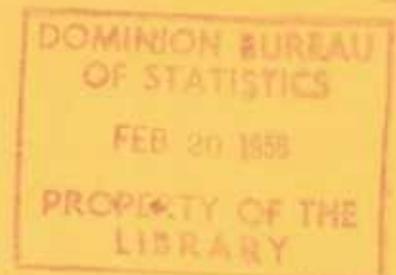


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THE PRIMARY IRON AND STEEL INDUSTRY
1954



DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section



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Published by Authority of
The Right Honourable C. D. Howe, Minister of Trade and Commerce

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: Volume I—The Primary Industries, including mining, forestry and fisheries; Volume II—Manufacturing; Volume III—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textile Mills
- VIII—Knitting Mills
- IX—Clothing
- X—Wood and Paper Products
- XI—Printing Trades
- XII—Iron and Steel Products
- XIII—Transportation Equipment
- XIV—Non-ferrous Metal Products
- XV—Electrical Apparatus and Supplies
- XVI—Non-metallic Mineral Products
- XVII—Products of Petroleum and Coal
- XVIII—Chemicals and Allied Products
- XIX—Miscellaneous Manufactures

The present report belongs in Part XII, Iron and Steel Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Agricultural Implements Industry, 25¢
- C—The Boilers and Plate Work Industry, 25¢
- D—The Bridge Building and Structural Steel Industry, 25¢
- E—The Hardware, Tools and Cutlery Industry, 25¢
- F—The Heating and Cooking Apparatus Industry, 25¢
- G—The Machinery Industry, 25¢
- H—The Machine Shops Industry, 25¢
- I—The Iron Castings Industry, 25¢
- J—The Primary Iron and Steel Industry, 25¢
- K—The Sheet Metal Products Industry, 25¢
- L—The Wire and Wire Goods Industry, 25¢
- M—The Miscellaneous Iron and Steel Products Industry, 25¢

THE PRIMARY IRON AND STEEL INDUSTRY

1954

Statistics for the Primary Iron and Steel Industry include data for all establishments in Canada which were engaged chiefly in the manufacture of (a) pig iron, (b) ferro-alloys, (c) steel ingots and steel castings, (d) hot-rolled iron and steel products, (e) cold-drawn steel bars, strips and shapes. Forty-nine firms were included in this industry in 1954, and reports were received from 63 different plants or departments, including 5 blast furnace departments, 4 ferro-alloy plants, 39 steel furnace divisions and 15 rolling or drawing mills. Separate reports were received for blast furnace departments, for steel furnace divisions and rolling mills, even when all three were units of a single works.

Factory sales of pig iron, ferro-alloys, steel ingots and castings and finished rolled products were 16.5 per cent lower in value in 1954 than in 1953, the totals being \$383,154,196 and \$458,904,255 respectively. Nineteen plants in Ontario (comprising 27 separate plants or departments) accounted for 77.3 per cent of the total for Canada, or \$295,911,606; 15 plants in Quebec (comprising 16 separate plants or departments) accounted for 10.8 per cent, or \$41,547,393; 3 plants in Nova Scotia (comprising 5 separate plants or departments) for 8.4 per cent, or \$32,270,425 while the remaining \$13,424,772, or 3.5 per cent, was accounted for by 14 plants in Manitoba, Alberta and British Columbia (comprising 15 separate plants or departments).

In 1954 a total of 28,861 people was employed in this industry, a decline of 17.4 per cent from the 1953 total of 34,956. Seventy per cent of the employees, or 20,166, worked in plants in Ontario, 3,925 in Nova Scotia, 3,509 in Quebec, 772 in Manitoba and 489 in Alberta and British Columbia. Payments in salaries and wages during 1954 amounted to \$108,817,430, a decline of 16.1 per cent from the previous year's total of \$129,709,556. Most of the decline was accounted for by wages which fell to \$87,349,858 from \$109,472,055. Salaries advanced to \$21,467,572 from \$20,237,501.

Materials used in manufacturing processes cost \$145,110,350 in 1954 compared with \$212,374,287 in 1953, and the cost of fuel and electricity was \$23,730,461 as against \$29,572,323, a 30.2 per cent decline in the expenditures for materials, fuel and power.

PIG IRON

Output of 2,211,029 net tons of pig iron in 1954 was 26.4 per cent less than the 3,012,268 tons reported for the previous year. Production of basic iron amounted to 1,740,712 tons or 78.7 per cent of the total; foundry iron amounted to 167,797 tons and malleable iron to 302,520 tons.

Producers' sales of pig iron totalled 455,552 tons at \$22,142,040 compared with 626,624 tons at \$31,510,562 in 1953.

Charges to iron blast furnaces during the year included 2,961,282 tons of imported iron ore, 787,827 tons of Canadian ore, 1,969,669 tons of coke and 778,200 tons of limestone.

Imports of pig iron during the calendar year declined to 20,009 from the 25,484 tons in 1953, and exports declined to 202,603 tons from 345,415 tons.

Producers' stocks of pig iron at the end of 1954 totalled 127,894 tons compared with 135,781 tons at the end of the previous year.

The apparent consumption of pig iron in Canada, as calculated by deducting the exports from the sum of the production and imports, and allowing for changes in producers' stocks, amounted to 2,036,322 tons in 1954, or about 22.1 per cent less than in 1953 when the apparent domestic supply was 2,615,515 tons.

Producers of pig iron in Canada had 16 blast furnaces at the end of 1954 which could produce 3.87 million net tons if operated at rated capacity. Actual production of 2,211,029 net tons in 1954 showed an operating rate of about 57 per cent. Ten furnaces were in blast at year-end.

FERRO-ALLOYS

Ferro-alloys were made in 1954 by 10 establishments, 5 of which recovered ferrosilicon as a by-product in the manufacture of abrasives. Output of ferro-alloys in 1954 amounted to 116,141 tons, a decline of about 24.4 per cent from the 153,660 tons reported in 1953.

Altogether, ferrosilicon was made in nine different plants, ferrochrome-silicon in two, ferrochrome in two, ferromanganese in two and silicomanganese in two. Other ferro-alloys produced by one firm only included spiegeleisen and ferrophosphorus.

STEEL INGOTS AND CASTINGS

Steel production declined about 22.4 per cent to 3,195,030 tons in 1954 from 4,116,068 tons in 1953, the output of steel ingots dropping to 3,113,791 tons from 4,009,548, while castings production declined to 81,239 tons from 106,520 tons. Factory sales of ingots and castings totalled 86,066 tons at \$35,434,713.

Thirty-nine steel plants were in operation during the year. At the end of 1954 these plants had 128 furnaces, including 42 basic open-hearth furnaces with an annual rated capacity of 3,862,200 tons, 82 electric furnaces rated at 987,675 tons and 2 converters at 4,800 tons. Also included in the total were two oxygen vessels or converters of the Linz-Donawitz type with a combined capacity of 350,000 tons. Two 25-ton Bessemer converters rated at 120,000 tons annually, used for duplexing, also were in operation during the year.

Operating steel furnaces in 1954 used 1,767,307 net tons of pig iron, 1,629,866 tons of scrap iron or steel, 203,119 tons of iron ore, 182,972 tons of limestone, 135,987 tons of dolomite, 81,443 tons of lime, 73,918 tons of silica sand, 9,940 tons of magnesite and 41,533 tons of ferro-alloys.

ROLLED AND DRAWN STEEL

In 1954 there were 12 mills occupied chiefly in hot rolling of steel products and 3 mills making only cold-drawn and cold-rolled shapes. Nine of these mills were in Ontario, 2 in Nova Scotia, 2 in Quebec, 1 in Manitoba and 1 in British Columbia.

Rolling mill sales declined 12.6 per cent to \$301,925,589 from \$345,490,910 in 1953. The main items sold during the year under review were 445,519 tons of hot-rolled bars at \$56,525,130; 201,524 tons of plates at \$20,568,611; 283,297 tons of rails and rail fastenings at \$27,120,019; 150,917 tons of semi-finished forms, such as blooms, billets, etc., at \$12,748,936; 180,144 tons of structural shapes at \$18,954,742; 274,870 tons of wire rods at \$26,848,014 (see footnote 2); 28,829 tons of cold-reduced bars at \$7,716,957; and other rolled products, including hot and cold-rolled sheets and strip, skelp, sheet piling, tin plate, galvanized sheets, etc., totalling 900,484 tons at \$123,657,278.

Note: There were three major changes in concept affecting the data for this industry in 1954. The first one involved a change in the method of counting establishments; the second concerned a change in valuing shipments of wire rods transferred to makers' own processing plants while the third concerned the method for calculating "value added". These three changes are reviewed in the footnotes below.

1. Prior to 1954, blast furnace departments, steel furnace divisions and rolling mills which were units of a single works filed separate reports and these departments were counted individually as establishments. These units continued to file separate reports in 1954 but the method of counting establishments was changed so that the separate operations or units at a single works were collectively considered as one establishment. On this account, the number of establishments shown in Table 2 is less than in previous years.

2. Prior to 1954, shipments of wire rods transferred to makers' own fabricating plants were considered as "Shipments for own use" and, therefore, not included in "Factory Sales". For the most part these shipments were made to makers' fabricating plants which are classified to the Wire and Wire Goods Industry. The normal practice for statistical purposes has been to consider shipments of this kind from one industry group to another as part of the total sales of the producing industry and as materials by the consuming industry. The treatment of wire rods constituted an exception which has affected the calculation of "value added" for these two industries. Therefore, in order to bring the treatment of wire rods in line with usual statistical procedures, producers in 1954 were asked to consider the sales of wire rods to own fabricating plants as "Factory Sales". For this reason the value of products shown in this bulletin for the year under review in Tables 2, 31 and 39 is higher by the value applied to these shipments. In 1954 the value of these shipments is estimated to be about \$16,000,000.

3. Figures for value added by manufacture shown in Table 2 prior to 1953 were obtained by subtracting the cost of materials used, including fuel and electricity, from the gross selling value of products. In 1954, information not previously available on the value of year-end inventory holdings at plant and plant warehouses was taken into account in calculating the value added figure.

TABLE 1. Provincial Distribution of Active Plants in the Primary Iron and Steel Industry, 1954

Province	Number of firms	Pig iron		Steel ingots and castings		Rolling and drawing mills	Ferro- alloys ¹
		Number of plants	Number of blast furnaces	Number of plants	Number of steel furnaces		
Nova Scotia	3	1	3	2	8	2	-
Quebec	15	-	-	12	24	2	2
Ontario	19	4	13	12	77	9	2
Manitoba	3	-	-	3	5	1	-
Alberta	2	-	-	2	2	-	-
British Columbia	9	-	-	8	12	1	-
Canada	51 ²	5	16	39	128	15	4

1. Not including artificial abrasive plants which made ferrosilicon as a by-product.

2. Only 49 separate firms were included in this industry in 1954; however, two of these operated plants in both Ontario and Quebec.

