CANADA

THE PRIMARY IRON AND STEEL INDUSTRY

1955

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
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Published by Authority of
The Right Honourable C. D. Howe, Minister of Trade and Commerce

6512-624-125 Price 25 cents Vol. 2—Part XII—J-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1957.

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, 50¢
- Section C. Quebec, 25¢
- Section D. Ontario, 25¢
- Section E. Prairie Provinces, 40¢
- 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
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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

1955

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-eight firms were included in this industry in 1955 and reports were received from 63 different plants or departments, including 5 blast furnace departments, 4 ferro-alloy plants, 38 steel furnace divisions and 16 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 37.4 per cent higher in value in 1955 than in 1954, the totals being $526,318,453 and $383,154,196 respectively. Eighteen plants in Ontario (comprising 26 separate plants or departments) accounted for 78.3 per cent of the total for Canada, or $412,013,769; 15 plants in Quebec (comprising 16 separate plants or departments) accounted for 10.2 per cent, or $53,577,923; 3 plants in Nova Scotia (comprising 5 separate plants or departments) for 8.3 per cent, or $43,561,192, while the remaining $17,165,569 or 3.2 per cent was accounted for by 14 plants in Manitoba, Alberta and British Columbia (comprising 16 separate plants or departments).

In 1955 a total of 32,507 people was employed in this industry, an increase of 12.6 per cent over the 1954 total of 28,861. Seventy-two per cent of the employees, or 23,369, worked in plants in Ontario, 4,089 in Nova Scotia, 3,689 in Quebec and 1,360 in Manitoba, Alberta and British Columbia. Payments in salaries and wages during 1955 amounted to $136,879,403, an increase of 25.8 per cent over the previous year's total of $108,817,430. Most of the increase was accounted for by wages which rose to $113,770,485 from $87,349,858. Salaries advanced to $23,108,918 from $21,467,572.

Materials used in manufacturing processes cost $212,288,266 in 1955 compared with $145,110,350 in 1954, and the cost of fuel and electricity was $31,182,580 as against $23,730,461, a 44.2 per cent increase in the expenditures for materials, fuel and power.

PIG IRON

Output of 3,215,367 net tons of pig iron in 1955 was 45.4 per cent higher than the 2,211,029 tons reported for the previous year. Production of basic iron amounted to 2,591,662 tons or 80.6 per cent of the total; foundry iron amounted to 176,710 tons and malleable iron to 446,995 tons.

Producers' sales of pig iron totalled 609,978 tons at $30,539,000 compared with 455,552 tons at $22,142,040 in 1954.

Charges to iron blast furnaces during the year included 3,837,301 tons of imported ore, 1,474,081 tons of Canadian ore, 2,817,048 tons of coke and 1,067,697 tons of limestone.

Imports of pig iron during the calendar year declined to 14,518 tons from the 20,009 tons in 1954. Exports recovered to 254,472 tons from 202,603 tons reported in the previous year.

Producers' stocks of pig iron at the end of 1955 totalled 136,415 tons compared with 127,894 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 2,966,892 tons in 1955, or about 45.7 per cent higher than in 1954 when the apparent domestic supply was 2,036,322 tons.

Producers of pig iron in Canada had 16 blast furnaces at the end of 1955 which could produce 3.88 million net tons if operated at rated capacity. Actual production at 3,215,367 net tons in 1955 showed an operating rate of about 83 per cent. Twelve furnaces were in blast at the year-end.

FERRO-ALLOYS

Ferro-alloys were made in 1955 by 10 establishments, 5 of which recovered ferrosilicon as a by-product in the manufacture of abrasives. Output of ferro-alloys in 1955 amounted to 189,805 tons, an increase of 63.4 per cent over the 116,141 tons reported in 1954.

Altogether, ferrosilicon was made in nine different plants, ferrochrome-silicon in two, ferrochrome in two, ferromanganese in two, silicomanganese in two and ferrophosphorus in one.

STEEL INGOTS AND CASTINGS

Steel production rose by about 42 per cent to 4,534,672 tons in 1955 from 3,195,030 tons in 1954, the output of steel ingots increasing to 4,446,341 tons from 3,113,791 tons, while castings production advanced to 88,331 tons from 81,239 tons. Factory sales of ingots and castings totalled 201,114 tons at $43,682,247.

Thirty-eight steel plants were in operation during the year. At the end of 1955 these plants had 127 furnaces, including 41 basic open-hearth furnaces with an annual rated capacity of 4,127,200 tons, 82 electric furnaces rated at 1,036,900 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 1955 used 2,554,433 net tons of pig iron, 2,366,107 tons of scrap iron or steel, 405,709 tons of iron ore, 219,147 tons of limestone, 182,803 tons of dolomite, 137,216 tons of lime, 53,082 tons of silica sand, 10,230 tons of magnesite and 57,313 tons of ferro-alloys.

ROLLED AND DRAWN STEEL

In 1955 there were 13 mills occupied chiefly in hot-rolling of steel products and 3 mills making only cold-drawn and cold-rolled shapes. Of course, some of the former also cold-rolled steel as part of their operations. Nine of these mills were in Ontario, 2 in Nova Scotia, 2 in Quebec and 1 each in Manitoba, Alberta and British Columbia.

Rolling mill sales increased 38.7 per cent to $418,649,586 from $301,925,589 in 1954. The main items sold during the year under review were 621,819 tons of hot-rolled bars at $79,841,771; 251,870 tons of plates at $26,162,331; 325,749 tons of rails and rail fastenings at $31,611,213; 298,646 tons of semi-finished forms, such as blooms, billets, etc., at $23,114,634; 240,105 tons of structural shapes at $25,650,273; 362,258 tons of wire rods at $33,296,084 (see footnote 2); 45,261 tons of cold-reduced bars at $12,252,299; and other rolled products, including hot and cold rolled sheets and strip, skelp, sheet piling, tin plate, galvanized sheets, etc., totalling 1,352,280 tons at $180,468,100.

Note: Three major changes in concept affecting the data for this industry were introduced 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 and 1955 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 for 1954 and 1955 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 and 1955 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 years 1954 and 1955 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 and in 1955 about $21,000,000.

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 and 1955 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, 1955

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	7	2	–
Quebec	15	–	–	12	24	2	2
Ontario	18	4	13	11	75	9	2
Manitoba	2	–	–	2	6	1	–
Alberta	3	–	–	3	3	1	–
British Columbia	9	–	–	8	12	1	–
Canada	**50**[2]	**5**	**16**	**38**	**127**	**16**	**4**

1. Not including artificial abrasive plants which made ferrosilicon as a by-product.
2. Only 48 separate firms were included in this industry in 1955; however, two of these operated plants in both Ontario and Quebec.

