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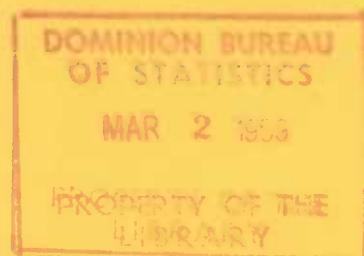
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ANNUAL



THE PRIMARY IRON AND STEEL INDUSTRY
1957



DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division



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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
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
 - Section C. Quebec
 - Section D. Ontario
 - Section E. Prairie Provinces
 - Section F. British Columbia
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution
- III — Foods and Beverages
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- 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
- B — The Agricultural Implements Industry
- C — The Boilers and Plate Work Industry
- D — The Bridge Building and Structural Steel Industry
- E — The Hardware, Tools and Cutlery Industry
- F — The Heating and Cooking Apparatus Industry
- G — The Machinery Industry
- H — The Machine Shops Industry
- I — The Iron Castings Industry
- J — The Primary Iron and Steel Industry
- K — The Sheet Metal Products Industry
- L — The Wire and Wire Goods Industry
- M — The Miscellaneous Iron and Steel Products Industry

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

THE PRIMARY IRON AND STEEL INDUSTRY

1957

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 steel products, (e) cold-drawn steel bars, strips and shapes. Fifty-one firms were included in this industry in 1957 and reports received covered 64 different plants or departments, including 5 blast furnace departments, 4 ferro-alloy plants, 39 steel furnace divisions and 16 rolling or drawing mills.

Factory sales of pig iron, ferro-alloys, steel ingots and castings and finished rolled products were 3.5 per cent higher in value in 1957 than in 1956, the totals being \$704,565,791 and \$680,860,470 respectively. Eighteen plants in Ontario (comprising 26 separate plants or departments) accounted for 77.4 per cent of the total for Canada, or \$545,501,133; 16 plants in Quebec (comprising 17 separate plants or departments) accounted for 11.7 per cent, or \$82,580,076; 3 plants in Nova Scotia (comprising 5 separate plants or departments) for 7.8 per cent, or \$55,145,123, while the remaining \$21,339,459 or 3.1 per cent was accounted for by 14 plants in Manitoba, Alberta and British Columbia (comprising 16 separate plants or departments).

In 1957 a total of 35,944 people were employed in this industry, a slight decline from the 1956 total of 36,043. Seventy per cent of the employees, or 25,132, worked in plants in Ontario, 4,579 in Nova Scotia, 4,621 in Quebec and 1,612 in Manitoba, Alberta and British Columbia. Payments in salaries and wages during 1957 amounted to \$170,779,346, an increase of 4.8 per cent over the previous year's total of \$162,880,867. Most of the increase was accounted for by salaries which rose to \$31,355,782 from \$26,703,039. Wages advanced to \$139,423,564 from \$136,177,828.

Materials used in manufacturing processes cost \$329,582,384 in 1957 compared with \$301,298,582 in 1956, and the cost of fuel and electricity was \$36,755,262 against \$38,311,951, a 7.9 per cent increase in the expenditures for materials, fuel and power.

PIG IRON

Output of 3,718,350 net tons of pig iron in 1957 was 4.2 per cent higher than the 3,568,203 tons reported for the previous year. Production of basic iron amounted to 3,209,411 tons or 86.3 per cent of the total; foundry iron amounted to 104,830 tons and malleable iron to 404,109 tons—see footnote 2 to Table 4.

Producers' sales of pig iron totalled 734,353 tons at \$40,953,372 compared with 649,213 tons at \$34,501,520 in 1956.

Charges to iron blast furnaces during the year included 4,646,179 tons of crude iron ore, 2,082,952 tons of beneficiated iron ore (sintered, pelletized, etc.), 3,158,891 tons of coke and 1,104,565 tons of limestone.

Imports of pig iron during the calendar year declined to 7,041 tons from the 12,637 tons in 1956. Exports increased to 577,600 tons from 257,627 tons reported in the previous year—see footnote to Table 11.

Producers' stock of pig iron at the end of 1957 totalled 233,569 tons compared with 113,629 tons at the end of the previous year.

Producers of pig iron in Canada had 15 blast furnaces at the end of 1957 which could produce 4.15 million net tons if operated at rated capacity. Actual production at 3,718,350 net tons in 1957 showed an operating rate of about 89.6 per cent. Eleven furnaces were in blast at the year-end.

FERRO-ALLOYS

Ferro-alloys were made in 1957 by 10 establishments, 5 of which recovered ferrosilicon as a by-products in the manufacture of abrasives. Output of ferro-alloys in 1957 amounted to 204,483 tons, decline of 15 per cent from the 240,480 tons reported in 1956.