TABLE 2. Principal Statistics of the Primary Iron and Steel Industry, Significant Years 1929-1954 and by Provinces, 1953 and 1954

Year and province	Establish- ments	Employees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ³	Gross selling value of products at works
	No.	No.	\$	\$	\$	\$	\$
1929	45	11,218	18,534,681	6,691,961	32,514,596	33,025,438	72,231,995
1933	50	5,200	6,049,189	2,699,837	7,598,931	8,193,781	18,492,549
1937	55	14,054	19,926,498	6,934,008	33,805,631	33,841,030	74,580,669
1939	54	13,827	20,410,517	6,069,661	29,629,376	40,235,444	75,934,481
1942	61	33,245	60,874,818	18,734,178	110,551,516	102,820,061	232,105,755
1945	63	29,378	57,862,489	16,002,441	86,417,375	89,859,343	192,279,159
1949	55	29,097	82,958,229	22,352,965	147,229,391	136,152,628	305,734,984
1950	55	29,051	85,411,927	26,714,750	159,282,919	154,542,373	340,540,042
1951	57	33,393	108,561,802	32,103,307	223,011,814	209,472,365	464,587,486
1952	58	35,001	124,387,290	31,421,918	239,001,158	233,577,318	504,000,394
1953							
Nova Scotia	5	4,916	15,681,950	3,441,967	23,742,464	13,761,489	40,945,920
Quebec	16	4,157	14,801,522	2,691,867	21,252,723	25,901,830	49,846,420
Ontario	26	24,383	93,900,808	22,528,785	162,583,778	167,295,716	352,408,279
Manitoba	4	980	3,365,384	591,106	2,815,466	6,594,524	10,001,096
Alberta	2	520	1,959,892	318,598	1,979,856	3,404,086	5,702,540
British Columbia	9						
Canada	62	34,956	129,709,556	29,572,323	212,374,287	216,957,645	458,904,255
1954							
Nova Scotia	3	3,925	12,728,959	2,886,877	15,675,929	14,486,619	32,270,425
Quebec	15	3,509	12,964,736	2,342,121	13,960,444	25,464,423	41,547,393
Ontario	19	20,166	78,534,762	17,707,713	111,559,518	168,894,479	295,911,606
Manitoba	3	772	2,779,322	446,152	2,285,937	5,057,712	8,042,155
Alberta	2	489	1,809,651	347,598	1,628,522	3,483,952	5,382,617
British Columbia	9						
Canada	51 ¹	28,861	108,817,430	23,730,461	145,110,350	217,487,183	383,154,196 ²

1. See footnote 1 of introductory text.

2. See footnote 2 of introductory text.

3. See footnote 3 of introductory text.

IRON AND STEEL PRODUCTS

TABLE 3. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Nova Scotia	8,838,000	3,341,000	864,000	13,043,000
Quebec	4,845,477	2,368,074	2,118,051	9,331,602
Ontario	45,974,329	16,154,944	19,004,402	81,133,675
Manitoba	2,438,015	668,734	348,734	3,455,483
Alberta and British Columbia	649,645	298,736	264,736	1,213,117
Canada	62,745,466	22,831,488	22,599,923	108,176,877
Closing:				
Nova Scotia	7,454,000	2,865,000	1,643,000	11,962,000
Quebec	3,272,378	1,423,617	2,437,646	7,133,641
Ontario	33,413,338	14,677,587	21,254,506	69,345,431
Manitoba	1,765,152	364,557	96,380	2,226,089
Alberta and British Columbia	565,418	282,707	342,191	1,190,316
Canada	46,470,286	19,613,468	25,773,723	91,857,477

1. (a) Book value of all manufacturing inventories held at plant and plant warehouses.

(b) Data in above table were developed from returns filed by establishments which in 1954 accounted for about 95 per cent of the total value of production. The figures have been expanded to 100 per cent.

(a) PIG IRON

TABLE 4. Production of Pig Iron and Sales by Producers, 1953 and 1954

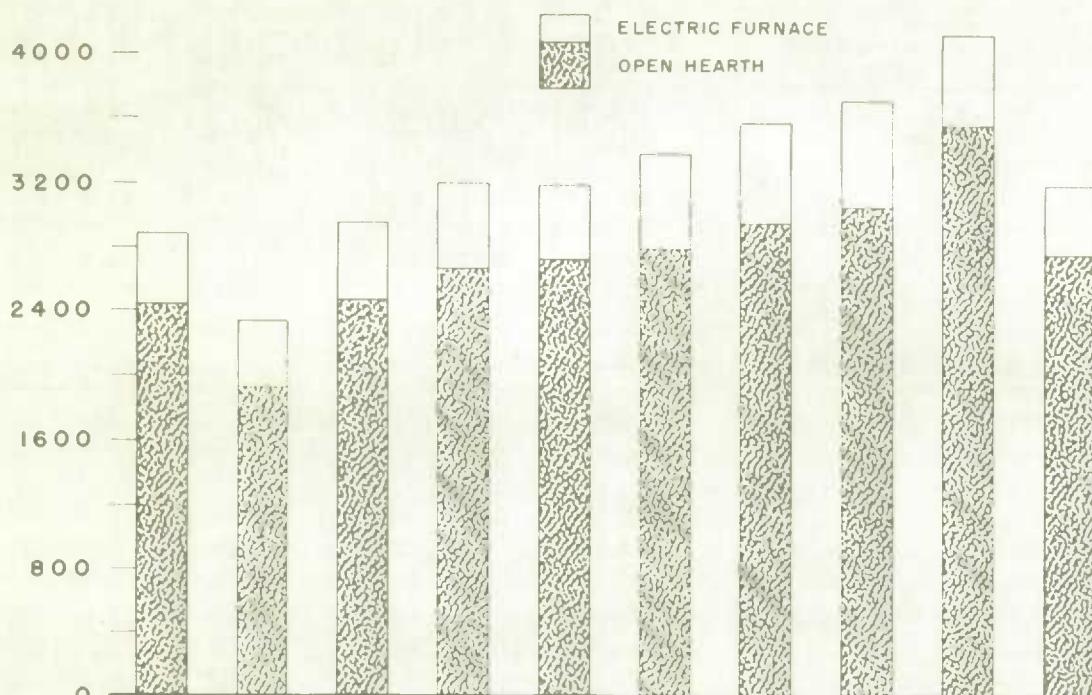
Grade	Delivered in molten condition	Machine- cast	Total tonnage made	Sales	
				Quantity	Income from sales
Net tons					
1953					\$
Basic	2,130,307	306,197	2,436,504	101,522	4,983,916
Foundry ¹	600	182,221	182,821	160,568	8,034,611
Malleable	3,895	389,048	392,943	364,534	18,492,035
Total.....	2,134,802	877,466	3,012,268	626,624	31,510,562
1954					
Basic	1,581,093	159,619	1,740,712	25,045	1,185,667
Foundry ¹	—	167,797	167,797	138,589	6,720,967
Malleable	16,138	286,382	302,520	291,918	14,235,406
Total	1,597,231	613,798	2,211,029	455,552	22,142,040

1. Includes silvery pig.

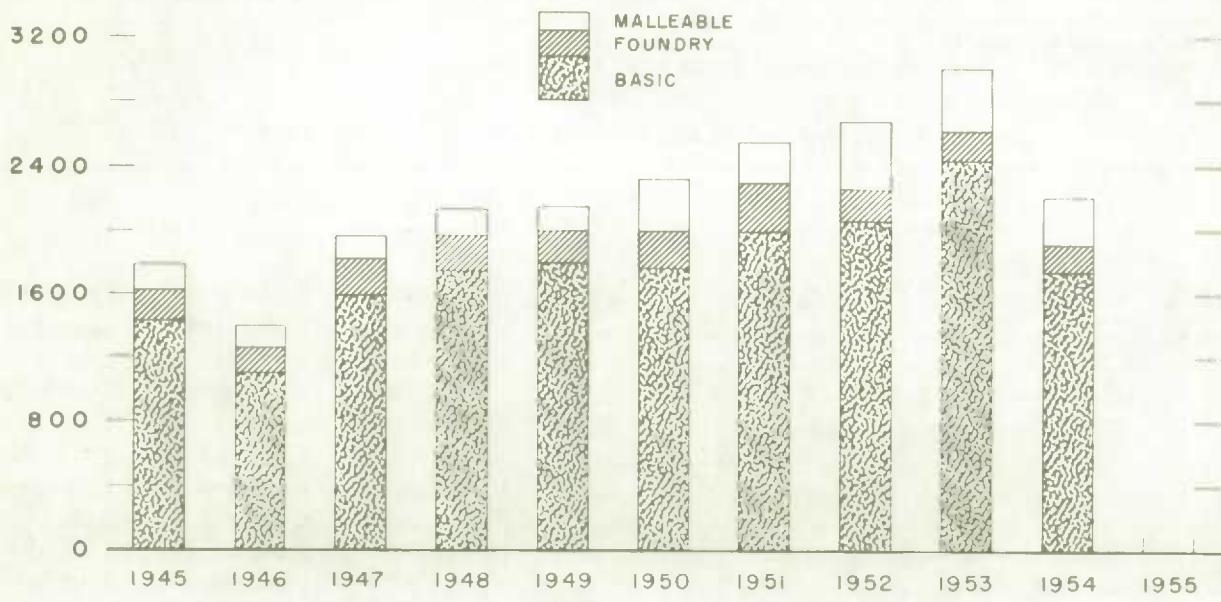
PRODUCTION OF IRON AND STEEL IN CANADA, 1945-1954

(THOUSAND NET TONS)

STEEL INGOTS AND CASTINGS



PIG IRON



IRON AND STEEL PRODUCTS

TABLE 5. Materials Charged to Iron Blast Furnaces, 1953 and 1954

Material	1953		1954	
	Quantity	Cost at furnace	Quantity	Cost at furnace
	Net tons	\$	Net tons	\$
Iron ore:				
Canadian (crude).....	666,496	4,825,110	485,429	3,445,859
Imported (crude)	3,965,835	32,609,099	2,961,282	24,550,338
Canadian (beneficiated).....	603,319	5,397,451	302,398	2,676,186
Imported (beneficiated)	—	—	—	—
Mill cinder, roll scale, flue dust, etc.....	673,879	5,168,260	577,577	4,526,604
Scrap (net charge).....	85,799	1,534,963	82,399	856,654
Limestone	1,079,781	2,267,711	778,200	1,650,941
Dolomite.....	295,984	470,122	258,463	406,297
Coke.....	2,804,996	38,882,422	1,969,669	27,407,771
Other materials	—	627,873	—	465,991
Total	—	91,783,011	—	65,986,641

TABLE 6. Production¹ of Pig Iron, by Grades, 1945 - 1954

Year	Basic	Foundry	Malleable	Total
	Net tons			
1945	1,420,205	198,244	159,500	1,777,949
1946	1,108,795	151,223	146,234	1,406,252
1947	1,587,254	234,612	140,982	1,962,848 ²
1948	1,741,613	216,246	167,880	2,125,739
1949	1,790,328	215,768	148,389	2,154,485
1950	1,763,440	238,263	315,418	2,317,121
1951	1,988,942	306,264	257,687	2,552,893
1952	2,053,691	220,754	407,140	2,681,585
1953	2,436,504	182,821	392,943	3,012,268
1954	1,740,712	167,797	302,520	2,211,029

1. See footnote to Table 17.

2. Includes 1,272 tons produced in British Columbia by an electric furnace process.

TABLE 7. Production¹ of Pig Iron, by Provinces, 1945 - 1954

Year	Nova Scotia	Ontario	Total
	Net tons		
1945.....	374,302	1,403,647	1,777,949
1946.....	317,180	1,089,072	1,406,252
1947.....	354,789	1,606,787	1,962,848 ²
1948.....	438,430	1,687,309	2,125,739
1949.....	472,885	1,681,600	2,154,485
1950.....	513,029	1,804,092	2,317,121
1951.....	485,900	2,066,993	2,552,893
1952.....	395,262	2,286,323	2,681,585
1953.....	440,005	2,572,263	3,012,268
1954.....	314,297	1,896,732	2,211,029