TABLE 2. Principal Statistics of the Primary Iron and Steel Industry, Significant Years, 1929-1955 and by Provinces, 1954 and 1955

Year and province	Establishments	Employees	Salaries and wages	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
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	239,901,158	233,577,318	504,000,394
1953	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**	**217,487,185**	**383,154,196**[2]
1955							
Nova Scotia	3	4,089	14,542,200	2,415,033	18,838,833	17,925,406	43,561,192
Quebec	15	3,689	14,368,957	3,021,747	16,693,689	34,025,151	53,577,923
Ontario	18	23,369	102,907,093	24,807,449	171,581,869	228,709,663	412,013,769
Manitoba	2	1,360	5,061,153	938,351	5,173,875	11,132,906	17,165,569
Alberta	3						
British Columbia	9						
Canada	**50**[1]	**32,507**	**136,879,403**	**31,182,580**	**212,288,266**	**291,793,126**	**526,318,453**[2]

1. See footnote 1 of introductory text.
2. See footnote 2 of introductory text.
3. See footnote 3 of introductory text.

TABLE 3. Inventories[1], 1955

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	$	$	$	$
Opening:				
Nova Scotia	7,454,000	2,865,000	1,643,218	11,962,218
Quebec	3,298,338	1,417,582	2,208,051	6,923,971
Ontario	33,202,861	15,346,594	19,983,636	68,533,091
Manitoba	1,820,113	325,000	88,319	2,233,432
Alberta and British Columbia	682,958	301,106	275,297	1,259,361
Canada	**46,458,270**	**20,255,282**	**24,198,521**	**90,912,073**
Closing:				
Nova Scotia	5,835,650	1,190,899	553,749	7,580,298
Quebec	3,776,637	1,853,433	1,456,565	7,086,635
Ontario	40,316,578	21,415,472	19,886,253	81,618,303
Manitoba	1,461,236	448,118	121,308	2,030,662
Alberta and British Columbia	860,223	318,012	363,459	1,541,694
Canada	**52,250,324**	**25,225,934**	**22,381,334**	**99,857,592**

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.
(b) The opening inventory for 1955 does not necessarily agree with the closing inventory for 1954 because of revisions, such as the addition of new plants, the transfer of plants to other industries and plants going out of business. Furthermore, the figures in 1954 included a blow-up for a few firms. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

(a) PIG IRON

TABLE 4. Production of Pig Iron and Sales by Producers, 1954 and 1955

Grade	Delivered in molten condition	Machine-cast	Total tonnage made	Sales	
				Quantity	Income from sales
	Net tons				$
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**
1955					
Basic	2,422,387	169,275	2,591,662	19,955	974,624
Foundry[1]	—	176,710	176,710	163,250	8,138,269
Malleable	652	446,343	446,995	426,773	21,426,107
Total	**2,423,039**	**792,328**	**3,215,367**	**609,978**	**30,539,000**

1. Includes silvery pig.

PRODUCTION OF IRON AND STEEL IN CANADA, 1945-1955

(THOUSAND NET TONS)

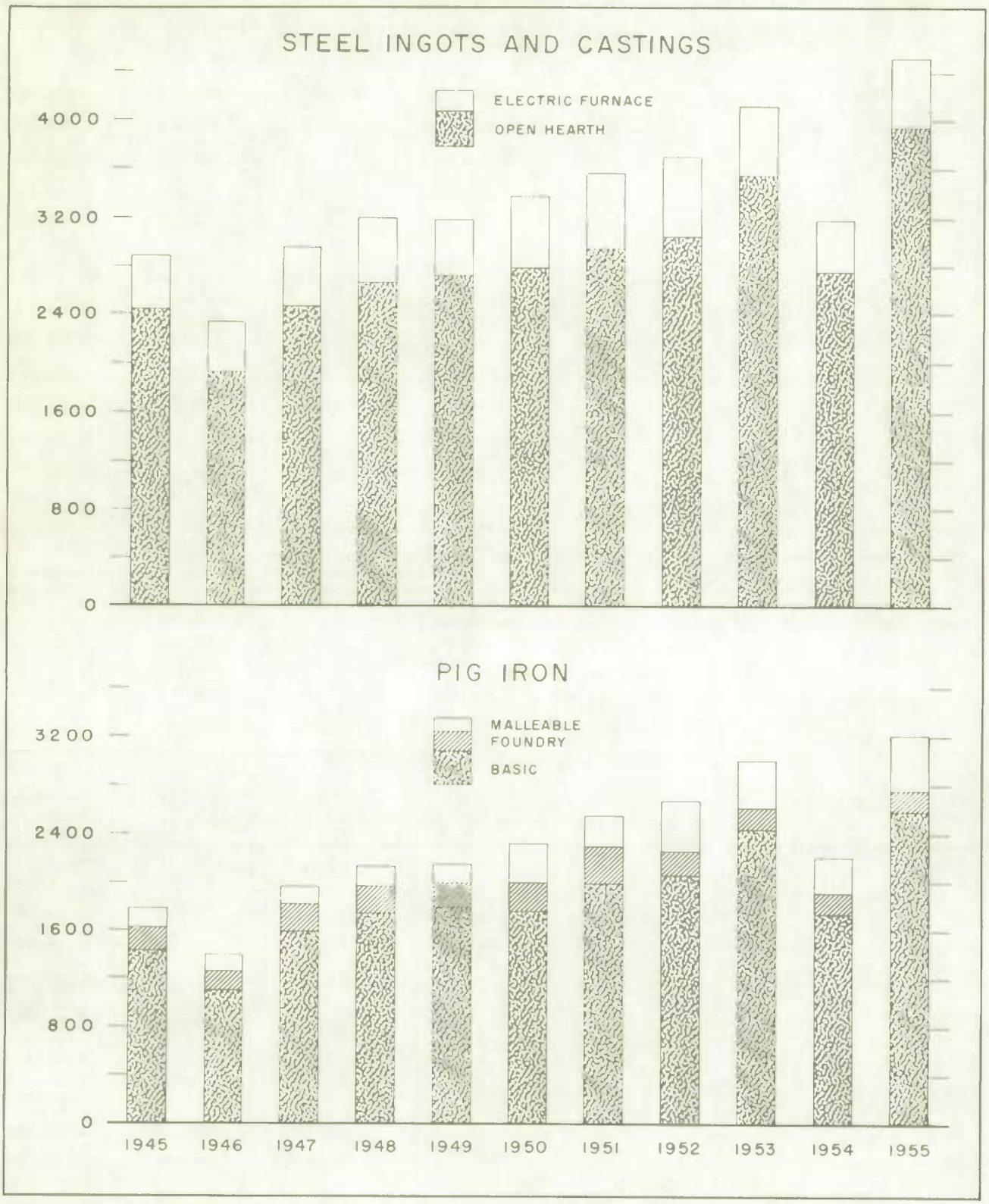

TABLE 5. Materials Charged to Iron Blast Furnaces, 1954 and 1955

Material	1954		1955	
	Quantity	Cost at furnace	Quantity	Cost at furnace
	Net tons	$	Net tons	$
Iron ore:				
Canadian (crude)	485, 429	3, 445, 859	900, 875	7, 258, 208
Imported (crude)	2, 961, 282	24, 550, 338	3, 837, 301	31, 997, 175
Canadian (beneficiated)	302, 398	2, 676, 186	573, 206	5, 204, 150
Imported (beneficiated)	—	—	—	—
Mill cinder, roll scale, flue dust, etc.	577, 577	4, 526, 604	706, 053	5, 760, 563
Scrap (net charge)	82, 399	856, 654	125, 845	1, 226, 914
Limestone	778, 200	1, 650, 941	1, 067, 697	2, 239, 528
Dolomite	258, 463	406, 297	286, 485	447, 178
Coke	1, 969, 669	27, 407, 771	2, 817, 048	37, 798, 907
Other materials	—	465, 991	—	536, 320
Total	—	**65, 986, 641**	—	**92, 468, 943**