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

STEEL INGOTS AND CASTINGS

Steel production declined by about 4.4 per cent to 5,068,149 tons in 1957 from 5,301,202 in 1956, the output of steel ingots dropping to 4,931,410 tons from 5,180,421 tons; however, castings production advanced to 136,739 tons from 120,781 tons. Factory sales of ingots and castings totalled 187,806 tons at \$65,553,873.

Thirty-nine steel plants were in operation during the year. At the end of 1957 these plants had 124 furnaces, including 34 basic open-hearth furnaces with an annual rated capacity of 4,546,000 tons, 86 electric furnaces rated at 1,061,800 tons

and 1 converter at 300 tons. Also included in the total were 3 oxygen vessels or converters of the Linz-Donawitz type with a combined capacity of 710,000 tons.

Operating steel furnaces in 1957 used 2,875,324 net tons of pig iron, 2,625,963 tons of scrap iron or steel, 190,039 tons of dolomite, 147,342 tons of lime, 138,516 tons of silica sand, 8,817 tons of magnesite, 68,007 tons of ferro-alloys, 421,755 tons of iron ore and 199,681 tons of limestone.

ROLLED AND DRAWN STEEL

In 1957 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 slightly to \$547,905,652 from \$545,509,529 in 1956. The main items sold during the year under review were 718,864 tons of hot-rolled bars at \$107,391,265; 344,616 tons of plates at \$45,017,409; 480,542 tons of rails and rail fastenings at \$52,628,952; 287,469 tons of semi-finished forms such as blooms, billets, etc., at \$28,261,857; 341,975 tons of structural shapes at \$42,823,449; 292,563 tons of wire rods at \$34,408,714 (see footnote 2); 40,038 tons of cold-reduced bars at \$13,644,710; 38,295 tons of cold-rolled strip at \$11,180,823; 384,647 tons of skelp (hot and cold-rolled) at \$43,123,961; and other rolled products, including hot and cold-rolled sheets and strip, tin plate, galvanized sheets, etc., totalling 1,023,045 tons at \$161,512,594.

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 first three footnotes below. A further change affecting 1957 data is covered in footnote 4.

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, 1955 and 1956 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. In 1957 the concept was further expanded and the integrated and semi-integrated mills filed only a single report covering all operations (excluding coke ovens). On this account, the number of establishments since 1954 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 subsequent years 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 1954-1957 in Tables 2, 30 and 38 is higher by the value applied to these shipments. In 1954 the value of those shipments is estimated to be about \$16,000,000 in 1955 about \$21,000,000, in 1956 about \$27,000,000 and in 1957 about \$26,000,000.

³ Figures for value added by manufacture, shown in Table 2, prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity from the gross selling value of products. Since 1954 information not previously available on the value of year-end inventory holdings at plant and plant warehouses has been taken into account in calculating the value added figure. In 1954 and 1955 the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse—see also footnote 4 below.

⁴ Totals shown in the "Materials used" sections of this industry for 1957 reflect the inclusion of several items of equipment for the first time, namely ingot moulds and stools valued at \$8,485,537 in the Steel Ingots and Castings Division—see Table 19 and rolls and dies valued at \$4,392,513 in the Rolled Steel Products Division—see Table 31. The inclusion of these affects, of course, the comparability of the "Materials used" totals reported in 1957 with those shown for previous years. The result of this contribution totalling \$12,878,050 to the "Materials used" component in the calculation for "Value added" forces, as well, a corresponding decrease in the total developed for the latter in 1957—see Table 2.

TABLE 1. Provincial Distribution of Active Plants in the Primary Iron and Steel Industry, 1957

Province	Number of estab- lish- ments	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	16	-	-	13	27	2	2
Ontario	18	4	12	11	68	9	2
Manitoba	2	-	-	2	6	1	-
Alberta	3	-	-	3	4	1	-
British Columbia	9	-	-	8	11	1	-
Canada	51²	5	15	39	124	16	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 1957, however, two of these operated plants in both Ontario and Quebec.TABLE 2. Principal Statistics of the Primary Iron and Steel Industry, Significant Years, 1929-1957
and by Provinces, 1956 and 1957