1. See footnote to Table 17.

2. Includes 1,272 tons produced in British Columbia by an electric furnace process.

TABLE 8. Production of Pig Iron, by Months, 1953 and 1954

Month	1953			1954		
	For own use	For sale	Total	For own use	For sale	Total
Net tons						
January	202,259	42,347	244,606	197,411	17,588	214,999
February	189,478	35,704	225,182	161,604	20,446	182,050
March.....	196,957	41,615	238,572	180,757	20,006	200,763
April	189,054	52,529	241,583	150,900	43,407	194,307
May	211,324	60,137	271,461	129,639	49,103	178,742
June.....	201,601	64,579	266,180	122,592	44,619	167,211
July	209,431	63,527	272,958	131,216	43,187	174,403
August.....	198,448	68,801	267,249	120,215	46,365	166,580
September.....	180,898	63,065	243,963	110,312	46,061	156,373
October	201,342	64,004	265,346	135,358	46,537	181,895
November	203,561	51,082	254,643	151,760	58,716	210,476
December	201,291	19,234	220,525	163,713	19,517	183,230
Total	2,385,644	626,624	3,012,268	1,755,477	455,552	2,211,029

TABLE 9. Sales of Pig Iron by Producers, 1945 - 1954

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
		\$			\$
1945.....	428,902	9,527,026	1950	636,558	27,484,529
1946.....	320,525	8,087,403	1951	726,357	36,891,960
1947.....	458,300	14,172,493	1952	752,963	37,998,156
1948.....	454,341	17,165,056	1953	626,624	31,510,562
1949.....	391,423	16,400,258	1954	455,552	22,142,040

TABLE 10. Iron Ore, Fuel and Flux Charged to Iron Blast Furnaces, 1945 - 1954

Year	Iron ore	Mill cinder, scale, etc.	Iron and steel scrap	Coke	Limestone	Dolomite
Net tons						
1945.....	3,033,454	281,189	37,067	1,631,852	757,178	39,418
1946.....	2,526,073	161,679	23,070	1,320,620	622,947	20,955
1947.....	3,672,975	154,595	39,474	1,903,419	780,600	99,507
1948.....	3,910,618	273,846	44,374	2,075,263	887,297	115,443
1949.....	3,846,066	298,598	58,240	2,011,749	827,455	121,847
1950.....	4,173,513	287,032	42,510	2,139,615	865,492	148,798
1951.....	4,645,021	345,497	65,390	2,377,968	954,546	171,757
1952.....	4,882,153	320,470	106,754	2,493,903	981,489	212,237
1953.....	5,235,650	673,879	85,799	2,804,996	1,079,781	295,984
1954.....	3,749,109	577,577	82,399	1,969,669	778,200	258,463

IRON AND STEEL PRODUCTS

TABLE 11. Imports into Canada and Exports of Pig Iron, 1945-1954

Year	Imports		Exports	
	Net tons	Value	Net tons	Value
		\$		\$
1945	7,589	231,062	21,854	493,159
1946	12,125	344,529	939	23,673
1947	8,893	252,054	1,475	55,610
1948	7,378	233,223	662	29,226
1949	20,531	936,311	12,506	547,963
1950	29,628	1,116,387	194,528	8,357,945
1951	22,126	1,000,915	223,635	12,303,679
1952	1,665	99,215	375,987	19,167,532
1953	25,484	1,246,449	345,415	16,984,257
1954	20,009	1,044,056	202,603	10,021,672

TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1945-1954

Year	Net tons	Year	Net tons
1945	25,193	1950	85,372
1946	52,112	1951	81,220
1947	44,976	1952	58,959
1948	31,391	1953	135,781
1949	71,231	1954	127,894

TABLE 13. Apparent Supply of Pig Iron in Canada, 1945-1954

Year	Production	Add imports	Deduct exports	Add or deduct changes in producers' stocks ¹	Apparent supply ²
					Net tons
1945	1,777,949	7,589	21,854	+ 24,422	1,788,106
1946	1,406,252	12,125	939	- 26,919	1,390,519
1947	1,962,848	8,893	1,475	+ 7,136	1,977,402
1948	2,125,739	7,378	662	+ 13,585	2,146,040
1949	2,154,485	20,531	12,506	- 39,840	2,122,670
1950	2,317,121	29,628	194,528	- 14,141	2,138,080
1951	2,552,893	22,126	223,635	+ 4,152	2,355,536
1952	2,681,585	1,665	375,987	+ 22,261	2,329,524
1953	3,012,268	25,484	345,415	- 76,822	2,615,515
1954	2,211,029	20,009	202,603	+ 7,887	2,036,322

1. In this column the + sign indicates a decline in stocks or that this tonnage was released for consumption; the - sign indicates an increase in stocks or that this amount was withheld from consumption.

2. No allowance made for changes in consumers' stocks of which there is no record.

TABLE 14. Consumption of Pig Iron in Canada, by Industries and by Provinces, 1951-1954
(As reported by consumers)

	1951	1952	1953	1954
Net tons				
(a) By Industries				
Steel ingots and castings	1,837,731	1,958,258	2,311,378	1,767,307
Iron castings	258,597	204,295	204,687	158,898
Boilers and platework	36,262	25,577	24,869	17,781
Agricultural implements	24,702	27,914	12,798	7,841
Machinery	33,209	27,868	20,638	17,743
Motor vehicles	4,925	7,576	9,140	2,772
Motor vehicle parts	24,322	25,071	31,880	20,467
Railway rolling stock	27,874	17,945	9,797	4,679
Brass and copper products	4,394	3,626	4,075	4,300
Shipbuilding	781	834	863	655
Hardware and tools	2,533	1,849	1,581	1,692
Miscellaneous iron and steel	17,512	12,790	15,338	11,988
Heating and cooking apparatus	17,542	14,861	12,909	8,081
Electrical apparatus and supplies	9,100	8,104	6,182	3,600
Bridge and structural steel	1,078	1,353	1,468	922
Total	2,300,562	2,337,921	2,667,603	2,028,726
(b) By Provinces				
Prince Edward Island	22	30	31	10
Nova Scotia	485,580	400,807	430,981	318,174
New Brunswick	3,525	2,954	3,138	3,144
Quebec	116,000	86,058	75,365	65,995
Ontario	1,683,650	1,839,201	2,150,328	1,635,061
Manitoba	9,550	6,597	6,172	5,231
Saskatchewan	22	488	—	—
Alberta	205	506	471	536
British Columbia	2,008	1,280	1,119	575
Canada	2,300,562	2,337,921	2,667,603	2,028,726

TABLE 15. Blast Furnaces in Canada, 1952-1954

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast		
				1952	1953	1954
Dominion Foundries & Steel Ltd.	Hamilton, Ont.	1	320,000	366	365	365
		Total	320,000	—	—	—
Dominion Iron & Steel Limited	Sydney, Nova Scotia...	1	225,000	366	365	255
		1	235,000	359	322	365
		1	135,000	281	365	39
		Total	595,000	—	—	—
Canadian Furnace Company, Limited	Port Colborne, Ont ...	1	161,000	347	303	141
		1	51,000	343	59	—
		Total	212,000	—	—	—
The Steel Company of Canada, Limited ...	Hamilton, Ont.....	1	123,000	356	304	210
		1	271,000	365	312	127
		1	377,000	320	365	354
		1	470,000	21	364	362
		Total	1,241,000	—	—	—
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	114,000	364	199	—
		1	109,000	324	100	—
		1	218,000	366	254	—
		1	177,000	362	336	57
		1	440,000	362	358	323
		1	440,000	—	164	362
		Total	1,498,000	—	—	—
Total for Canada		16	3,866,000	—	—	—

TABLE 16. World Production of Pig Iron and Ferro-alloys, by Countries (Figures taken from the "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.)

Country	1951	1952	1953	1954
000's of net tons				
United States	72,449	63,354	77,250	59,806
Canada	2,754	2,880	3,206	2,318
Mexico	224	264	287	217
Brazil	837	899	979	1,128
Chile	271	298	316	334
Austria	1,157	1,293	1,467	1,472
Belgium	5,349	5,277	4,648	5,009
Luxemburg	3,481	3,392	3,002	3,086
France	9,639	10,772	9,553	9,840
Saar	2,610	2,811	2,626	2,754
Italy	1,156	1,327	1,350	1,502
Netherlands	577	594	654	669
Norway	268	293	297	248
Sweden	938	1,160	1,109	1,005
Finland	112	119	88	80
United Kingdom	10,829	12,014	12,510	13,310
Spain	737	862	934	975
Hungary	661	716	840	947
Germany—Western	11,791	14,291	12,846	13,634
Eastern	352	375	1,177	1,470
Russia	23,000	27,000	30,352	32,100
Czechoslovakia	2,375	2,480	3,192	3,320
Poland	1,738	1,818	2,531	2,970
Romania	386	397	504	550
Yugoslavia	289	306	309	393
Union of South Africa	887	1,241	1,353	1,296
Australia	1,495	1,587	2,057	2,041
Turkey	171	212	321	215
India	2,043	2,062	1,990	2,137
Japan	3,557	3,953	5,129	5,189
Other countries	100	136	334	4,939
Total	162,234	164,183	183,121	174,954

(b) FERRO-ALLOYS

TABLE 17. Production of Ferro-alloys¹, 1945-1954

Year	Net tons	Year	Net tons
1945.....	171,642	1950.....	180,499
1946.....	139,392	1951.....	266,252
1947.....	227,123	1952.....	232,117
1948.....	232,734	1953.....	153,660
1949.....	202,092	1954.....	116,141

1. Figures in above table up to 1949 include production of silvery pig iron; since 1950, however, tonnages of the latter are included with pig iron.