TABLE 6. Production[1] of Pig Iron, by Grades, 1946-1955

Year	Basic	Foundry	Malleable	Total
	Net tons			
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
1955	2, 591, 662	176, 710	446, 995	3, 215, 367

1. See footnote to Table 17.
2. Includes 1,272 tons produced in British Columbia by an electric furnace process.

TABLE 7. Production[1] of Pig Iron, by Provinces, 1946-1955

Year	Nova Scotia	Ontario	Total
	Net tons		
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
1955	402, 759	2, 812, 608	3, 215, 367

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, 1954 and 1955

Month	1954			1955		
	For own use	For sale	Total	For own use	For sale	Total
	Net tons					
January	197, 411	17, 588	214, 999	181, 885	17, 579	199, 464
February	161, 604	20, 446	182, 050	194, 284	20, 791	215, 075
March	180, 757	20, 006	200, 763	256, 406	19, 323	275, 729
April	150, 900	43, 407	194, 307	223, 812	48, 375	272, 187
May	129, 639	49, 103	178, 742	223, 879	60, 197	284, 076
June	122, 592	44, 619	167, 211	214, 868	60, 181	275, 049
July	131, 216	43, 187	174, 403	216, 353	50, 442	266, 795
August	120, 215	46, 365	166, 580	209, 224	79, 640	288, 864
September	110, 312	46, 061	156, 373	199, 127	77, 668	276, 795
October	135, 358	46, 537	181, 895	222, 312	71, 111	293, 423
November	151, 760	58, 716	210, 476	208, 878	75, 494	284, 372
December	163, 713	19, 517	183, 230	254, 361	29, 177	283, 538
Total	**1, 755, 477**	**455, 552**	**2, 211, 029**	**2, 605, 389**	**609, 978**	**3, 215, 367**

TABLE 9. Sales of Pig Iron by Producers, 1946-1955

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
		$			$
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
1950	636, 558	27, 484, 529	1955	609, 978	30, 539, 000

TABLE 10. Iron ore, Fuel and Flux Charged to Iron Blast Furnaces, 1946-1955

Year	Iron ore	Mill cinder, scale, etc.	Iron and steel scrap	Coke	Limestone	Dolomite
	Net tons					
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
1955	5, 311, 382	706, 053	125, 845	2, 817, 048	1, 067, 697	286, 485

TABLE 11. Imports into Canada and Exports of Pig Iron, 1946-1955

Year	Imports		Exports	
	Net tons	Value	Net tons	Value
		$		$
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
1955	14,518	989,657	254,472	13,272,635

TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1946-1955

Year	Net tons	Year	Net tons
1946	52,112	1951	81,220
1947	44,976	1952	58,959
1948	31,391	1953	135,781
1949	71,231	1954	127,894
1950	85,372	1955	136,415

TABLE 13. Apparent Supply of Pig Iron in Canada, 1946-1955

Year	Production	Add imports	Deduct exports	Add or deduct changes in producers' stocks[1]	Apparent supply[2]
	Net tons				
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
1955	3,215,367	14,518	254,472	- 8,521	2,966,892

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, 1952-1955 (As reported by consumers)

	1952	1953	1954	1955[1]
	Net tons			
(a) By Industries				
Steel ingots and castings	1,958,258	2,311,378	1,767,307	2,554,433
Iron castings	204,295	204,687	160,876	213,065
Boilers and platework	25,577	24,869	19,587	23,599
Agricultural implements	27,914	12,798	7,841	9,650
Machinery	27,868	20,638	18,924	18,062
Motor vehicles	7,576	9,140	2,772	5,401
Motor vehicle parts	25,071	31,880	20,457	27,553
Railway rolling stock	17,945	9,797	4,679	3,363
Brass and copper products	3,626	4,075	4,353	3,072
Shipbuilding	834	863	541	508
Hardware and tools	1,849	1,581	1,695	1,766
Miscellaneous iron and steel	12,790	15,338	11,853	13,557
Heating and cooking apparatus	14,861	12,909	9,045	7,830
Electrical apparatus and supplies	8,104	6,182	3,612	3,911
Bridge and structural steel	1,353	1,468	711	1,173
Total	**2,337,921**	**2,667,603**	**2,034,253**	**2,886,943**
(b) By Provinces				
Prince Edward Island and Newfoundland	30	31	10	28
Nova Scotia	400,807	430,981	318,174	405,704
New Brunswick	2,954	3,136	3,144	3,165
Quebec	86,058	75,365	65,995	73,962
Ontario	1,839,201	2,150,328	1,640,588	2,394,719
Manitoba	6,597	6,172	5,231	5,769
Saskatchewan	488	—	—	—
Alberta	506	471	536	550
British Columbia	1,280	1,119	575	3,046
Canada	**2,337,921**	**2,667,603**	**2,034,253**	**2,886,943**

1. Preliminary.

TABLE 15. Blast Furnaces in Canada, 1953-1955

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast		
				1953	1954	1955
Dominion Foundries & Steel Ltd.	Hamilton, Ont.	1	320,000	365	365	365
	Total	**1**	**320,000**	—	—	—
Dominion Iron & Steel Limited	Sydney, Nova Scotia	1	193,000	365	255	344
		1	212,000	322	365	365
		1	139,000	365	39	—
	Total	**3**	**544,000**	—	—	—
Canadian Furnace Company, Limited	Port Colborne, Ont.	1	200,000	303	141	329
		1	73,000	59	—	—
	Total	**2**	**273,000**	—	—	—
The Steel Company of Canada, Limited	Hamilton, Ont.	1	123,000	304	210	364
		1	271,000	312	127	364
		1	377,000	365	354	362
		1	470,000	364	362	362
	Total	**4**	**1,241,000**	—	—	—
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	114,000	199	—	132
		1	109,000	100	—	303
		1	218,000	254	—	—
		1	177,000	336	57	365
		1	440,000	358	323	319
		1	440,000	164	362	315
	Total	**6**	**1,498,000**	—	—	—
Total for Canada		**16**	**3,876,000**	—	—	—