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products at works
number							
						dollars	
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
1953	62	34,956	129,709,556	29,572,323	212,374,287	216,957,645	458,904,255
1954	51 ²	28,861	108,817,430	23,730,461	145,110,350	217,487,185	383,154,196 ³
1955	50 ²	32,507	136,879,403	31,182,580	212,288,266	281,030,420	526,318,453 ³
1956							
Nova Scotia	3	4,366	16,706,991	3,270,900	25,989,767	23,646,154	51,321,212
Quebec	15	4,273	16,938,168	3,979,343	25,111,454	43,405,627	71,614,798
Ontario	18	25,654	122,151,730	29,673,417	239,452,056	271,173,067	531,684,074
Manitoba	2						
Alberta	3	1,750	7,083,978	1,388,291	10,745,305	14,298,148	26,240,386
British Columbia	9						
Canada	50²	36,043	162,880,867	38,311,951	301,298,582	352,522,996	680,860,470³
1957							
Nova Scotia	3	4,579	18,702,599	3,341,632	33,496,173	19,518,291	55,145,123
Quebec	16	4,621	19,432,890	4,264,623	32,097,677	47,033,842	82,580,076
Ontario	18	25,132	126,054,242	27,918,511	253,767,955	267,099,118	545,501,133
Manitoba	2						
Alberta	3	1,612	6,589,615	1,230,496	10,220,579	10,914,703	21,339,459
British Columbia	9						
Canada	51²	35,944	170,779,346	36,755,262	329,582,384⁴	344,565,954⁴	704,565,791³

¹ See footnote 3 of introductory text.² See footnote 1 of introductory text.³ See footnote 2 of introductory text.⁴ See footnote 4 of introductory text.

TABLE 3. Inventories,¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Nova Scotia	8,120,345	1,509,821	1,820,436	11,450,602
Quebec	6,862,140	2,037,031	1,644,104	10,543,275
Ontario	60,704,920	27,979,448	22,437,796	111,122,164
Manitoba, Alberta and British Columbia	5,569,345	803,077	315,004	6,687,426
Canada	81,256,750	32,329,377	26,217,340	139,803,467
Closing:				
Nova Scotia	12,154,105	3,384,657	1,156,573	16,695,335
Quebec	6,285,646	917,819	3,579,382	10,782,847
Ontario	53,742,232	25,091,654	28,610,041	107,443,927
Manitoba, Alberta and British Columbia	6,744,287	998,228	1,146,172	8,888,687
Canada	78,926,270	30,392,358	34,492,168	143,810,796

¹ Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(a) PIG IRON

TABLE 4. Production¹ of Pig Iron and Sales by Producers, 1956 and 1957

Grade	Delivered in molten condition	Machine- cast	Total tonnage made	Sales				
				Quantity	Income from sales			
net tons								
1956								
Basic	2,747,571	242,651	2,990,222	88,122	4,542,632			
Foundry ²	—	150,354	150,354	143,178	7,639,844			
Malleable	219	427,408	427,627	417,913	22,319,044			
Total	2,747,790	820,413	3,568,203	649,213	34,501,520			
1957								
Basic	2,739,194	470,217	3,209,411	298,799	16,208,433			
Foundry ²	—	104,830	104,830	94,545	5,348,333			
Malleable	687	403,422	404,109	341,009	19,396,606			
Total	2,739,881	978,469	3,718,350	734,353	40,933,372			

¹ Does not include the "remelt iron" product produced in the smelting of titanium ores.

² Includes silvery pig.

PRODUCTION OF IRON AND STEEL IN CANADA, 1947-1957

(THOUSAND NET TONS)