TABLE 18. Producers of Ferro-alloys, 1954

Name of company	Plant location	Kind of ferro-alloy made
Canadian Carborundum Company, Limited	Niagara Falls, Ontario	Ferrosilicon (by-product)
Chromium Mining & Smelting Corp., Limited	Sault Ste. Marie, Ontario	Ferrosilicon, sil-x, chrom-x ferrochrome, ferromanganese silicomanganese, ferrochrome-silicon
Electro Metallurgical Company, Division of Union Carbide Canada Ltd.	(a) Beauharnois, Quebec	Ferrosilicon
	(b) Welland, Ontario	Ferrosilicon, ferrochrome, ferromanganese, silicomanganese, spiegeleisen, ferrochrome-silicon
Electro-Reagents (Quebec) Limited.....	Beauharnois, Quebec	Ferrosilicon
Electric Reduction Company of Canada, Limited	Buckingham, Quebec.....	Ferrophosphorus
Exolon Company	Thorold, Ontario	Ferrosilicor. (by-product)
Lionite Abrasives Limited	Stamford, Ontario.....	Ferrosilicon (by-product)
Norton Company	Chippawa, Ontario.....	Ferrosilicon (by-product)
Simonds Canada Abrasive Co., Limited	Arvida, Quebec	Ferrosilicon (by-product)

(c)STEEL INGOTS AND DIRECT STEEL CASTINGS

TABLE 19. Production of Steel Ingots and Steel Castings, and Sales by the Producers, 1953 and 1954

	1953			1954		
	Total tonnage of steel made (all kinds) including alloys	Sales		Total tonnage of steel made (all kinds) including alloys	Sales	
		Quantity	Income from sales		Quantity	Income from sales
	Net tons		\$	Net tons		\$
Steel ingots:						
Basic open-hearth ¹	3,522,039	30,170	2,205,057	2,727,730	1,448	93,228
Electric	487,509	2,002	336,091	386,061	4,128	928,265
Total steel ingots	4,009,548	32,172	2,541,148	3,113,791	5,576	1,021,493
Steel castings:						
Basic open-hearth.....	30,406	27,285	10,144,516	22,364	21,683	10,000,486
Converter	254	184	117,930	95	126	78,572
Electric	75,860	73,748	31,941,483	58,780	58,681	24,334,162
Total steel castings	106,520	101,217	42,203,929	81,239	80,490	34,413,220
Total steel ingots and castings	4,116,068	133,389	44,745,077	3,195,030	86,066	35,434,713
Any other products	—	—	857,855	—	—	512,609
Total all products	—	—	45,602,932	—	—	35,947,322
Alloy steel included in above:						
Ingots	191,977	290	36,091	132,976	3,701	858,502
Castings	23,874	23,510	12,842,102	20,852	20,956	11,159,331
Total	215,851	23,800	12,878,193	153,828	24,657	12,017,833

1. Includes production from oxygen vessels in 1954.

TABLE 20. Materials Used in Steel Furnaces, 1953 and 1954

Material	1953		1954	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
Pig iron:			Net tons	\$
Own make.....	2,300,646	—	1,759,610	—
Purchased.....	10,732	591,975	7,697	421,881
Scrap iron or steel:				
Own make.....	1,150,449	—	968,044	—
Purchased.....	1,050,069	36,089,290	661,822	17,579,528
Spiegeleisen.....	22	1,681	319	29,245
Silicospiegeleisen.....	553	57,249	—	—
Ferromanganese:				
High carbon.....	30,366	6,308,625	22,657	4,462,674
Medium carbon.....	263	106,342	167	69,020
Low carbon.....	750	308,004	1,488	599,273
Silicomanganese.....	7,101	1,642,078	4,940	1,102,863
Sil-x.....	244	47,442	166	37,347
Ferrosilicon:				
15%.....	321	24,146	267	20,533
25%.....	—	—	83	11,384
50%.....	7,965	965,776	6,440	714,956
75%.....	38	10,011	189	46,168
85-90%.....	351	85,920	141	37,396
Ferrochrome (including chrom-x):				
High carbon.....	2,557	666,289	1,475	382,295
Low carbon.....	2,429	1,180,814	2,025	1,027,110
Fermolybdenum.....	61	108,348	70	119,655
Ferrophosphorus.....	280	25,863	207	19,250
Ferroselenium.....	5	32,963	7	51,559
Ferrotitanium.....	213	50,433	171	50,166
Ferritungsten.....	49	275,761	38	118,280
Ferrovanadium.....	44	159,002	47	168,905
Ferozirconium.....	20	4,135	27	7,172
Calcium silicon.....	119	52,963	148	62,847
Calcium manganese silicon.....	399	180,009	163	75,005
Other ferro-alloys.....	590	219,208	609	227,143
Aluminum ingot and shot.....	1,622	699,395	997	410,474
Copper ingots, cakes, shot, etc.....	393	220,091	287	148,353
Nickel.....	1,443	1,597,978	1,078	1,238,919
Other metals.....	47	50,930	20	25,016
Ore, iron.....	275,883	4,972,579	203,119	3,363,744
Ore, manganese.....	—	—	—	—
Ore, chrome.....	592	37,720	641	40,014
Ore, tungsten.....	47	180,978	12	22,196
Bentonite.....	4,163	144,235	3,434	113,674
Coal:				
Anthracite.....	146	4,821	271	8,699
Bituminous.....	—	—	—	—
Coke.....	2,609	52,168	1,802	42,839
Charcoal.....	90	5,649	71	5,401
Dolomite:				
Crude.....	104,939	347,877	87,721	242,269
Calcined.....	66,586	1,562,163	48,266	1,165,247
Fluorspar.....	22,730	890,454	16,002	534,703
Ganister.....	5,468	27,710	3,817	17,827
Graphite.....	1,104	118,858	537	60,697
Lime.....	86,711	1,028,614	81,443	1,020,317
Limestone.....	301,078	722,293	182,972	462,615
Magnesite.....	14,184	821,769	9,940	546,026
Electrodes.....	—	1,611,657	—	1,236,103
Silica sands:				
For moulds.....	91,116	811,697	73,403	614,271
For sand-blasting.....	462	17,621	515	17,882
Other foundry sands.....	17,030	69,555	9,498	42,616
Sulphur.....	101	7,498	50	4,562
Firebrick, fireclay and other refractories.....	—	5,565,896	—	5,058,239
Calcium molybdate.....	6	9,507	25	29,397
Molybdenum trioxide (molybdic oxide) briquettes.....	396	469,424	219	260,623
All other materials.....	—	4,701,471	—	4,030,157
Total value of purchased metals, ores and other materials used.....	—	75,944,935	—	48,204,535

TABLE 21. Production of Steel Ingots and Steel Castings, by Grades, 1945-1954

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open- hearth	Electric	Open- hearth	Converter	Electric	
Net tons						
1945.....	2,399,858	357,291	31,216	942	88,620	2,877,927
1946.....	1,897,960	353,781	24,566	600	50,378	2,327,285
1947.....	2,438,569	416,210	24,100	741	66,332	2,945,952
1948.....	2,620,946	466,117	34,041	395	78,981	3,200,480
1949.....	2,688,036	407,590	28,671	80	66,000	3,190,377
1950.....	2,771,842	526,229	22,488	232	62,784	3,383,575
1951.....	2,917,005	530,127	30,758	282	90,548	3,568,720
1952.....	3,017,692	560,066	34,680	379	90,294	3,703,111
1953.....	3,522,039	487,509	30,406	254	75,860	4,116,068
1954.....	2,727,730	386,061	22,364	95	58,780	3,195,030

TABLE 22. Production of Steel Ingots and Steel Castings, by Months, 1950-1954

Month	1950	1951	1952	1953	1954
Net tons					
January.....	289,949	309,653	315,034	346,648	298,900
February.....	258,123	281,380	303,365	326,063	266,911
March	294,303	314,826	336,896	368,974	249,290
April	279,320	312,005	314,141	362,291	255,796
May	290,906	313,312	328,024	368,967	260,351
June	276,423	293,515	305,455	352,463	271,993
July	264,190	274,602	293,072	323,385	260,454
August.....	281,312	286,804	286,998	338,703	241,504
September.....	274,947	268,230	284,996	329,344	247,358
October.....	293,928	309,414	306,104	362,498	279,320
November.....	289,488	307,075	306,274	332,703	287,173
December.....	290,686	297,904	322,752	306,029	275,980
Total.....	3,383,575	3,568,720	3,703,111	4,116,068	3,195,030

TABLE 23. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1945-1954

Year	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
Net tons							
1945	590,365	108,779	2,116,066	44,284	13,156	5,277	2,877,927
1946.....	425,863	63,763	1,781,701	52,064	430	3,464	2,327,285
1947.....	563,377	67,540	2,253,854	55,367	615	5,199	2,945,952
1948.....	626,604	73,681	2,436,050	59,084	397	4,664	3,200,480
1949.....	672,807	73,092	2,365,201	60,079	373	18,825	3,190,377
1950.....	685,480	71,531	2,526,770	69,467	723	29,604	3,383,575
1951.....	709,451	120,310	2,619,072	78,666	1,037	40,184	3,568,720
1952.....	649,359	122,627	2,801,706	85,213	1,574	42,632	3,703,111
1953.....	638,097	97,450	3,263,633	76,180	699	40,009	4,116,068
1954.....	462,594	84,777	2,536,952	65,912	676	44,119	3,195,020

TABLE 24. Sales of Steel Ingots and Steel Castings by Producers, 1945-1954

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	Net tons	\$		Net tons	\$
1945	148,247	28,121,723	1950	313,780	38,652,613
1946	117,863	20,969,581	1951	295,279	52,227,452
1947	152,113	25,260,293	1952	265,723	57,178,291
1948	176,314	34,268,313	1953	133,389	44,745,077
1949	234,218	36,372,735	1954	86,066	35,434,713

TABLE 25. Production of Alloy Steel Ingots and Castings, 1945-1954

Year	Ingots	Castings	Total
			Net tons
1945	305,542	14,022	319,564
1946	100,016	10,697	110,713
1947	134,339	13,558	147,897
1948	155,863	15,737	171,600
1949	143,977	12,975	156,952
1950	196,239	16,498	212,737
1951	211,137	19,985	231,122
1952	217,577	25,298	242,875
1953	191,977	23,874	215,851
1954	132,976	20,852	153,828

TABLE 26. Metal, Ore and Flux Charged to Steel Furnaces, 1945-1954

Year	Pig iron	Ferro-manganese alloys ¹	Other ferro-alloys	Scrap iron and steel	Iron ore	Limestone	Dolomite	Fluorspar
	Net tons							
1945	1,416,344	31,143	15,101	1,741,895	106,614	217,499	77,206	19,462
1946	1,085,005	22,403	10,598	1,517,014	132,613	181,440	70,050	13,805
1947	1,542,040	27,082	11,737	1,671,676	155,621	231,990	95,683	18,768
1948	1,696,128	30,181	11,150	1,833,539	170,790	244,096	118,807	20,651
1949	1,736,824	30,721	11,635	1,770,758	183,572	254,072	120,494	21,136
1950	1,667,504	32,691	12,097	1,995,326	244,512	265,941	136,666	21,800
1951	1,837,731	34,361	15,152	2,106,714	304,403	257,635	151,147	23,374
1952	1,958,258	36,486	16,513	2,122,270	277,804	276,202	149,310	22,576
1953	2,311,378	39,055	15,167	2,200,518	275,883	301,078	171,525	22,730
1954	1,767,307	29,571	11,962	1,629,866	203,119	182,972	135,987	16,002