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	1955
	000's of net tons				
United States	72,449	63,354	77,250	59,806	79,264
Canada	2,754	2,880	3,206	2,318	3,334
Mexico	224	264	287	250	115
Brazil	837	899	979	1,170	1,148
Chile	271	298	316	336	264
Austria	1,157	1,293	1,467	1,494	1,638
Belgium	5,349	5,277	4,648	5,092	5,892
Luxemburg	3,481	3,392	3,002	3,086	3,401
France	9,639	10,772	9,553	9,851	12,126
Saar	2,610	2,811	2,626	2,754	3,164
Italy	1,156	1,327	1,350	1,483	1,941
Netherlands	577	594	654	673	740
Norway	268	293	297	256	357
Sweden	938	1,160	1,109	1,042	1,263
Finland	112	119	88	82	128
United Kingdom	10,829	12,014	12,510	13,306	14,015
Spain	737	862	934	1,019	1,084
Hungary	661	716	840	896	932
Germany – Western	11,791	14,291	12,846	13,869	18,108
Eastern	352	375	1,177	1,736	1,979
Russia	23,000	27,000	30,352	33,069	37,037
Czechoslovakia	2,375	2,480	3,192	3,248	3,605
Poland	1,738	1,818	2,531	2,867	3,269
Rumania	386	397	504	560	790
Yugoslavia	289	306	309	405	569
Union of South Africa	887	1,241	1,353	1,319	1,431
Australia	1,495	1,587	2,057	2,082	1,990
Turkey	171	212	321	216	217
India	2,043	2,062	1,990	2,174	2,114
Japan	3,557	3,953	5,129	5,237	5,948
Other countries	100	136	334	1,640	142
Total	**162,234**	**164,183**	**183,121**	**173,338**	**208,005**

(b) FERRO-ALLOYS

TABLE 17. Production[2] of Ferro-alloys[1], 1946-1955

Year	Net tons	Year	Net tons
1946	139,392	1951	266,252
1947	227,123	1952	232,117
1948	232,734	1953	153,660
1949	202,092	1954	116,141
1950	180,499	1955	189,805

1. Figures in the above table up to 1949 include production of silvery pig iron; since 1950, however, tonnages of the latter are included with pig iron.
2. Factory shipments since 1953.

TABLE 18. Producers of Ferro-alloys, 1955

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 (b) Welland, Ontario	Ferrosilicon Ferrosilicon, ferrochrome, ferromanganese, silico-manganese, ferrochrome-silicon
Electro-Reagents (Quebec) Limited	Beauharnois, Quebec	Ferrosilicon
Electric Reduction Company of Canada, Limited	Buckingham, Quebec	Ferrophosphorus
Exolon Company	Thorold, Ontario	Ferrosilicon (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, 1954 and 1955

	1954			1955		
	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]	2,727,730	1,448	93,228	3,917,151	115,227	7,351,708
Electric	386,061	4,128	928,265	529,190	2,500	514,317
Total steel ingots	**3,113,791**	**5,576**	**1,021,493**	**4,446,341**	**117,727**	**7,866,025**
Steel castings:						
Basic open-hearth	22,364	21,683	10,000,486	25,953	23,309	9,426,494
Converter	95	126	78,572	165	151	108,572
Electric	58,780	58,681	24,334,162	62,213	59,927	26,281,156
Total steel castings	**81,239**	**80,490**	**34,413,220**	**88,331**	**83,387**	**35,816,222**
Total steel ingots and castings	**3,195,030**	**86,066**	**35,434,713**	**4,534,672**	**201,114**	**43,682,247**
Any other products	–	–	512,609	–	–	650,768
Total all products	**–**	**–**	**35,947,322**	**–**	**–**	**44,333,015**
Alloy steel included in above:						
Ingots	132,976	3,701	858,502	217,207	1,211	353,433
Castings	20,852	20,956	11,159,331	21,928	21,141	12,118,415
Total	**153,828**	**24,657**	**12,017,833**	**239,135**	**22,352**	**12,471,848**

1. Includes production from oxygen vessels.

TABLE 20. Materials Used in Steel Furnaces, 1954 and 1955

Material	1954		1955	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
	Net tons	$	Net tons	$
Pig iron:				
Own make	1,759,610	–	2,545,522	–
Purchased	7,697	421,881	8,911	461,456
Scrap iron or steel:				
Own make	968,044	–	1,227,403	–
Purchased	661,822	17,579,528	1,138,704	36,307,334
Spiegeleisen	319	29,245	550	43,650
Ferromanganese:				
High carbon	22,657	4,462,674	28,958	5,584,443
Medium carbon	167	69,020	243	99,431
Low carbon	1,488	599,273	3,157	1,238,213
Silicomanganese	4,940	1,102,863	6,962	1,535,894
Sil-x	166	37,347	264	59,501
Ferrosilicon:				
15%	267	20,533	300	23,211
25%	83	11,384	–	–
50%	6,440	714,956	8,184	895,185
75%	189	46,168	342	85,931
85-90%	141	37,396	265	68,635
Ferrochrome (including chrom-x):				
High carbon	1,475	382,295	2,234	639,270
Low carbon	2,025	1,027,110	4,172	2,012,535
Ferromolybdenum	70	119,655	77	143,977
Ferrophosphorus	207	19,250	193	18,687
Ferroselenium	7	51,559	10	92,344
Ferrotitanium	171	50,166	156	48,074
Ferrotungsten	38	118,280	53	196,376
Ferrovanadium	47	168,905	77	278,921
Ferrozirconium	27	7,172	47	18,439
Calcium silicon	148	62,847	191	85,685
Calcium manganese silicon	163	75,005	134	61,843
Other ferro-allays	609	227,143	1,069	386,139
Aluminum ingot and shot	997	410,474	1,253	626,369
Copper ingots, cakes, shot, etc.	287	148,353	339	231,580
Nickel	1,078	1,238,919	2,146	2,681,173
Other metals	20	25,016	49	64,202
Ore, iron	203,119	3,363,744	405,709	5,615,888
Ore, manganese	–	–	–	–
Ore, chrome	641	40,014	1,110	71,811
Ore, tungsten	12	22,196	40	103,339
Bentonite	3,434	113,674	4,786	155,776
Coal:				
Anthracite	271	8,699	506	12,649
Bituminous	–	–	–	–
Coke	1,802	42,839	2,679	49,279
Charcoal	71	5,401	54	4,060
Dolomite:				
Crude	87,721	242,269	96,383	248,465
Calcined	48,266	1,165,247	86,420	2,118,600
Fluorspar	16,002	534,703	18,610	577,438
Ganister	3,817	17,827	3,990	23,353
Graphite	537	60,697	808	84,807
Lime	81,443	1,020,317	137,216	1,756,872
Limestone	182,972	462,615	219,147	530,324
Magnesite	9,940	546,026	10,230	606,638
Electrodes	–	1,236,103	–	1,751,703
Silica sands:				
For moulds	73,403	614,271	52,874	522,129
For sand-blasting	515	17,882	208	13,716
Other foundry sands	9,498	42,616	3,841	43,771
Sulphur	50	4,562	65	5,731
Firebrick, fireclay and other refractories	–	5,058,239	–	6,708,084
Calcium molybdate	25	29,397	11	16,352
Molybdenum trioxide (molybdic oxide) briquettes	219	260,623	442	561,770
All other materials	–	4,030,157	–	2,936,316
Total value of purchased metals, ores and other materials used	–	**48,204,535**	–	**78,507,369**

TABLE 21. Production of Steel Ingots and Steel Castings, by Grades, 1946-1955

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open-hearth	Electric	Open-hearth	Converter	Electric	
	Net tons					
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[1]	386,061	22,364	95	58,780	3,195,030
1955	3,917,151[1]	529,190	25,953	165	62,213	4,534,672

