange, totalled 229,400 net tons in March, 1954, compared with 312,899 tons in March, 1953. The March, 1954, shipments included 3,080 tons of semi-finished shapes, 14,898 tons of structurals, 16,556 tons of plates, 27,567 tons of rails, 11,428 tons of tie plates and track material, 36,249 tons of hot rolled bars, 13,994 tons of pipes and tubes, 22,450 tons of wire rods, 27,196 tons of black sheets, 8,111 tons of galvanized sheets, 8,856 tons of castings, and 39,015 tons of other rolled products. The amount of producers' interchange was 101,338 tons in March, 1954, as against 115,808 tons in March, 1953.

Of the amounts shipped for sale during March, 58,607 tons went direct to railways and railway car shops; 12,093 tons went to pressing, forming and stamping plants; 30,867 tons to merchant trade products; 26,552 tons to building construction; 21,441 tons to the containers industry; 6,352 tons to agricultural equipment; 14,811 tons to the automotive industry; 12,516 tons to machinery plants; 1,559 tons to shipbuilding; 9,431 tons to mining, lumbering, etc., and 6,211 tons to miscellaneous industries, including national defence and public works and utilities; wholesalers and warehousing accounted for 26,604 tons, and exports for 2,356 tons. Producers' interchange, or the tonnage shipped to producers' own works for further processing, totalled 101,338 tons in March, 1954.

Table 10 - Production and Producers' Shipments of Primary Iron and Steel Shapes, March, 1954

	<u>P r o d u c t i o n</u> (Including producers' interchange)	<u>S h i p m e n t s</u> For sale	Producers' interchange
	(Tons of 2,000 pounds)		
<u>Carbon Steel</u>			
Billets, etc., for forging	4,111	2,161	2,940
Other semi-finished shapes, not for re-rolling by makers	12,229	183	10,526
Structural shapes and piling	13,939	14,898	...
Plates	16,613	16,556	...
Rails	24,756	27,567	...
Tie plates and track material: Splice bars ..	1,645	1,587	...
Tie plates ..	8,685	8,408	...
Spikes	1,399	1,433	...
Concrete reinforcing bars	12,196	9,848	...
Hot rolled bars for cold finishing	801	...	803
Other hot rolled bars	40,860	30,987	10,281
Pipes and tubes	8,481	13,994	...
Wire rods	23,287	22,363	127
Hot rolled black sheets	56,544	13,841	48,215
Cold reduced black sheets	17,876	13,355	5,726
Galvanized sheets	9,204	8,111	...
Steel castings	6,373	6,841	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, cold reduced strip, axles, etc.)	57,338	28,310	22,717
Total carbon steel	316,337	220,443	101,335
<u>Alloy Steel</u>			
Billets, etc., for forging	440	736	...
Other semi-finished shapes, not for re-rolling by makers	3	...	3
Plates	26	...	...
Hot rolled bars for cold finishing .....	...	...	...
Other hot rolled bars	4,464	5,262	...
Wire rods	90	87	...
Steel castings	2,207	2,015	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, stainless steel, cold reduced strip, axles, etc.)	796	857	...
Total alloy steel	8,026	8,957	3

Table 11 - Production and Producers' Shipments of Primary Iron and Steel Shapes, Three Months Ended March, 1954

	<u>P r o d u c t i o n</u> (Including producers' interchange)	<u>S h i p m e n t s</u> For Producers' sale interchange	
	(Tons of 2,000 pounds)		
<u>Carbon Steel</u>			
Billets, etc., for forging	15,490	9,450	7,533
Other semi-finished shapes, not for re-rolling by makers	43,171	384	35,553
Structural shapes and piling	39,508	42,195	...
Plates	52,662	51,922	18
Rails	83,280	80,670	...
Tie plates and track material: Splice bars	3,655	4,095	...
Tie plates	16,096	15,555	...
Spikes ...	3,321	3,792	...
Concrete reinforcing bars	29,988	25,723	...
Hot rolled bars for cold finishing	1,773	...	1,771
Other hot rolled bars	116,195	86,017	24,866
Pipes and tubes	32,564	38,847	8
Wire rods	58,643	56,322	172
Hot rolled black sheets	196,002	54,015	145,822
Cold reduced black sheets	62,126	46,245	15,962
Galvanized sheets	25,334	24,957	...
Steel castings	18,950	19,733	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, cold reduced strip, axles, etc.)	163,617	87,660	69,899
Total carbon steel	962,375	647,582	301,604
<u>Alloy Steel</u>			
Billets, etc., for forging	1,527	1,546	...
Other semi-finished shapes, not for re-rolling by makers	435	...	435
Plates	272	249	...
Hot rolled bars for cold finishing .....	...	...	...
Other hot rolled bars	16,488	16,464	66
Wire rods	226	245	...
Steel castings	5,937	5,600	...
All other products (includes tool steel, cold finished bars, tin mill black plate, tin plate, stainless steel, cold reduced strip, axles, etc.)	2,484	2,490	...
Total alloy steel	27,369	26,594	501

Note: Figures shown under "Producers' interchange" represent the amounts shipped to producers' own plants or to other plants within the primary industry, for further processing, e.g., black sheets to galvanizing department, hot rolled bars to make railway track material, etc.