1. Including spiegeleisen, silicospiegeleisen, ferromanganese (all grades) and siliconmanganese.

TABLE 27. Steel Furnaces in Canada, December 31, 1954

	Type	Number of Units	Size	Total annual capacity
Net tons				
Nova Scotia:				
Dominion Iron & Steel Limited, Sydney	O.H.	1	56	48,000
	O.H.	2	120	162,000
	O.H.	3	170	300,000
	Elec.	1	11	32,000
Total	—	7	—	542,000
Maritime Steel Foundries Ltd., New Glasgow	Elec.	1	4	3,000
Quebec:				
Canadian Unitcast-Steel Ltd., Montreal	Elec.	1	3	12,000
Canadian Car and Foundry Co. Ltd., Montreal	O.H.	3	25	49,000
	Elec.	1	4	7,000
	Elec.	1	2½	4,600
	Elec.	1	½	1,000
Total	—	6	—	61,600
Canadian Tube and Steel Products Ltd., Montreal	Elec.	2	25	84,800
Dominion Brake Shoe Company, Ltd., Joliette	Elec.	1	2	4,000
	Elec.	1	2½	8,000
Total	—	2	—	12,000
Dominion Engineering Works, Ltd., Lachine	Elec.	1	5	4,000
	Elec.	1	15	4,000
Total	—	2	—	8,000
Eastern Electro-Castings Co. Ltd., Lachine	Elec.	1	6	6,500
La Compagnie F.X. Drolet Ltd., Quebec	Conv.	1	1	300
Lynn MacLeod Metallurgy Ltd., Thetford Mines	Elec.	1	1	2,500
Manganese Steel Castings Ltd., Sherbrooke	Elec.	1	2	1,800
Shawinigan Chemicals Ltd., Shawinigan Falls	Elec.	1	½	900
	Elec.	1	2	3,600
	Elec.	1	1	1,800
Total	—	3	—	6,300
Sorel Industries Ltd., Sorel	Elec.	1	33	21,800
	Elec.	1	12	10,500
	Elec.	1	4	5,300
Total	—	3	—	37,600
Sorel Steel Foundries Ltd., Sorel	Elec.	1	4	5,000
Ontario:				
Algoma Steel Corp. Ltd., Sault Ste. Marie	O.H.	8	90	430,000
	O.H.	4	150	390,000
	O.H.	2	330	300,000
Total	—	14	—	1,120,000¹
Atlas Steels Limited, Welland	Elec.	1	6	7,200
	Elec.	1	10	12,000
	Elec.	2	25	64,000
	Elec.	2	45	86,400
Total	—	6	—	169,600
Burlington Steel Co. Ltd., Hamilton	Elec.	1	7	26,400
Canada Electric Castings Ltd., Orillia	Elec.	2	2	6,000
Dominion Foundries and Steel Ltd., Hamilton	O.H.	2	62	124,600
	O.H.	2	64	128,600
	Elec.	2	10	33,000
	Elec.	2	50	140,000
	Elec.	1	2½	9,000
	Oxygen vessels	2	40	350,000
Total	—	11	—	785,200

1. Does not include two 25-ton Bessemer converters rated at 120,000 tons annually, used for duplexing.

TABLE 27. Steel Furnaces in Canada, December 31, 1954—Concluded

	Type	Number of Units	Size	Total annual capacity
Net tons				
Ontario — concluded:				
Fahr alloy Canada Ltd., Orillia	Elec.	1	½	1,500
	Elec.	1	1½	2,300
	Elec.	1	2	3,100
Total	—	3	—	6,900
Ford Motor Co. of Canada Ltd., Windsor	Elec.	1	5	10,500
	Elec.	15	4	88,100
	Elec.	1	½	750
	Elec.	1	¼	625
Total	—	18	—	99,975
Hayward Tyler of Canada Ltd., Kitchener	Elec.	1	¼	600
	Elec.	1	½	
Total	—	2	—	600
William Kennedy and Sons Ltd., Owen Sound	Elec.	1	1¼	2,400
	Elec.	1	4	8,000
Total	—	2	—	10,400
Sheepbridge Engineering (Canada) Ltd., Guelph	Elec.	1	½	1,500
Steel Company of Canada, Hamilton	O.H.	4	113	370,300
	O.H.	5	182	664,600
	O.H.	4	300	845,100
	Elec.	1	91	110,000
Total	—	14	—	1,990,000
Welland Electric Steel Foundry Ltd., Welland	Elec.	1	1½	2,500
	Elec.	1	½	
	Elec.	1	¼	
Total	—	3	—	2,500
Manitoba:				
Manitoba Rolling Mill Co. Ltd., Selkirk	O.H.	2	20	50,000
	Elec.	1	6	26,000
	Elec.	1	10	38,000
Total	—	4	—	114,000
Manitoba Steel Foundries Ltd., Selkirk	Elec.	1	5	4,000
Alberta:				
Riverside Iron & Engineering Works Ltd., Calgary	Elec.	1	1½	1,300
Foothills Steel Foundry & Iron Works, Calgary	Elec.	1	½	3,600
British Columbia:				
A-1 Steel and Iron Foundry, Vancouver	Elec.	1	½	2,000
Britannia Mining and Smelting Co. Ltd., Britannia Beach	Elec.	1	5	4,200
Consolidated Mining and Smelting Co. of Canada, Trail	Elec.	1	1	2,500
	Elec.	1	6	6,000
Total	—	2	—	8,500
Reliance Foundry Co. Ltd., Vancouver	Elec.	1	1	2,000
	Elec.	1	1½	3,000
Total	—	2	—	5,000
Vancouver Iron Works Ltd., Vancouver	Elec.	1	2	3,500
	Elec.	1	1	2,000
	Conv.	1	2	4,500
Total	—	3	—	10,000
Vancouver Steel Co. Ltd., Vancouver	Elec.	1	15	43,400
Victoria Machinery Depot Co. Ltd., Victoria	Elec.	1	2	2,600
Canadian Sumner Iron Works Ltd., Vancouver	Elec.	1	1	3,600

TABLE 28. Summary of Steel Furnace Capacity, December 31, 1954

		Number of furnaces	Total annual capacity
			Net tons
Basic open-hearth (including oxygen vessels)		44	4,212,200
Electric		82	987,675
Converter		2	4,800
Total		128	5,204,675
Steel ingots:			
Basic open-hearth (including oxygen vessels)		—	4,163,200
Electric		—	719,800
Total		—	4,883,000
Steel castings			321,675
Total ingots and castings		—	5,204,675

TABLE 29. Summary of Steel Furnace Capacity, by Provinces, December 31, 1950-1954

Province	Total annual capacity				
	1950	1951	1952	1953	1954
(Net tons)					
Nova Scotia	716,000	716,000	716,000	737,000	545,000
Quebec	270,700	325,500	290,100	288,700	238,400
Ontario	2,815,575	2,820,875	3,642,975	3,774,875	4,219,075
Manitoba	66,700	66,700	66,700	115,600	118,000
Alberta	2,500	2,500	2,500	2,500	4,900
British Columbia	64,625	64,425	65,825	73,100	79,300
Canada	3,936,100	3,996,000	4,784,100	4,991,775	5,204,675

TABLE 30. World Ingot and Castings Production, by Countries (Figures taken from the "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.)

Country	1951	1952	1953	1954	000's of net tons
United States	105,200	93,168	111,610	88,312	
Canada	3,508	3,659	4,104	3,158	
Mexico	474	437	474	592	
Argentina	276	280	336	339	
Brazil	915	962	1,084	1,257	
Austria	1,133	1,166	1,401	1,819	
Belgium	5,515	5,504	4,846	5,526	
Luxemburg	3,393	3,307	2,930	3,117	
France	10,838	11,980	11,023	11,712	
Saar	2,869	3,112	2,959	3,092	
Italy	3,351	3,890	3,807	4,608	
Netherlands	610	755	947	1,024	
Sweden	1,657	1,803	1,944	2,039	
United Kingdom	17,515	18,390	19,723	20,739	
Spain	895	1,000	986	1,213	
Yugoslavia	478	489	568	667	
Germany—Western	14,885	17,422	16,997	19,215	
Eastern	1,453	1,628	2,296	2,590	
Russia	34,500	38,600	41,776	45,194	
Czechoslovakia	3,651	3,853	4,738	5,104	
Hungary	1,360	1,534	1,658	1,587	
Poland	3,078	3,584	3,920	4,362	
Romania	705	762	795	827	
Union of South Africa	1,108	1,388	1,366	1,558	
Australia	1,606	1,841	2,295	2,488	
Turkey	149	169	179	185	
India	1,662	1,768	1,687	1,853	
Japan	7,168	7,706	8,457	8,543	
Other countries	959	2,720	3,539	3,575	
Total	230,910	232,876	258,445	246,293	

(d) ROLLED AND DRAWN STEEL

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1953 and 1954

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
1953		Net tons	\$
A. HOT-ROLLED PRODUCTS			
Semi-finished rolled forms of iron and steel:			
Blooms, billets, slabs and sheet bars, except those for forging and export items listed immediately below	2,695,996	111,993	8,206,589
Blooms, billets, slabs and sheet bars, for export	64,522	64,522	6,597,039
Blooms, billets and axle blanks, for forging purposes only, excluding all those intended for further rolling, but including blanks or pierced billets for seamless tubes	110,342	103,471	10,424,976
Total semi-finished rolled forms	2,870,860	279,986	25,228,604
Rails	303,318	299,808	26,465,922
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	286,471	113,095	10,687,946
Structural steel shapes:			
Heavy, including beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1/8" and over	186,249	177,337	18,268,484
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	85,971	85,478	9,321,206
Total structural steel shapes²	272,220	262,815	27,589,690
Bars:			
Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars, but omitting all bars reported immediately below	491,499	427,700	57,200,781
Bars for concrete reinforcing, including twisted and other deformed bars	171,490	164,378	17,813,011
Long angle splice bars, tie plate bars and all other long rail joint bars	69,286	—	—
Total hot-rolled bars²	732,275	592,078	75,013,792
Plates, all kinds, including boiler and other sheared plates	221,818	220,539	23,136,938
Hot-rolled sheets and strip, skelp, sheet piling and all other hot-rolled forms	1,130,328	432,759	44,515,710
B. COLD-ROLLED AND COATED PRODUCTS			
Bars, cold-rolled and cold-drawn	45,954	46,094	10,971,376
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, cold-rolled strip, galvanized sheets and strip ¹ and tin plate.	896,479	547,299	86,371,374
C. OTHER PRODUCTS			
Rail fastenings—Splice bars or fish plates	14,939	14,159	1,754,308
Tie plates	50,181	50,202	5,530,240
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	—	—	8,225,010
Total value of production	—	—	345,490,910

1. Includes the tonnages made in rolling mills only.

2. Not comparable with previous years as prior to 1951 light structural shapes were classified under hot-rolled bars.

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1953 and 1954 — Concluded

Product	Total tonnage made	Factory sales				
		Tonnage sold in Canada or for export	Income from tonnage sold			
1954		Net tons				
A. HOT-ROLLED PRODUCTS						
Semi-finished rolled forms of iron and steel:						
Blooms, billets, slabs and sheet bars, except those for forging and export items listed immediately below	2,180,523	75,086	5,538,269			
Blooms, billets, slabs and sheet bars, for export	20,699	16,292	1,283,447			
Blooms, billets and axle blanks, for forging purposes only, excluding all those intended for further rolling, but including blanks or pierced billets for seamless tubes	72,503	59,539	5,927,220			
Total semi-finished rolled forms	2,273,725	150,917	12,748,936			
Rails	241,922	232,484	21,421,531			
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	275,121	274,870 ³	26,848,014			
Structural steel shapes:						
Heavy, including beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1/8" and over	119,399	116,595	11,936,414			
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	64,143	63,549	7,018,328			
Total structural steel shapes²	183,542	180,144	18,954,742			
Bars:						
Bars, hot-rolled, of all grades and of all sections, including bolt, nut, rivet, spike, chain, horseshoe and other miscellaneous bars, but omitting all bars reported immediately below	313,117	296,515	39,921,689			
Bars for concrete reinforcing, including twisted and other deformed bars	157,089	149,004	16,603,441			
Long angle splice bars, tie plate bars and all other long rail joint bars	58,315	—	—			
Total hot-rolled bars²	528,521	445,519	56,525,130			
Plates, all kinds, including boiler and other sheared plates	201,939	201,524	20,568,611			
Hot-rolled sheets and strip, skelp, sheet piling and all other hot-rolled forms	990,524	352,230	36,227,286			
B. COLD-ROLLED AND COATED PRODUCTS						
Bars, cold-rolled and cold-drawn	28,651	28,829	7,716,957			
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, cold-rolled strip, galvanized sheets and strip ¹ and tin plate	863,452	548,254	87,429,992			
C. OTHER PRODUCTS						
Rail fastenings—Splice bars or fish plates	13,175	12,786	1,545,914			
Tie plates	39,386	38,027	4,152,574			
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	—	—	7,785,902			
Total value of production	—	—	301,925,589			

1. Includes the tonnages made in rolling mills only.

2. Not comparable with previous years as prior to 1951 light structurals were classified under hot-rolled bars.

3. Includes shipments transferred to own fabricating mills of producing firms in 1954. These tonnages not included prior to 1954 - see footnote 2 of introductory text.