1. Includes production from oxygen vessels.

TABLE 22. Production of Steel Ingots and Steel Castings, by Months, 1951-1955

Month	1951	1952	1953	1954	1955
	Net tons				
January	309,653	315,034	346,648	298,900	316,814
February	281,380	303,365	326,063	266,911	321,237
March	314,826	336,896	366,974	249,290	384,614
April	312,005	314,141	362,291	255,796	360,754
May	313,312	328,024	368,967	260,351	378,877
June	293,515	305,455	352,463	271,993	389,268
July	274,602	293,072	323,385	260,454	360,765
August	286,804	286,998	338,703	241,504	386,730
September	268,230	284,996	329,344	247,358	374,472
October	309,414	306,104	362,498	279,320	417,266
November	307,075	306,274	332,703	287,173	415,477
December	297,904	322,752	306,029	275,980	428,398
Total	**3,568,720**	**3,703,111**	**4,116,068**	**3,195,030**	**4,534,672**

TABLE 23. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1946-1955

Year	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
	Net tons						
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	3,195,030
1955	583,340	99,122	3,716,833	84,055	5,042	46,280	4,534,672

TABLE 24. Sales of Steel Ingots and Steel Castings by Producers, 1946-1955

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	Net tons	$		Net tons	$
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
1950	313,780	38,652,613	1955	201,114	43,682,247

TABLE 25. Production of Alloy Steel Ingots and Castings, 1946-1955

Year	Ingots	Castings	Total
	Net tons		
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
1955	217,207	21,928	239,135

TABLE 26. Metal, Ore and Flux Charged to Steel Furnaces, 1946-1955

Year	Pig iron	Ferro-manganese alloys [1]	Other ferro-alloys	Scrap iron and steel	Iron ore	Limestone	Dolomite	Fluorspar
	Net tons							
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
1955	2,554,433	39,870	17,443	2,366,107	405,709	219,147	182,803	18,610

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

TABLE 27. Steel Furnaces in Canada, December 31, 1955

	Type	Number of units	Size	Total annual capacity
			Net tons	
Nova Scotia:				
Dominion Iron & Steel Limited, Sydney	O.H.	1	130	99,800
	O.H.	2	175	255,600
	O.H.	2	190	259,600
	Elec.	1	11	35,000
Total	—	**6**	—	**650,000**
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	82,800
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	5	15,000
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**	—	**1,120,000**[1]
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, 1955 – Concluded

	Type	Number of units	Size	Total annual capacity
			Net tons	
Ontario—concluded:				
Fahralloy 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	1	4,400
Total	–	**17**	–	**103,000**
The Indiana Steel Products Co. of Canada, Ltd., Kitchener	Elec.	2	½	800
William Kennedy and Sons Ltd., Owen Sound	Elec.	1	1¾	2,400
	Elec.	1	4	8,000
Total	–	**2**	–	**10,400**
Steel Company of Canada, Hamilton	O.H.	4	113	377,000
	O.H.	5	188	680,600
	O.H.	4	301	982,400
	Elec.	1	91	110,000
Total	–	**14**	–	**2,150,000**
Welland Electric Steel Foundry Ltd., Welland	Elec.	1	2	
	Elec.	1	1	2,500
	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 Foundries & Steel Ltd., Selkirk	Elec.	1	5	4,000
	Elec.	1	3	3,000
Total	–	**2**	–	**7,000**
Alberta:				
Riverside Iron & Engineering Works Ltd., Calgary	Elec.	1	1½	1,300
Foothills Steel Foundry & Iron Works, Calgary	Elec.	1	½	3,600
Premier Steel Mills Ltd., Edmonton	Elec.	1	–	35,000
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 Summer Iron Works Ltd., Vancouver	Elec.	1	1	3,600

TABLE 28. Summary of Steel Furnace Capacity, December 31, 1955

	Number of furnaces	Total annual capacity
		Net tons
Basic open-hearth (including oxygen vessels)	43	4,477,200
Electric	82	1,036,900
Converter	2	4,800
Total	**127**	**5,518,900**
Steel ingots:		
Basic open-hearth (including oxygen vessels)	–	4,428,200
Electric	–	768,800
Total	–	**5,197,000**
Steel castings	–	321,900
Total ingots and castings	–	**5,518,900**

TABLE 29. Summary of Steel Furnace Capacity, by Provinces, December 31, 1951-1955

Province	Total annual capacity				
	1951	1952	1953	1954	1955
	Net tons				
Nova Scotia	716,000	716,000	737,000	545,000	653,000
Quebec	325,500	290,100	288,700	238,400	244,900
Ontario	2,820,875	3,642,975	3,774,875	4,219,075	4,380,800
Manitoba	66,700	66,700	115,600	118,000	121,000
Alberta	2,500	2,500	2,500	4,900	39,900
British Columbia	64,425	65,825	73,100	79,300	79,300
Canada	**3,996,000**	**4,784,100**	**4,991,775**	**5,204,675**	**5,518,900**

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	1955
	000's of net tons				
United States	105,200	93,168	111,610	88,312	117,036
Canada	3,508	3,659	4,104	3,158	4,500
Mexico	474	437	474	450	181
Argentina	276	280	336	339	407
Brazil	915	962	1,084	1,276	1,241
Austria	1,133	1,166	1,401	1,822	1,995
Belgium	5,515	5,504	4,846	5,462	6,426
Luxemburg	3,393	3,307	2,930	3,117	3,556
France	10,838	11,980	11,023	11,713	13,770
Saar	2,869	3,112	2,959	3,091	3,480
Italy	3,351	3,890	3,807	4,639	5,902
Netherlands	610	755	947	1,023	1,080
Sweden	1,657	1,803	1,944	2,051	2,324
United Kingdom	17,515	18,390	19,723	20,742	22,313
Spain	895	1,000	986	1,209	1,311
Yugoslavia	478	489	568	680	875
Germany – Western	14,885	17,422	16,997	19,219	23,503
Eastern	1,453	1,628	2,296	2,688	2,903
Russia	34,500	38,600	41,776	44,974	49,471
Czechoslovakia	3,651	3,853	4,738	5,096	5,708
Hungary	1,360	1,534	1,658	1,579	1,642
Poland	3,078	3,584	3,920	4,368	4,892
Rumania	705	762	795	829	1,028
Union of South Africa	1,108	1,388	1,366	1,523	1,553
Australia	1,606	1,841	2,295	2,488	2,446
Turkey	149	169	179	186	201
India	1,662	1,768	1,687	1,878	1,900
Japan	7,168	7,706	8,457	8,533	10,594
Other countries	959	2,720	3,539	3,368	2,737
Total	**230,910**	**232,876**	**258,445**	**245,812**	**294,975**

(d) ROLLED AND DRAWN STEEL

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1954 and 1955

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
	Net tons		$
1954			
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 shapes[2]	**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 bars[2]	**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. These tonnages not included prior to 1954 - see Footnote 2 of introductory Text.