	March, 1954		Year to date	
	Carbon steel	Alloy steel	Carbon steel	Alloy steel
	(Tons of 2,000 pounds)			
Automotive industries	9,524	5,287	31,862	16,419
Agricultural, including farm machinery	6,278	74	14,746	249
Building construction	26,514	38	83,006	147
Containers industry	21,437	4	66,813	98
Machinery and tools	11,668	848	37,770	2,075
Merchant trade products	30,618	249	77,819	728
Mining, lumbering, etc.	8,419	1,012	23,274	2,527
National defence	3,440	411	8,541	1,103
Pressing, forming and stamping	11,943	150	40,517	350
Public works and utilities	951	44	2,881	95
Railway operating	42,163	106	112,773	301
Railway cars and locomotives	16,141	197	49,063	730
Shipbuilding	1,510	49	5,561	143
Miscellaneous and unclassified	1,236	129	3,204	352
Wholesalers and warehouses	26,544	60	83,956	205
Direct export (a) to British Empire ..	357	24	700	126
(b) to other countries ..	1,700	275	5,096	946
Total shipped for sale	220,443	8,957	647,582	26,594
Producers' interchange	101,335	3	301,604	501

Commodity	Country of origin	March, 1954			Year to date		
		Carbon	Alloy	Stainless	Carbon	Alloy	Stainless
(Tons of 2,000 pounds)							
Pig iron -							
Basic	United States	...	...	...	59	...	...
Malleable	United States	...	...	...	228	...	...
Silvery	United States	410	...	...	854	...	...
Foundry	United States	73	...	...	614	...	...
	Australia	...	...	...	335	...	...
Ingot	United States	24	214	...	309	266	...
Billets, blooms, slabs and sheet bars	United States	...	101	...	156	108	...
	United Kingdom	...	6	...	...	21	...
Tube rounds and tube billets	United States	56	...	...	56	...	...
Bars and sections -							
Hot rolled, n.o.p.	United States	1,896	312	18.9	6,111	1,204	38.9
	United Kingdom	26	24	14.6	93	61	43.1
	Belgium	799	...	...	1,479	...	...
	Austria	...	...	...	...	18	...
	France	...	...	...	13	...	...
Hot rolled -							
For agricultural implements	United States	127	...	...	636	...	...
Rounds over 4-7/8", squares over 4"	United States	91	1	...	508	10	...
	United Kingdom	13	...	...	25	5	...
Angles, channels, etc.	United States	504	...	3.6	1,850	...	8.6
	United Kingdom	1	...	...	56	...	...
	Belgium	489	...	...	681	...	...
	Germany	12	...	...	24	...	...
	France	...	...	...	7	...	...
Structurals (bar sizes) for agricultural implements	United States	...	...	...	43	...	...

Table 13 - Imports of Primary Forms of Iron and Steel, March, 1954 and Year to Date (Continued)