IRON AND STEEL PRODUCTS

TABLE 32. Materials Used for All Purposes in Iron and Steel Rolling and Drawing Mills,
1953 and 1954

Material	Companies' own make	Purchased	
		Quantity	Cost at works
1953		Net tons	\$
Steel ingots	3,928,675	16,269	1,139,201
Steel blooms	14	—	—
Steel slabs	—	5,660	490,048
Steel billets	116,557	113,580	9,548,163
Steel bars	—	38,718	5,020,813
Rails, old	—	64,241	3,084,592
Axles, old	—	2,249	111,756
Scrap iron and steel, other	10,818	6,712	225,369
Tin	—	2,054	4,758,717
Zinc spelter	—	6,022	1,280,647
Palm oil	—	786	223,063
Ammonium chloride	—	427	81,651
Sulphuric acid, 100%	—	18,623	472,194
Silica sand	—	458	3,964
All other materials and supplies	—	—	3,253,351
Total	—	—	29,694,529
1954			
Steel ingots	3,134,682	451	332,107
Steel blooms	—	—	—
Steel slabs	—	—	—
Steel billets	110,131	72,792	6,010,932
Steel bars	1,167	23,062	3,084,408
Rails, old	—	55,778	2,466,428
Axles, old	—	5,459	211,441
Scrap iron and steel, other	11,698	3,057	77,925
Tin	—	1,974	3,247,224
Zinc spelter	—	4,907	1,036,042
Palm oil	—	1,041	274,844
Ammonium chloride	—	379	70,000
Sulphuric acid, 100%	—	14,284	374,098
Hydrochloric acid, 20° Be	—	602	29,936
Silica sand	—	367	2,975
All other materials and supplies	—	—	5,310,704
Total	—	—	22,529,064

TABLE 33. Net Production¹ in Canada of Hot-rolled Iron and Steel Products, 1950 - 1954

	1950	1951	1952	1953	1954
Net tons					
Blooms, billets and slabs	246,473	148,629	164,487	174,864	93,202
Rails	286,672	257,244	253,675	303,318	241,922
Rail fastenings	67,958	91,866	97,324	69,286	58,315
Wire rods	293,866	318,266	315,789	286,471	275,121
Structural shapes	124,280	228,092	220,616	272,220	183,542
Bars	608,912	671,139	689,648	662,989	470,206
Plates, sheets, hoops, bands and strips	905,911	1,058,751	1,075,263	1,258,607	1,028,587
Other hot-rolled forms	107,988	85,550	163,721	93,539	163,876
Total	2,642,060	2,859,537	2,980,523	3,121,294	2,514,771

1. Inter-mill shipments have been excluded.

TABLE 34. Alloy Steel Products Made and Sold by Rolling Mills, 1953 and 1954

	1953		1954	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Bars.....	100,278	99,125	57,679	56,267
Other products, including plates, billets, forgings, sheet piling and wire rods, etc.	109,581	21,149	82,910	17,937
Total alloy steel	209,859	120,274	140,589	74,204

TABLE 35. Products Rolled from Old Rails, Axles, Etc., 1953 and 1954

	1953		1954	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Rails.....	—	—	—	—
Bars.....	52,689	49,898	49,116	48,463
Other products	4,929	4,098	4,238	3,635
Total	57,618	53,996	53,354	52,098

TABLE 36. Pig Iron, Steel Ingots and Castings and Semi-Finished Rolled Forms Shipped for Export by Producers, 1953 and 1954

	1953	1954	Net tons
Pig iron.....	282,194	203,268	
Steel ingots	28,706	—	
Steel castings	5,434	4,732	
Semi-finished rolled forms	64,522	20,699	
Total	380,856	228,699	

TABLE 37. Production and Factory Sales of Steel Rails, 1945-1954

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		\$
1945.....	291,651	288,630	14,229,922
1946.....	206,374	210,020	10,716,361
1947.....	250,049	242,729	13,236,588
1948.....	337,244	328,572	21,887,014
1949.....	329,749	339,390	24,580,963
1950.....	286,672	286,753	21,305,231
1951.....	257,244	254,911	19,910,580
1952.....	253,675	251,894	21,223,964
1953.....	303,318	299,808	26,465,922
1954.....	241,922	232,484	21,421,531

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TABLE 38. Production and Factory Sales of Finished Rail Fastenings, 1945-1954

Year	Tie plates			Fish plates and splice bars		
	Quantity made	Factory sales		Quantity made	Factory sales	
		Quantity	Income from sales		Quantity	Income from sales
	Net tons		\$	Net tons		\$
1945.....	40,129	40,784	2,271,313	10,847	10,836	778,664
1946.....	38,778	41,097	2,474,231	11,918	11,988	876,209
1947.....	39,175	39,459	2,572,632	10,124	9,666	747,608
1948.....	49,669	49,575	3,901,039	23,005	23,190	2,151,653
1949.....	48,493	48,343	4,231,844	14,481	14,267	1,398,332
1950.....	53,807	53,510	4,603,788	14,151	13,912	1,377,614
1951.....	67,588	66,783	6,464,668	18,655	18,577	2,008,149
1952.....	74,519	73,605	7,822,057	16,344	15,803	1,891,455
1953.....	50,181	50,202	5,530,240	14,939	14,159	1,754,308
1954.....	39,386	38,027	4,152,574	13,175	12,786	1,545,914

TABLE 39. Production and Factory Sales¹ of Wire Rods of Iron or Steel, 1945-1954

Year	Total tonnage made	Factory sales		Year	Total tonnage made	Factory sales			
		Tonnage sold	Income from sales			Tonnage sold	Income from sales		
						Net tons	\$		
		Net tons	\$			Net tons	\$		
1945.....	257,606	105,648	4,417,200	1950.....	293,866	120,429	8,542,491		
1946.....	210,548	82,006	3,670,356	1951.....	318,266	122,514	9,695,144		
1947.....	284,795	108,512	5,310,661	1952.....	315,789	128,900	11,554,693		
1948.....	286,990	107,686	6,267,303	1953.....	286,471	113,095	10,687,946		
1949.....	290,863	114,114	7,137,187	1954.....	275,121	274,870	26,848,014		

1. Includes shipments transferred to own mills of producing firms in 1954. These tonnages not included before 1954-see footnote 2 of introductory text.

TABLE 40. Production and Factory Sales of Blooms, Billets and Slabs, 1945-1954

Year	Except for forging ¹			For forging ²		
	Total tonnage made	Factory sales		Total tonnage made	Factory sales	
		Tonnage sold	Income from sales		Tonnage sold	Income from sales
	Net tons		\$	Net tons		\$
1945.....	1,572,489	88,950	3,425,864	227,577	211,468	14,306,145
1946.....	1,589,256	188,224	7,979,155	45,599	37,635	2,248,394
1947.....	1,980,914	264,871	11,278,574	138,034	128,654	7,075,691
1948.....	2,201,281	321,748	16,983,227	112,338	102,906	7,539,117
1949.....	2,272,987	321,094	18,037,477	82,853	75,830	5,566,209
1950.....	2,332,336	259,898	16,955,029	114,548	103,007	8,349,232
1951.....	2,498,536	308,888	21,066,928	147,004	138,446	12,446,727
1952.....	2,587,942	277,588	22,385,697	141,490	122,165	12,560,467
1953.....	2,760,518	176,515	14,803,628	110,342	103,471	10,424,976
1954.....	2,201,222	91,378	6,821,716	72,503	59,539	5,927,220

1. Shipments to other Canadian rolling mills are included.

2. Includes blanks or pierced billets for seamless tubes since 1947.

TABLE 41. Production and Factory Sales of Hot-rolled Bars¹ of All Kinds, 1945-1954

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
		Net tons	
1945	574,446	438,622	31,680,209
1946	492,853	377,250	28,448,498
1947	609,763	473,430	38,949,914
1948	634,315	507,364	47,877,986
1949	662,488	532,092	49,414,874
1950	684,934	552,006	56,694,325
1951	763,005	587,160	73,105,972
1952	786,972	600,302	81,124,625
1953	732,275	592,078	75,013,792
1954	528,521	445,519	56,525,130

1. Included light structurals before 1951; therefore data since 1951 are not exactly comparable with previous years.

TABLE 42. Production of Structural Steel Shapes¹ of All Kinds, 1945-1954

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
		Net tons	
1945	191,907	190,050	10,399,503
1946	131,894	131,900	7,697,043
1947	180,226	175,386	10,995,147
1948	175,031	173,949	12,830,518
1949	168,099	177,314	13,940,920
1950	124,280	122,943	10,515,280
1951	228,092	223,281	21,612,670
1952	220,616	212,919	22,140,506
1953	272,220	262,815	27,589,690
1954	183,542	180,144	18,954,742

1. Light structurals classified under hot-rolled bars prior to 1951; therefore data since 1951 are not exactly comparable with previous years.