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1954 and 1955 – Concluded

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
	Net tons		$
1955			
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	2,728,110	87,540	5,759,598
Blooms, billets, slabs and sheet bars, for export	136,809	140,293	10,793,256
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	77,806	70,813	6,561,780
Total semi-finished rolled forms	**2,942,725**	**298,646**	**23,114,634**
Rails	228,991	241,254	22,352,384
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	357,775	362,258[3]	33,296,084
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	155,346	163,106	17,110,107
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	76,792	76,999	8,540,166
Total structural steel shapes[2]	**232,138**	**240,105**	**25,650,273**
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	434,055	402,444	55,577,135
Bars for concrete reinforcing, including twisted and other deformed bars	218,684	219,375	24,264,636
Long angle splice bars, tie plate bars and all other long rail joint bars	89,755	–	–
Total hot-rolled bars[2]	**742,494**	**621,819**	**79,841,771**
Plates, all kinds, including boiler and other sheared plates	253,640	251,870	26,162,331
Skelp	247,701	244,529	22,198,890
Hot-rolled sheets and strip, sheet piling and all other hot-rolled forms	1,213,008	351,181	38,589,466
B. COLD-ROLLED AND COATED PRODUCTS			
Bars, cold-rolled and cold-drawn	45,195	45,261	12,252,299
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	1,114,618	756,570	119,679,744
C. OTHER PRODUCTS			
Rail fastenings – Splice bars or fish plates	15,582	16,812	1,986,547
Tie plates	66,856	67,683	7,272,282
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	–	–	6,252,881
Total value of production	–	–	**418,649,586**

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. These tonnages not included prior to 1954 – see Footnote 2 of introductory Text.

TABLE 32. Materials Used for All Purposes in Iron and Steel Rolling and Drawing Mills, 1954 and 1955

Material	Companies' own make	Purchased	
		Quantity	Cost at works
	Net tons		$
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**
1955			
Steel ingots	4,278,309	1,377	514,000
Steel blooms	–	–	–
Steel slabs	–	–	–
Steel billets	132,924	89,485	6,606,008
Steel bars	1,490	37,895	5,141,055
Rails, old	–	66,677	2,853,077
Axles, old	–	9,220	333,186
Scrap iron and steel, other	11,660	7,455	269,300
Tin	–	2,052	3,726,275
Zinc spelter	–	11,845	2,963,675
Palm oil	–	352	80,393
Ammonium chloride	–	339	59,694
Sulphuric acid, 100%	–	21,396	541,444
Hydrochloric acid	–	734	35,850
Silica sand	–	558	4,506
All other materials and supplies	–	–	6,556,835
Total	–	–	**29,685,298**

TABLE 33. Net Production[1] in Canada of Hot-rolled Iron and Steel Products, 1951-1955

	1951	1952	1953	1954	1955
	Net tons				
Blooms, billets and slabs	148,629	164,487	174,864	93,202	214,615
Rails	257,244	253,675	303,318	241,922	228,991
Rail fastenings	91,866	97,324	69,286	58,315	89,755
Wire rods	318,266	315,789	286,471	275,121	357,775
Structural shapes	228,092	220,616	272,220	183,542	232,138
Bars	671,139	689,648	662,989	470,206	652,739
Plates, sheets, hoops, bands and strips	1,058,751	1,075,263	1,258,607	1,028,587	1,448,196
Other hot-rolled forms	85,550	163,721	158,198[2]	163,876	266,153
Total	**2,859,537**	**2,980,523**	**3,185,953[2]**	**2,514,771**	**3,490,362**

1. Inter-mill shipments have been excluded.
2. Revised.

TABLE 34. Alloy Steel Products Made and Sold by Rolling Mills, 1954 and 1955

	1954		1955	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Bars	57,679	56,267	95,082	93,301
Other products, including plates, billets, forgings, sheet piling and wire rods, etc.	82,910	17,937	148,858	29,458
Total alloy steel	**140,589**	**74,204**	**243,940**	**122,759**

TABLE 35. Products Rolled from Old Rails, Axles, Etc., 1954 and 1955

	1954		1955	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Rails	—	—	—	—
Bars	49,116	48,463	57,705	55,105
Other products	4,238	3,635	9,373	9,079
Total	**53,354**	**52,098**	**67,078**	**64,184**

TABLE 36. Pig Iron, Steel Ingots and Castings and Semi-Finished Rolled Forms Shipped for Export by Producers, 1954 and 1955

	1954	1955
	Net tons	
Pig iron	203,268	254,384
Steel ingots	—	113,480
Steel castings	4,732	6,478
Semi-finished rolled forms	16,292	140,293
Total	**224,292**	**514,635**

TABLE 37. Production and Factory Sales of Steel Rails, 1946-1955

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		$
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
1955	228,991	241,254	22,352,384

TABLE 38. Production and Factory Sales of Finished Rail Fastenings, 1946-1955

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		$
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
1955	66,856	67,683	7,272,282	15,582	16,812	1,986,547

TABLE 39. Production and Factory Sales[1] of Wire Rods of Iron or Steel, 1946-1955

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		$
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
1950	293,866	120,429	8,542,496	1955	357,775	362,258	33,296,084

1. Includes shipments transferred to own mills of producing firms in 1954 and 1955. These tonnages not included before 1954-see Footnote 2 of introductory Text.

TABLE 40. Production and Factory Sales of Blooms, Billets and Slabs, 1946-1955

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		$
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
1955	2,864,919	227,833	16,552,854	77,806	70,813	6,561,780

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 Bars[1] of All Kinds, 1946-1955

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		$
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
1955	742, 494	621, 819	79, 841, 771

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

TABLE 42. Production of Structural Steel Shapes[1] of All Kinds, 1946-1955

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		$
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
1955	232, 138	240, 105	25, 650, 273

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, 1946-1955

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		$
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
1955	253, 640	251, 870	26, 162, 331