Commodity	Country of origin	March, 1954			Year to date		
		Carbon	Alloy	Stain- less	Carbon	Alloy	Stain- less
(Tons of 2,000 pounds)							
Bars and sections (concluded) -							
Hot rolled (concluded) -							
Sash or casement sections	United States	409	...	...	814	...	...
	United Kingdom	...	...	...	38	...	...
	Belgium	16	...	...	71	...	...
Cold finished, n.o.p.	United States	460	39	7.4	1,441	108	35.7
	United Kingdom	53	...	20.4	233	5	23.0
	Belgium	...	...	...	91	...	...
	Sweden	...	...	...	...	71	...
	France	400	...	...	400	...	...
Cold finished, for agricultural implements.	United States	86	...	...	251	...	...
Tool steel	United States	6	48	...	15	135	...
	United Kingdom	15	37	...	59	212	...
Structurals	United States	30,211	...	...	85,900	...	...
	United Kingdom	182	...	...	924	...	...
	Belgium	1,025	...	...	3,760	...	...
	France	...	...	...	2,907	...	...
	Germany	...	...	...	176	...	...
Plates -							
78" and under in width	United States	2,320	4	52.7	9,445	86	121.8
	United Kingdom	779	...	11.4	3,631	...	31.0
	Japan	129	...	...	1,210	...	...
	Belgium	11	...	...	22	...	...
Over 78" and under 100" in width	United States	3,579	...	20.3	10,212	...	27.9
	United Kingdom	918	...	...	5,415	...	...
100" in width and over	United States	330	...	...	1,164	...	44.4
	United Kingdom	32	...	...	298	...	...
Flanged, dished or curved	United States	57	...	...	141	...	...
Boiler, pulp-mill digesters	United States	153	...	...	949	...	...
Chequered or surface pattern	United States	863	...	...	2,055	...	...
Sheets -							
Silicon .075 or more	United States	...	1,298	...	...	3,683	...
Galvanized	United States	1,424	...	...	5,774	...	...
	United Kingdom	6	...	...	357	...	...
Hot rolled -							
18 gauge and heavier	United States	4,145	4	10.9	16,176	40	15.9
	United Kingdom	31	...	11.8	649	...	57.7
	Sweden	...	...	...	...	...	11.8
Lighter than 18 gauge	United States	...	1	...	...	4	3.3
	United Kingdom	...	...	...	...	...	1.2
Cold rolled -							
18 gauge and heavier	United States	828	...	87.1	2,844	...	255.4
	United Kingdom	81	...	74.2	204	...	233.6
Lighter than 18 gauge	United States	1,106	...	126.6	4,935	...	231.7
	United Kingdom	331	...	7.3	616	...	66.9
	Sweden	...	...	...	...	...	5.3
Corrugated	United States	401	...	...	1,037	...	...
	United Kingdom	9	...	...	13	...	...
Coated with paint, tar, asphaltum, etc. ..	United States	52	...	...	271	...	...
For saws	United States	...	12	...	...	205	...
	United Kingdom	...	1	...	...	6	...
For hollow ware (vitreous enamel)	United States	705	...	...	2,719	...	...
	United Kingdom	135	...	...	299	...	...
For motor vehicles	United States	1,731	...	...	7,267	...	...
For heating apparatus	United States	56	...	...	75	...	...
For tubes	United States	...	...	...	77	...	...
Tin plate - Primes	United Kingdom	...	...	...	26	...	...
Electrolytic - 25# coating ...	United States	73	...	...	73	...	...
Terne plate - Long	United States	376	...	...	1,160	...	...
Short	United States	444	...	...	785	...	...

Table 13 - Imports of Primary Forms of Iron and Steel, March, 1954 and Year to Date (Continued)

Commodity	Country of origin	March, 1954			Year to date			
		Carbon	Alloy	Stain- less	Carbon	Alloy	Stain- less	
		(Tons of 2,000 pounds)						
Strip -								
Hot rolled -								
18 gauge and heavier	United States	719	30	...	1,617	42	...	
	United Kingdom	...	...	...	36	...	...
Lighter than 18 gauge	United States	131	...	...	211	...	...
Cold rolled -								
18 gauge and heavier	United States	116	10	14.0	526	55	51.8	
	United Kingdom	11	...	...	28	...	...
Lighter than 18 gauge	United States	174	44	182.1	639	59	517.0	
	United Kingdom	1	...	...	47	...	...
	Sweden	...	7	...	...	12	...
For cold rolling	United States	32	...	...	43	...	...
For saws	United States	...	13	...	...	89	...
	United Kingdom	...	1	...	...	3	...
	Sweden	...	13	...	...	30	...
For tubes	United States	142	...	...	200	...	...
For tubular products	United States	17	...	...	17	...	...
For motor vehicles	United States	1,510	...	...	5,270	...	...
For hoops	United States	166	...	...	248	...	...
	United Kingdom	...	...	...	61	...	...
For shoe and corset laces, etc. .	United States	5	...	...	5	...	...
Coated with paint, tar, asphaltum, etc.	United States	709	...	...	1,516	...	...
	Germany	1	...	...	3	...	...
Silicon .075 or more	United States	...	486	...	...	1,378	...
For butt hinges	United States	23	...	...	231	...	...
Galvanized	United States	366	...	...	980	...	...
	United Kingdom	3	...	...	143	...	...
	Belgium	...	...	...	6	...	...
Skelp -								
15-3/8" and under in width	United States	4,124	...	...	16,245	...	...
Over 15-3/8" in width	United States	700	...	...	1,543	...	...
Pipes and tubes -								
Cast	United States	55	...	...	472	...	...
	United Kingdom	628	...	...	2,331	...	...
	Germany	...	...	...	37	...	...
Repair of pressure parts of boilers -								
Hot finished	United States	182	...	30.6	865	13	131.2	
	United Kingdom	202	...	...	438	...	...
	Switzerland	23	...	...	43	...	...
Cold drawn	United States	6	1	...	48	1	...	
	United Kingdom	34	...	...	65	...	...
	Sweden	9	...	...	11	...	...
Welded	United States	243	...	.1	951	4	.1
	United Kingdom	66	...	...	133	...	...
Seamless, 12" and under in diameter -								
Cold drawn	United States	411	632	9.8	970	1,415	25.6	
	United Kingdom	93	1	17.3	339	3	45.5	
	Sweden	3	...	2.2	4	24	2.2	
Hot finished	United States	697	7	5.2	2,036	38	11.1	
	United Kingdom	61	...	...	1,453	...	...
	Germany	82	...	...	82	...	...
Seamless, over 12" in diameter -								
Hot finished	United States	209	...	...	906	14	...
	United Kingdom	...	...	...	4,083	...	...
Welded, 4" and under in diameter	United States	781	...	4.1	1,874	...	6.8	
	United Kingdom	132	...	...	657	...	...
	France	...	...	...	59	...	...
	Germany	31	...	...	118	...	...
	Holland	...	...	...	7	...	...