TABLE 43. Production and Factory Sales of Steel Plate, 1945-1954

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
		Net tons	
1945	282,592	275,674	16,687,112
1946	170,043	165,356	9,480,384
1947	192,155	188,580	11,566,700
1948	228,978	228,492	17,300,582
1949	178,440	171,653	14,596,604
1950	150,857	146,559	12,640,871
1951	184,707	183,994	17,977,171
1952	234,115	234,799	26,071,334
1953	221,818	220,539	23,136,938
1954	201,939	201,524	20,568,611

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TABLE 44. Imports of Primary Forms of Iron and Steel, 1954

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Pig iron:				
Basic	United States United Kingdom South Africa	171 2,810 171	—	—
Foundry	United States United Kingdom Spain South Africa Australia	3,882 1,792 5,462 126 828	— — — — —	— — — — —
Silvery	United States	2,857	—	—
Malleable	United States	510	—	—
Ingots	United States	710	1,081	—
Billets, blooms, slabs and sheet bars	United States Belgium United Kingdom	1,512 1,000 13	445 — 84	87.5 — —
Tube rounds and tube billets	United States	1,051	—	—
Bars and sections:				
Hot rolled, n.o.p.	United States United Kingdom Belgium France Japan Germany Austria	24,210 2,452 17,272 6,574 179 723 —	2,602 411 — — — — 60	160.5 181.1 — — — — —
Hot rolled:				
For agricultural implements	United States	3,034	143	—
Rounds over 4 $\frac{1}{2}$ ", squares over 4"	United States United Kingdom Belgium	1,133 522 2	52 28 —	1.1 1.8 —
Angles, channels, etc.	United States Belgium United Kingdom France Germany Sweden	5,076 3,412 463 1,325 35 —	— — — — — —	53.1 — — — — 3.0
Structurals (bar sizes) for agricultural implements	United States	499	—	—
Sash or casement sections	United States United Kingdom Belgium	2,464 160 91	— — —	— — —
Cold finished, n.o.p.	United States United Kingdom Belgium Sweden France	4,006 1,407 273 — 481	331 7 — 115 —	146.7 71.0 — — —
Cold finished, for agricultural implements	United States	1,648	16	—
Tool steel	United States United Kingdom Germany Austria	36 245 — —	482 595 11 31	— — — —
Structurals	United States United Kingdom Belgium France Germany	242,332 7,106 16,833 10,029 1,682	— — — — —	— — — — —

TABLE 44. Imports of Primary Forms of Iron and Steel, 1954

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Plates:				
78" and under in width	United States	27,287	470	655.8
	United Kingdom	17,669	—	214.9
	Germany	183	—	—
	Japan	3,217	—	—
	Belgium	163	—	—
Over 78" and under 100" in width	United States	24,148	34	125.4
	United Kingdom	9,124	—	—
	France	6	—	—
	Japan	356	—	—
100" in width and over	United States	5,752	23	187.5
	United Kingdom	446	—	—
	France	22	—	—
Flanged, dished or curved	United States	1,102	—	—
Boiler, pulp-mill digesters	United States	3,513	—	—
	United Kingdom	18	—	—
Chequered or surface pattern	United States	9,633	—	—
	United Kingdom	455	—	—
Sheets:				
Silicon .075 or more	United States	—	12,971	—
	United Kingdom	—	286	—
Galvanized	United States	17,153	—	—
	United Kingdom	1,401	—	—
	Belgium	13	—	—
Hot-rolled:				
18 gauge and heavier	United States	43,822	123	96.5
	United Kingdom	1,180	—	405.3
	Sweden	—	—	74.6
Lighter than 18 gauge	United States	27	42	11.1
	United Kingdom	—	—	20.5
	Belgium	7	—	—
	Sweden	—	—	7
Cold-rolled:				
18 gauge and heavier	United States	7,177	—	1,003.3
	United Kingdom	307	—	688.2
	Sweden	1	—	6.3
Lighter than 18 gauge	United States	10,105	—	1,254.8
	United Kingdom	1,789	—	225.3
	Sweden	—	—	11.7
Corrugated	United States	5,411	—	—
Coated with paint, tar, asphaltum, etc.	United States	28	—	—
For saws	United States	949	—	—
	United States	—	503	—
	United Kingdom	—	15	—
	Sweden	—	1	—
For hollow-ware (vitreous enamel)	United States	7,970	—	—
	United Kingdom	581	—	—
Tin mill black plate	United States	36	—	—
For motor vehicles	United States	18,570	—	—
For heating apparatus	United States	160	—	—
For tubes	United States	532	—	—
Tin plate - Primes	United Kingdom	2,766	—	—
	United States	1,456	—	—
	United States	274	—	—
Electrolytic 25# coating	United Kingdom	2,135	—	—
Terne plate: Long	United States	3,641	—	—
Short	United States	1,848	—	—

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TABLE 44. Imports of Primary Forms of Iron and Steel, 1954 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Strip:				
Hot-rolled:				
18 gauge and heavier	United States	4,476	54	1.6
	United Kingdom	255	—	—
	Belgium	432	—	—
	France	61	—	—
	Holland	64	—	—
Lighter than 18 gauge	United States	421	—	—
	United Kingdom	28	—	—
Cold-rolled:				
18 gauge and heavier	United States	1,320	353	162.0
	United Kingdom	105	—	4.7
Lighter than 18 gauge	United States	2,166	239	1,209.0
	United Kingdom	325	—	24.6
	Sweden	4	187	3.8
	Belgium	10	—	—
	Netherlands	—	5	—
For cold rolling	United States	231	—	—
For saws	United States	1	405	—
	United Kingdom	—	6	—
	Sweden	—	117	—
For tubes	United States	226	—	—
For tubular products	United States	186	—	—
For motor vehicles	United States	11,330	—	—
For hoops	United States	572	—	—
	United Kingdom	262	—	—
	Sweden	5	—	—
	Belgium	32	—	—
For shoe and corset laces, etc.	United States	5	—	—
	United Kingdom	2	—	—
Coated with paint, tar, asphaltum, etc.	United States	6,272	—	—
	United Kingdom	13	—	—
	Germany	21	—	—
Silicon .075 or more	United States	—	5,294	—
	United Kingdom	—	4	—
For butt hinges	United States	1,042	—	—
Galvanized	United States	3,916	—	—
	United Kingdom	574	—	—
	Belgium	9	—	—
Skelp:				
15½" and under in width	United States	49,406	—	—
	Belgium	7,315	—	—
	Germany	2,254	—	—
Over 15½" in width	United States	6,208	—	—
	Belgium	1,109	—	—
Pipes and tubes:				
Cast	United States	763	—	—
	United Kingdom	30,611	—	—
	Germany	37	—	—
For bedstead	France	2	—	—
Repair of pressure parts of boilers:				
Hot-finished	United States	2,049	155	266.2
	United Kingdom	2,499	53	—
	Switzerland	180	—	—
	Germany	25	—	—
	Sweden	1	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1954 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Pipes and tubes — concluded:				
Repair of pressure parts of boilers — concluded:				
Cold-drawn	United States United Kingdom Sweden	234 519 11	32 2 —	15.8 — —
Welded	United States United Kingdom	1,476 977	22 —	2.2 —
Seamless, 12" and under in diameter:				
Cold-drawn	United States United Kingdom Sweden	4,864 1,243 94	3,095 30 456	306.5 170.7 10.0
Hot-finished	United States United Kingdom Germany Italy	6,991 5,861 200 21	486 13 — —	153.2 — — —
Seamless, over 12" in diameter:				
Hot-finished	United States United Kingdom	6,716 5,044	19 7	— —
Welded, 4" and under in diameter	United States United Kingdom France Germany Holland Belgium Netherlands	8,819 6,342 638 2,506 17 61 14	222 — — — — — —	70.0 — — — — — —
Welded, over 4" in diameter	United States United Kingdom	106,049 17,463	— —	19.1 —
Tubing:				
Not over 1/2" diameter, welded and coated	United States	260	—	—
Spiral-welded	United States	5,408	—	—
Conduit	United States	3,814	—	—
Casings	United States United Kingdom Germany Italy Japan France Belgium	51,040 23,162 7,501 4,144 10,626 1,970 140	— — — — — — —	— — — — — — —
Wire rope	United States United Kingdom Germany Belgium Holland Norway Sweden Netherlands	732 1,574 597 162 213 4 4 4	— — — — — — — —	2.5 — — — — — — —
Wire: For rope	United States United Kingdom Norway Germany Belgium	2,528 9,348 70 21 8	— — — — —	4.1 1.7 — — —
For springs, cushions, mattresses, etc.	United States	1,583	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1954 — Concluded

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Wire — concluded:				
For corset clasps, dress stays, etc.	United States	72	—	—
	United Kingdom	6	—	—
Coated or covered	United States	496	—	—
	United Kingdom	303	—	—
	Belgium	30	—	—
	Germany	156	—	—
	Norway	6	—	—
All other	United States	1,767	246	29.4
	United Kingdom	561	—	.7
	Belgium	345	—	—
	Germany	35	—	—
	Sweden	2	3	5.7
	France	132	—	—
	Holland	155	—	—
Wire rods, not over $\frac{1}{8}$ " in diameter	United States	670	—	—
	United Kingdom	4,450	—	—
	Belgium	1,128	—	—
	Germany	3,593	—	—
	Sweden	36	—	—
Welding wire and welding rods	United States	769	1,077	—
	United Kingdom	—	3	—
	Sweden	—	9	—
Axles — For railway rolling stock	United States	16	—	—
Tires — For railway rolling stock	United States	75	—	—
	United Kingdom	1,293	—	—
Wheels — For railway rolling stock	United States	86	—	—
	United Kingdom	13,957	—	—
Rails:				
60 lb. and under	United States	578	—	—
	United Kingdom	1	—	—
	Belgium	612	—	—
	Germany	163	—	—
	France	38	—	—
Over 60 lb. and including 100 lb.	United States	1,816	—	—
	United Kingdom	8,422	—	—
Over 100 lb.	United States	1,196	—	—
	Belgium	26	—	—
Track material:				
Fish plates, angle bars, etc.	United States	1,503	—	—
	United Kingdom	2,264	—	—
	Belgium	33	—	—
	France	1	—	—
	Germany	9	—	—
Switch points, etc.	United States	191	—	—
Total imports	United States	785,982	31,027	6,025.1
	All other	309,876	2,539	2,126.4
TOTAL*		1,095,858	33,566	8,151.5

* 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.

TABLE 45. Exports of Primary Iron and Steel, 1954

Commodity	Total tonnage
	Tons of 2,000 pounds
Pig iron.....	202,603
Ingots, blooms and billets	5,346
Bars.....	4,631
Rods	572
Plates, sheets and strips.....	28,239
Rails.....	1,495
Structural shapes.....	987
Pipe and tubing:	
Wrought iron.....	128
Cast iron.....	152
Galvanized.....	308
Other	961
Castings, iron and steel.....	13,094
Forgings.....	2,352
Total	260,868

TABLE 46. Principal Statistics of the Primary Iron and Steel Industry, Grouped According to Size of Establishments, 1954

Establishments reporting a value of factory shipments	Establishments	Employees	Earnings	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
Under \$10,000.....	1	30	103,911	12,618	65,922	127,391
\$50,000 to \$99,999	2					
\$100,000 to \$199,999	5	142	514,386	44,121	236,414	847,602
\$200,000 to \$499,999	8	387	1,358,463	328,567	538,596	2,361,010
\$500,000 to \$999,999	10	1,046	3,485,428	378,213	2,103,901	7,214,047
\$1,000,000 to \$4,999,999	14	2,356	8,804,778	2,042,149	13,383,143	29,876,976
\$5,000,000 and over.....	11	24,884	94,467,537	20,924,793	128,782,374	342,727,170
Head offices	—	16	82,927	—	—	—
Totals	51	28,861	108,817,430	23,730,461	145,110,350	383,154,196

IRON AND STEEL PRODUCTS

TABLE 47. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1953 and 1954

Province	Number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
1953						\$	\$	\$	
Nova Scotia	397	56	4,463	—	4,916	1,849,961	13,831,989	15,681,950	
Quebec	498	119	3,538	2	4,157	2,467,383	12,334,139	14,801,522	
Ontario	2,287	911	20,980	205	24,383	15,207,276	78,693,532	93,900,808	
Manitoba	85	22	873	—	980	466,893	2,898,491	3,365,384	
Alberta	}	67	4	446	3	520	245,988	1,713,904	
British Columbia									
Canada	3,334	1,112	30,300	210	34,956	20,237,501	109,472,055	129,709,556	
1954						\$	\$	\$	
Nova Scotia	385	48	3,490	2	3,925	1,906,235	10,822,724	12,728,959	
Quebec	528	104	2,876	1	3,509	2,763,633	10,201,103	12,964,736	
Ontario	2,512	767	16,700	187	20,166	16,282,528	62,252,234	78,534,762	
Manitoba	60	19	693	—	772	338,174	2,441,148	2,779,322	
Alberta	}	41	2	446	—	489	177,002	1,632,649	
British Columbia									
Canada	3,526	940	24,205	190	28,861	21,467,572	87,349,858	108,817,430	