TABLE 44. Imports of Primary Forms of Iron and Steel, 1955

Commodity	Country of origin	Carbon	Alloy	Stainless
		Tons of 2,000 pounds		
Pig iron:				
Silvery	United States	2,435	–	–
Foundry	United States	8,575	–	–
Malleable	United States	49	–	–
	United Kingdom	1,327	–	–
Ingots	United States	948	1,419	–
Billets, blooms, slabs and sheet bars	United States	540	1,048	143.7
	United Kingdom	8	44	–
Bars and sections:				
Hot rolled, n.o.p.	United States	41,825	3,150	202.6
	United Kingdom	1,654	454	105.1
	Germany	462	–	–
	Belgium	16,849	–	–
	France	3,865	–	–
	Japan	7,071	–	–
	Sweden	28	–	–
Hot rolled:				
For agricultural implements	United States	7,482	529	–
Rounds over 4 7/8", squares over 4"	United States	1,146	47	–
	United Kingdom	389	42	3.7
Angles, channels, etc.	United States	9,245	–	67.2
	United Kingdom	850	–	5.4
	Germany	141	–	–
	Belgium	5,715	–	–
	France	1,437	–	–
	Sweden	–	–	5.0
Structurals (har sizes) for agricultural implements	United States	1,558	–	–
Sash or casement sections	United States	2,380	–	–
	United Kingdom	362	–	–
	Belgium	210	–	–
Cold finished, n.o.p.	United States	6,174	1,295	152.0
	United Kingdom	1,459	–	104.6
	Germany	2	–	–
	Belgium	563	–	–
	Sweden	17	17	–
Cold finished, for agricultural implements	United States	2,594	–	–
Tool steel	United States	129	612	–
	United Kingdom	186	916	–
	Germany	–	2	–
	Austria	–	55	–
	Sweden	–	84	–
Structurals:				
W.F. beams, 8" and over	United States	157,051	–	–
	United Kingdom	1,400	–	–
	Belgium	6,139	–	–
	France	979	–	–
W.F. beams, under 8"	United States	6,693	–	–
	Belgium	186	–	–
Sheet piling	United States	2,929	–	–
	United Kingdom	3,401	–	–
	Germany	756	–	–
	Belgium	498	–	–
	France	1,789	–	–
All other	United States	66,737	–	–
	United Kingdom	1,415	–	–
	Germany	305	–	–
	Belgium	21,534	–	–
	France	9,572	–	–
	Japan	2	–	–
	Sweden	90	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1955 – Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		Tons of 2,000 pounds		
Plates:				
78" and under in width	United States	39,444	627	1,114.2
	United Kingdom	12,286	–	229.3
	Germany	3,379	–	-
	Belgium	3,272	–	–
	France	978	–	–
	Japan	14,166	–	–
Over 78" and under 100" in width	United States	26,661	–	157.5
	United Kingdom	4,892	–	3.2
	Japan	551	–	–
100" in width and over	United States	6,732	–	147.2
	United Kingdom	684	–	–
Flanged, dished or curved	United States	1,429	–	–
Boiler, pulp-mill digesters	United States	4,995	–	–
Chequered or surface pattern	United States	12,204	–	–
	United Kingdom	135	–	–
Sheets:				
Silicon .075 or more	United States	–	15,348	–
	United Kingdom	–	115	–
Galvanized	United States	21,828	–	–
	United Kingdom	602	–	–
	Germany	1	–	–
	Japan	177	–	–
Corrugated	United States	7,244	–	–
	United Kingdom	39	–	–
	Germany	3	–	–
Hot rolled:				
18 gauge and heavier	United States	46,651	282	62.6
	United Kingdom	1,486	–	271.2
	Belgium	110	–	–
	Sweden	2	–	188.0
Lighter than 18 gauge	United States	18	18	4.3
	United Kingdom	23	–	30.3
	Sweden	–	–	.6
Cold rolled:				
18 gauge and heavier	United States	8,717	12	1,021.9
	United Kingdom	1,225	–	480.7
	Belgium	305	–	–
Lighter than 18 gauge	United States	15,993	36	1,677.5
	United Kingdom	3,408	–	305.4
	Belgium	466	–	–
	France	2	–	–
For tubes	United States	120	–	–
For motor vehicles	United States	25,243	–	–
For hollow-ware (vitreous enamel)	United States	10,721	–	–
	United Kingdom	3,472	–	–
Coated with paint, tar, asphaltum, etc.	United States	1,183	–	–
For saws	United States	–	934	–
	United Kingdom	–	40	–
Wasters and rejects	United States	17,604	–	–
Tin mill black plate	United States	135	–	–
Tin plate – Primes	United States	4,520	–	–
	United Kingdom	293	–	–
Tin plate – Electrolytic coating	United States	3,095	–	–
Tin plate – Seconds and wasters	United States	2,363	–	–
Terne plate – Long	United States	6,841	–	–
Short	United States	2,001	–	–
Strip:				
Hot rolled:				
18 gauge and heavier	United States	5,958	10	12.8
	United Kingdom	33	–	–
	Belgium	454	–	–
	France	215	–	–
Lighter than 18 gauge	United States	196	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1955 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		Tons of 2,000 pounds		
Strip — concluded:				
Cold rolled:				
18 gauge and heavier	United States	2,027	372	328.3
	United Kingdom	24	—	—
	Sweden	2	3	—
Lighter than 18 gauge	United States	3,864	178	1,234.4
	United Kingdom	170	—	—
	Germany	11	—	—
	Belgium	10	—	—
	Sweden	58	275	3.1
	Netherlands	7	—	—
Hot rolled strip for cold rolling	United States	126	—	—
For saws	United States	90	639	—
	United Kingdom	—	41	—
	Sweden	—	130	—
For tubes	United States	103	—	—
For tubular products	United States	5	—	—
For motor vehicles	United States	8,595	—	—
For hoops	United States	685	—	—
	United Kingdom	189	—	—
	Sweden	1	—	—
For shoe, corset laces, buckles, etc	United States	32	—	—
	United Kingdom	3	—	—
Coated with paint, tar, asphaltum, etc.	United States	8,444	—	—
	United Kingdom	56	—	—
	Germany	60	—	—
For butt hinges	United States	756	—	—
	United Kingdom	79	—	—
	Belgium	50	—	—
Galvanized	United States	4,979	—	—
	United Kingdom	319	—	—
	Germany	12	—	—
	Belgium	6	—	—
Silicon .075 or more	United States	—	7,486	—
Skelp:				
15 3/8" and under in width	United States	76,325	—	—
	Germany	1,494	—	—
	Belguim	1,653	—	—
Over 15 3/8" in width	United States	12,318	—	—
Pipes and tubes:				
Spiral weld pipe	United States	1,558	—	—
Cast	United States	525	—	—
	United Kingdom	20,826	—	—
	Germany	6	—	—
	France	241	—	—
For bedstead	United States	21	—	—
Repair of pressure parts of boilers:				
Hot finished	United States	2,089	236	42.7
	United Kingdom	1,600	—	—
	Germany	78	—	—
	France	17	—	—
	Italy	24	—	—
	Sweden	3	—	—
	Switzerland	43	—	—
Cold drawn	United States	439	40	2.7
	United Kingdom	455	—	—
	Sweden	6	—	23.7
Welded	United States	1,492	—	11.4
	United Kingdom	2,367	—	—
	Switzerland	189	—	—
Seamless, 12" and under in diameter:				
Cold drawn	United States	6,460	1,698	359.1
	United Kingdom	1,172	13	165.2
	Germany	13	—	—
	Sweden	230	171	33.4
Hot finished	United States	5,441	1,462	1.8
	United Kingdom	8,881	—	—
	Germany	333	—	—
	Belgium	84	—	—
Seamless, over 12" in diameter:				
Hot finished	United States	3,668	6	—
	United Kingdom	1,079	—	—
Welded, 4" and under in diameter	United States	9,964	2,536	54.6
	United Kingdom	4,789	—	4.6
	Germany	80	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1955 – Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		Tons of 2,000 pounds		
Pipes and tubes – concluded:				
Welded, 4" and under in diameter	Belgium	108	–	–
	France	1,098	–	–
	Sweden	–	–	.2
	Netherlands	45	–	–
Welded, over 4" in diameter	United States	10,342	–	33.8
	United Kingdom	652	–	–
Conduit	United States	1,339	–	–
	United Kingdom	1	–	–
Casings	United States	37,660	–	–
	United Kingdom	10,607	–	–
	Germany	4,009	–	–
	Belgium	875	–	–
	France	11,130	–	–
	Japan	23,061	–	–
	Italy	4,491	–	–
Tubing:				
Not over 1/2" diameter, welded and coated	United States	309	–	–
Wire rope	United States	548	–	2.1
	United Kingdom	1,843	–	–
	Germany	799	–	–
	Belgium	108	–	–
	Japan	84	–	–
	Norway	28	–	–
	Netherlands	485	–	–
	Denmark	2	–	–
	Sweden	3	–	–
Wire – For rope	United States	6,152	–	7.3
	United Kingdom	9,691	–	–
	Germany	230	–	–
	Belgium	50	–	–
For springs, cushions, mattresses, etc.	United States	1,946	–	–
	United Kingdom	17	–	–
For corset clasps, dress stays, etc.	United States	78	–	–
	United Kingdom	10	–	–
Coated or covered	United States	509	–	–
	United Kingdom	324	–	–
	Germany	148	–	–
	Belgium	225	–	–
	France	35	–	–
All other	United States	5,962	770	35.7
	United Kingdom	697	2	1.3
	Germany	3	–	–
	Belgium	424	–	–
	France	36	–	–
	Sweden	29	22	1.4
	Japan	123	–	–
	Netherlands	26	–	–
Wire rods, not over 3/8" in diameter	United States	1,413	–	–
	United Kingdom	1,665	–	–
	Germany	2,978	–	–
	Belgium	55	–	–
	Sweden	15	–	–
	Czechoslovakia	881	–	–
Welding wire and welding rods	United States	27	1,010	–
	United Kingdom	–	11	–
Axles – For railway vehicles	United States	115	–	–
Tires – For railway rolling stock	United States	539	–	–
	United Kingdom	1,352	–	–
Wheels – For railway rolling stock	United States	3,199	–	–
	United Kingdom	11,425	–	–
Rails – 60 lb. and under	United States	845	–	–
	Germany	202	–	–
	Belgium	402	–	–
	France	256	–	–
Over 60 lb. and including 100 lb.	United States	582	–	–
	United Kingdom	12,909	–	–
Over 100 lb.	United States	2,177	–	–
	United Kingdom	20	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1955 — Concluded