Table 13 - Imports of Primary Forms of Iron and Steel, March, 1954 and Year to Date (Concluded)

Commodity	Country of origin	March, 1954			Year to date		
		Carbon	Alloy	Stain- less	Carbon	Alloy	Stain- less
		(Tons of 2,000 pounds)					
Pipes and tubes (concluded) -							
Seamless, over 12" in diameter (concluded) -							
Welded 4" and under in diameter	Belgium	18	...	...	18	...	...
Welded, over 4" in diameter	United States	349	...	.7	773	...	9.7
	United Kingdom	49	...	...	105	...	...
Tubing -							
Not over 1/2" diameter, welded and coated	United States	32	...	...	97	...	...
Spiral welded	United States	1,009	...	...	1,292	...	...
Conduit	United States	416	...	...	1,223	...	...
Casings	United States	3,682	...	...	10,770	...	...
	United Kingdom	65	...	...	4,253	...	...
	Germany	83	...	...	486	...	...
	Italy	...	...	...	572	...	...
Wire rope							
	United States	29	...	...	80	...	...
	United Kingdom	80	...	...	233	...	...
	Germany	2	...	...	12	...	...
	Belgium	2	...	...	4	...	...
	Holland	44	...	...	47	...	...
Wire for rope	United States	150	...	.6	497	...	.6
	United Kingdom	304	...	...	1,453	...	...
Wire - For springs, cushions, mattresses, etc.							
For corset clasps, dress stays, etc.	United States	154	...	...	603	...	...
Wire - Coated or covered	United States	1	...	...	29	...	...
	United States	14	...	...	20	...	...
	United Kingdom	28	...	...	69	...	...
	Belgium	...	...	...	1	...	...
	Germany	2	...	...	2	...	...
Wire - All other	United States	59	38	.9	388	47	2.5
	United Kingdom	46	...	.2	124	...	.2
	Belgium	22	...	...	33	...	...
	Germany	...	...	...	2	...	...
	Sweden	...	1	...	...	1	.6
Wire rods, not over 3/8" in diameter	United States	87	...	...	316	...	...
	United Kingdom	14	...	...	838	...	...
Welding wire and welding rods	United States	123	62	...	136	285	...
Tires - For railway rolling stock							
Wheels - For railway rolling stock	United States	1	...	...	6	...	...
	United States	7	...	...	7	...	...
	United Kingdom	628	...	...	1,995	...	...
Rails -							
60 lb. and under	United States	...	...	...	93	...	...
	Belgium	80	...	...	187	...	...
Over 60 lb. and including 100 lb.	United States	1,081	...	...	1,103	...	...
Over 100 lb.	United States	...	...	...	950	...	...
	Belgium	26	...	...	26	...	...
Track material -							
Fish plates, angle bars, etc.	United States	672	...	...	839	...	...
	United Kingdom	225	...	...	606	...	...
	Belgium	2	...	...	5	...	...
Switch points, etc.	United States	59	...	...	62	...	...
Total imports	United States	72,439	3,357	575.6	223,701	9,289	1,540.0
	All other	8,593	91	159.4	45,367	472	522.1
TOTAL ★		81,032	3,448	735.0	269,068	9,761	2,062.1

* These totals are not strictly comparable with those of previous years since the categories, "Castings" and "Forgings" have been dropped from this year's totals.



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Table 14 - Exports of Primary Iron and Steel, March, 1954 and Year to Date

	March, 1954	Year to date
	(Tons of 2,000 pounds)	
Pig iron	40	194
Ingots, blooms and billets	185	525
Bars	345	1,117
Rods .....	...	...
Plates, etc.	2,348	6,578
Rails	1,141	1,141
Structural shapes	80	270
Pipe and tubing - Wrought iron	79	115
Cast iron	14	35
Galvanized .....	...	...
Other	95	119
Castings, iron and steel	1,677	4,262
Forgings	364	1,062
Total	6,368	15,418