TABLE 48. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
Number						
January	29,698	230	29,928	26,673	194	26,867
February	30,044	229	30,273	25,613	189	25,802
March	30,287	212	30,499	25,008	196	25,204
April	30,268	198	30,466	24,496	197	24,693
May	30,605	204	30,809	24,504	200	24,704
June	31,444	211	31,655	24,449	182	24,631
July	31,560	205	31,765	23,898	198	24,096
August	31,621	209	31,830	23,856	205	24,061
September	30,992	207	31,199	23,429	197	23,626
October	29,873	200	30,073	22,832	188	23,020
November	29,181	193	29,374	22,906	168	23,074
December	28,036	193	28,229	22,871	169	23,040
Average	30,300	210	30,510	24,205	190	24,395

TABLE 49. Capital and Repair Expenditures in the Primary Iron and Steel Industry, 1950-1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
Thousands of dollars							
1950.....	1,704	5,225	6,929	5,914	17,976	23,890	30,819
1951.....	28,945	21,366	50,311	5,501	27,764	33,265	83,576
1952.....	20,517	52,381	72,898	6,308	31,428	37,736	110,634
1953.....	11,914	38,011	49,925	7,156	38,563	45,719	95,644
1954 ¹	5,126	27,185	32,311	5,385	31,269	36,654	68,965

1. Preliminary.

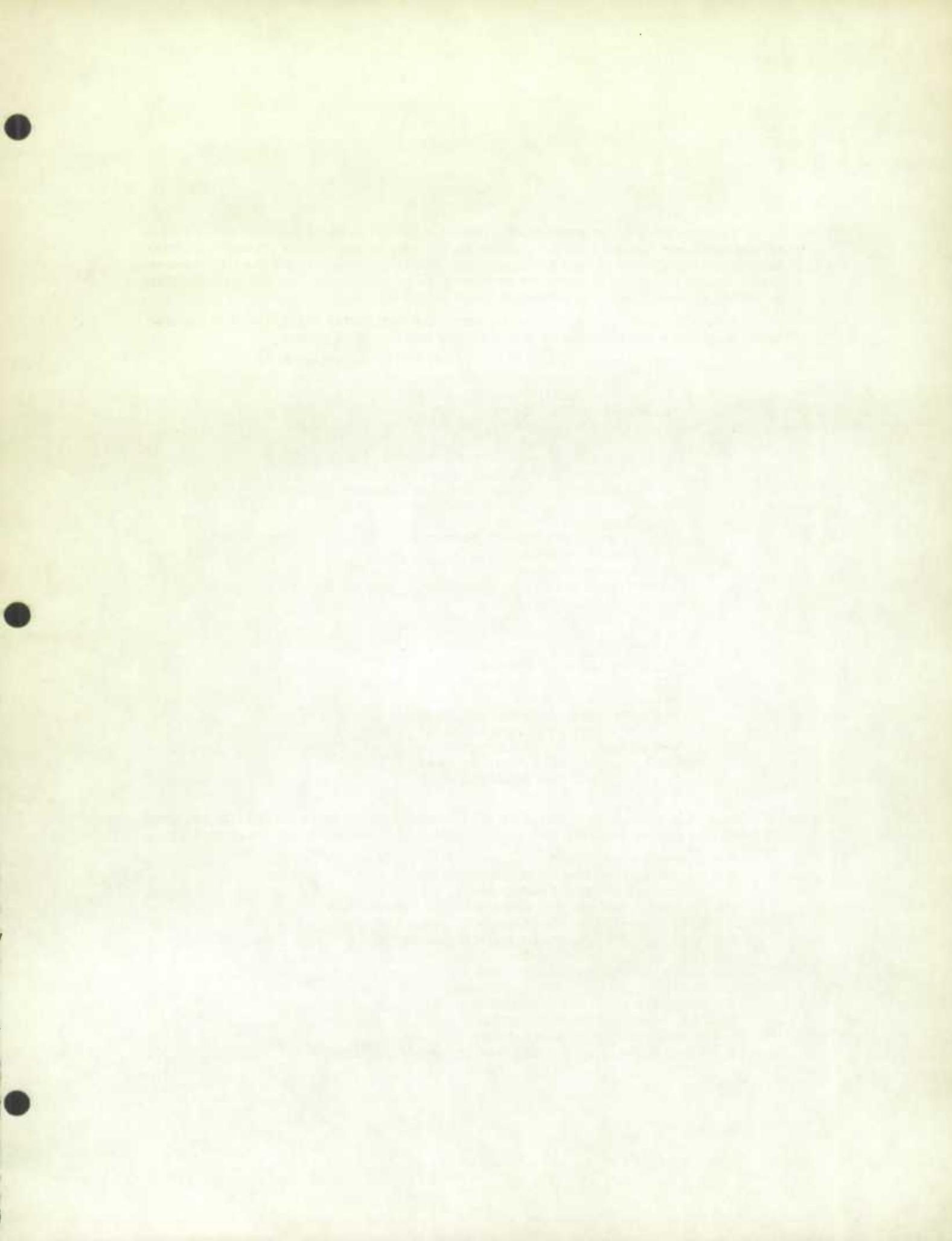
Directory of Firms in the Primary Iron and Steel Industry, 1954

Name of firm	Location of plant
(a) Pig Iron:	
Dominion Iron & Steel, Limited.....	Sydney, Nova Scotia
Algoma Steel Corporation, Limited.....	Sault Ste. Marie, Ontario
Canadian Furnace Limited.....	Port Colborne, Ontario
Dominion Foundries & Steel, Limited	Depew St., Hamilton, Ontario
Steel Company of Canada, Limited.....	Hamilton, Ontario
(b) Ferro-alloys¹:	
Chromium Mining & Smelting Corporation, Limited	Sault Ste. Marie, Ontario
Electro Metallurgical Company, Division of Union Carbide Canada Ltd.	Welland, Ontario; Beauharnois, Quebec
Electro-Reagents (Quebec) Limited	Beauharnois, Quebec
(c) Steel Ingots and Steel Castings:	
Maritime Steel Foundries, Limited.....	379 Glasgow St., New Glasgow, Nova Scotia
Dominion Iron & Steel, Limited.....	Sydney, Nova Scotia
Canadian Unitcast-Steel, Ltd.....	101 Belvedere St., Sherbrooke, Quebec
Canadian Car & Foundry Company, Limited.....	Longue Pointe, Montreal, Quebec
Canadian Tube & Steel Products, Limited	5900 St. Patrick St., Montreal, Quebec
Dominion Brake Shoe Company, Limited.....	Laval St., Joliette, Quebec
Dominion Engineering Works Limited.....	Lachine, Quebec
Eastern Electro-Castings Co. Ltd.....	Lachine, Quebec
La Compagnie F.X. Drolet.....	206, rue du Pont, Québec, Québec
Lynn MacLeod Metallurgy Limited.....	Notre Dame St., Thetford Mines, Quebec
Manganese Steel Castings, Limited.....	Abenaquis St., Sherbrooke, Quebec
Shawinigan Chemicals, Limited (Stainless Steel Division)...	Shawinigan Falls, Quebec
Sorel Industries Ltd.....	Sorel, Quebec
Sorel Steel Foundries, Limited.....	7 Limoges St., Sorel, Quebec
Algoma Steel Corporation, Limited.....	Sault Ste. Marie, Ontario
Atlas Steels, Limited.....	East Main St., Welland, Ontario
Burlington Steel Company, Limited	Sherman Avenue North, Hamilton, Ontario
Canada Electric Castings, Limited	West St., Orillia, Ontario
Dominion Foundries & Steel, Limited	Depew St., Hamilton, Ontario
Fahr alloy, Canada Limited	Barrie Road, Orillia, Ontario
Ford Motor Company of Canada, Limited.....	Windsor, Ontario
Hayward Tyler of Canada, Ltd.....	Kitchener, Ontario
Kennedy & Sons, Limited, The W.n.	Second Avenue West, Owen Sound, Ontario
Sheepbridge Engineering (Canada) Ltd.....	Guelph, Ontario
Steel Company of Canada, Limited.....	Wilcox St., Hamilton, Ontario
Welland Electric Steel Foundry Limited	123 Victoria St., Welland, Ontario
Manitoba Rolling Mill Company, Limited.....	Selkirk, Manitoba
Manitoba Steel Foundries, Limited.....	Selkirk, Manitoba
Vulcan Iron & Engineering Works, Ltd. ²	Sutherland and Maple Sts., Winnipeg, Manitoba
Foothills Steel Foundry & Iron Works	1439-17th Ave. East, Calgary, Alberta
Riverside Iron & Engineering Works, Limited.....	803-24th Ave. S.E., Calgary, Alberta
Britannia Mining and Smelting Company, Limited	Britannia Beach, British Columbia
Canadian Sumner Iron Works, Limited.....	East Broadway, Vancouver, British Columbia
Consolidated Mining & Smelting Company of Canada, Limited	Tadanac, British Columbia
Reliance Foundry Company, Limited.....	149 Fourth Avenue West, Vancouver, British Columbia

Directory of Firms in the Primary Iron and Steel Industry, 1954—Concluded

Name of firm	Location of plant
(c) Steel Ingots and Steel Castings—concluded:	
Vancouver Iron Works, Limited.....	519 Sixth Avenue West, Vancouver, British Columbia
A-1 Steel & Iron Foundry Ltd.	29 West 3rd Ave., Vancouver, British Columbia
Victoria Machinery Depot Co. Ltd.	33 Dallas Road, Victoria, British Columbia
Vancouver Steel Co. Ltd.	Granville Island, Vancouver, British Columbia
(d) Hot-rolled Iron and Steel:	
Enamel & Heating Products Ltd.	Amherst, Nova Scotia
Dominion Iron & Steel, Limited	Sydney, Nova Scotia
Canadian Tube & Steel Products, Limited.....	5900 St. Patrick St., Montreal, Quebec
Steel Company of Canada, Limited	2320 Notre Dame St. W., Montreal, Quebec
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ontario
Atlas Steels, Limited.....	Welland, Ontario
Burlington Steel Company, Limited.....	Sherman Ave. North, Hamilton, Ontario
Dominion Foundries & Steel, Limited.....	Depew Street, Hamilton, Ontario
Steel Company of Canada, Limited	Wilcox Street, Hamilton, Ontario
Vanadium Alloys Steel Canada Limited	London, Ontario
Manitoba Rolling Mill Company, Limited	Selkirk, Manitoba
Vancouver Rolling Mills Ltd.	Vancouver, British Columbia
(e) Cold-rolled Steel:	
Stanley Steel Company, Limited.....	57 Gerrard St., Hamilton, Ontario
(f) Cold-drawn Steel:	
Canadian Drawn Steel Company, Limited.....	Gerrard St., Hamilton, Ontario
Union Drawn Steel Company, Limited.....	Burlington St. E., Hamilton, Ontario

1. Not including the firms which made ferro-alloys as a secondary product.
 2. Discontinued operations in July, 1954.







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