Commodity	Country of origin	Carbon	Alloy	Stainless
		Tons of 2,000 pounds		
Track material:				
Fish plates, angle bars, etc.	United States	1,903	—	—
	United Kingdom	2,108	—	—
	Germany	8	—	—
	Belgium	18	—	—
	France	10	—	—
Switch points, etc.	United States	62	—	—
Total imports	United States	816,099	41,796	6,883.5
	All other	295,841	2,441	1,959.3
Total		**1,111,940**	**44,237**	**8,842.8**

TABLE 45. Exports of Primary Iron and Steel, 1955

Commodity	Total tonnage
	Tons of 2,000 pounds
Pig iron	254,472
Ingots, blooms and billets	266,469
Bars	10,831
Rods	8,699
Plates, sheets and strips	71,365
Rails	71,569
Structural shapes	2,818
Pipe and tubing:	
Wrought iron	769
Cast iron	766
Galvanized	2,547
Other	599
Castings, iron and steel	12,959
Forgings	3,347
Total	**707,210**

TABLE 46. Principal Statistics of the Primary Iron and Steel Industry, Grouped According to Size of Establishment, 1954 and 1955

Establishments reporting a value of factory shipments	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	$	$	$	$
1954						
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**
1955						
Under $10,000	1	50	179,040	18,732	143,906	373,688
$50,000 to $99,999	1					
$100,000 to $199,999	2					
$200,000 to $499,999	10	408	1,455,714	191,940	864,320	3,111,361
$500,000 to $999,999	7	1,548	6,463,817	635,017	1,489,873	4,683,619
$1,000,000 to $4,999,999	16	2,233	8,158,715	1,666,094	14,131,250	34,201,904
$5,000,000 and over	13	28,252	120,523,368	28,670,797	195,658,917	483,947,881
Head offices	—	16	98,749	—	—	—
Totals	**50**	**32,507**	**136,879,403**	**31,182,580**	**212,288,266**	**526,318,453**

TABLE 47. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1954 and 1955

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						$	$	$
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, British Columbia	41	2	446	—	489	177, 002	1, 632, 649	1, 809, 651
Canada	**3, 526**	**940**	**24, 205**	**190**	**28, 861**	**21, 467, 572**	**87, 349, 858**	**108, 817, 430**
1955								
Nova Scotia	380	52	3, 657	—	4, 089	2, 014, 252	12, 527, 948	14, 542, 200
Quebec	518	102	3, 068	1	3, 689	2, 786, 989	11, 581, 968	14, 368, 957
Ontario	2, 668	800	19, 713	188	23, 369	17, 647, 868	85, 259, 225	102, 907, 093
Manitoba	69	14	714	—	797	363, 816	2, 666, 938	3, 030, 754
Alberta, British Columbia	68	11	484	—	563	295, 993	1, 734, 406	2, 030, 399
Canada	**3, 703**	**979**	**27, 636**	**189**	**32, 507**	**23, 108, 918**	**113, 770, 485**	**136, 879, 403**

TABLE 48. Production Workers, by Months, 1954 and 1955

Month	1954			1955		
	Male	Female	Total	Male	Female	Total
	Number					
January	26, 673	194	26, 867	23, 064	175	23, 239
February	25, 613	189	25, 802	24, 493	168	24, 661
March	25, 008	196	25, 204	25, 382	173	25, 555
April	24, 496	197	24, 693	26, 861	182	27, 043
May	24, 504	200	24, 704	27, 926	189	28, 115
June	24, 449	182	24, 631	28, 628	200	28, 828
July	23, 898	198	24, 096	28, 818	207	29, 025
August	23, 856	205	24, 061	29, 118	207	29, 325
September	23, 429	197	23, 626	29, 198	200	29, 398
October	22, 832	188	23, 020	29, 464	195	29, 659
November	22, 906	168	23, 074	29, 463	189	29, 652
December	22, 871	169	23, 040	29, 282	189	29, 471
Average	**24, 205**	**190**	**24, 395**	**27, 636**	**189**	**27, 825**

TABLE 49. Capital and Repair Expenditures in the Primary Iron and Steel Industry, 1951 - 1955

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						
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	6, 239	27, 300	33, 539	5, 167	31, 566	36, 733	70, 272
1955[1]	6, 754	27, 727	34, 481	5, 534	40, 630	46, 164	80, 645

1. Preliminary.

Directory of Firms in the Primary Iron and Steel Industry, 1955

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 Co. Limited	Port Colborne, Ontario
Dominion Foundries & Steel, Limited	Depew St., Hamilton, Ontario
Steel Company of Canada, Limited	Hamilton, Ontario
(b) Ferro-alloys[1]:	
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
Fahralloy, Canada Limited	Barrie Road, Orillia, Ontario
Ford Motor Company of Canada, Limited	Windsor, Ontario
Indiana Steel Products Co. of Canada, Ltd., The	Kitchener, Ontario
Kennedy & Sons, Limited, The Wm.	Second Avenue West, Owen Sound, 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 Foundries and Steel, Limited	Selkirk, Manitoba
Foothills Steel Foundry & Iron Works	1439-17th Ave. East, Calgary, Alberta
Premier Steel Mills Ltd.	Edmonton, 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

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Directory of Firms in the Primary Iron and Steel Industry, 1955 – 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
Premier Steel Mills Ltd.	Edmonton, Alberta
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.