STEEL INGOTS AND CASTINGS



PIG IRON

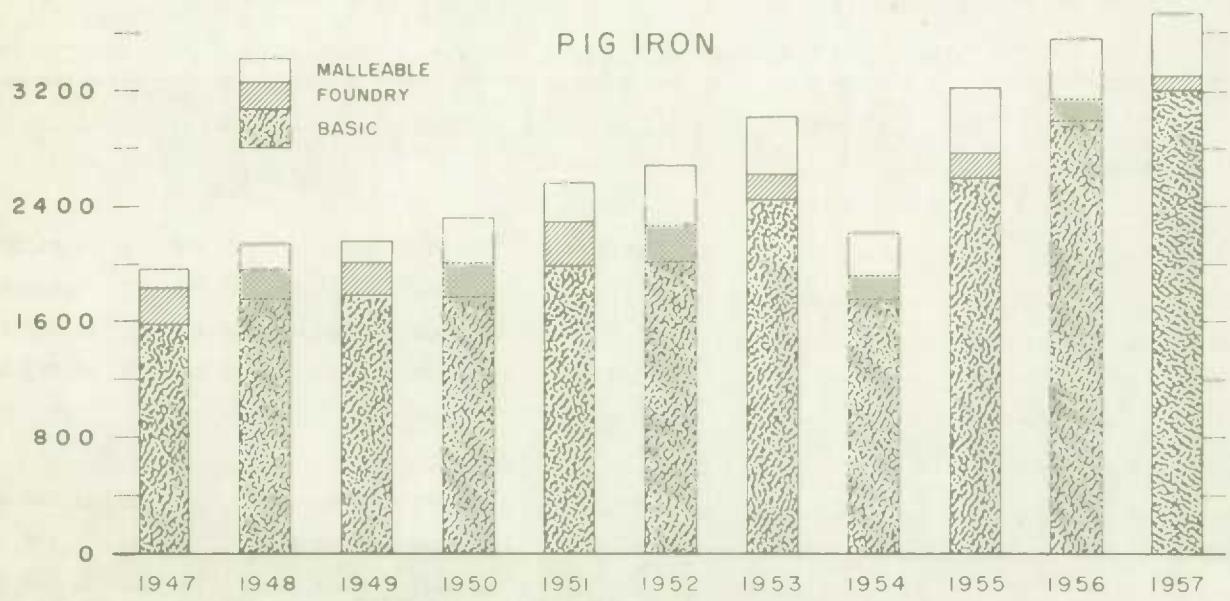


TABLE 5. Materials Charged to Iron Blast Furnaces, 1956 and 1957

Material	1956		1957	
	Quantity	Cost at furnace	Quantity	Cost at furnace
	net tons	\$	net tons	\$
Crude iron ore used in making pig iron—				
(a) From Canadian mines	1,055,757	9,421,231	1,217,650	11,449,668
(b) From foreign mines	3,611,749	32,545,279	3,428,529	32,788,501
Pyrite cinder	—	—	—	—
Iron ore (sintered, pelletized, etc.) —				
(a) From Canadian mines	730,981	7,442,968	615,444	6,296,062
(b) From foreign mines	19,330	226,093	22,103	267,420
(c) From own processing (not to include mine sinter plant)	1,104,741	10,817,239	1,445,405	15,281,761
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	272,134	870,752	200,552	792,763
Scrap	173,914	3,210,797	179,629	3,432,678
Limestone—(a) From Canadian quarries	560,746	1,503,649	624,696	1,545,073
(b) From foreign sources	530,397	793,193	479,869	760,430
Dolomite—(a) From Canadian quarries	294,117	467,038	297,515	483,585
(b) From foreign sources	8,991	16,738	—	—
Coke (including own make-blast furnace charge only)	3,051,914	42,393,488	3,158,891	48,419,334
Firebrick, fireclay and other refractories	—	190,066	—	601,968
Other materials and process supplies	—	417,481	—	2,698,726
Less credit for flue dust produced	310,894	858,686	314,148	1,011,575
Total cost of materials and process supplies		109,457,326		123,806,394

TABLE 6. Production¹ of Pig Iron, by Grades, 1948-1957

Year	Basic	Foundry	Malleable	Total	net tons
					net tons
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	
1956	2,990,222	150,354	427,627	3,568,203	
1957	3,209,411	104,830	404,109	3,718,350	

¹ See footnote 1 to Table 16 and footnote 2 to Table 4.

TABLE 7. Production¹ of Pig Iron, by Provinces, 1948-1957

Year	Nova Scotia	Ontario	Total
			net tons
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
1956	466,306	3,101,897	3,568,203
1957	521,954	3,196,396	3,718,350

¹ See footnote 1 to Table 16 and footnote 2 to Table 4.TABLE 8. Production¹ of Pig Iron, by Months, 1956 and 1957

Month	1956			1957		
	For own use	For sale	Total	For own use	For sale	Total
net tons						
January	256,267	28,817	285,084	266,734	38,162	304,896
February	237,929	30,528	268,457	258,395	33,346	291,741
March	254,543	38,099	292,642	296,325	38,385	334,710
April	237,745	49,338	287,083	277,618	47,343	324,961
May	215,796	75,504	291,300	271,218	65,466	336,684
June	232,830	70,288	303,118	238,733	90,694	329,427
July	240,091	67,551	307,642	239,855	89,343	329,198
August	262,010	54,716	316,726	269,924	68,328	338,252
September	236,566	59,258	295,824	277,117	43,915	321,032
October	250,317	57,313	307,630	183,196	110,229	293,425
November	219,251	79,649	298,900	190,152	76,263	266,415
December	275,845	38,152	313,797	214,730	32,879	247,609
Total	2,918,990	649,213	3,568,203	2,983,997	734,353	3,718,350

¹ See footnote 2 to Table 4.

Note: Above breakdown developed from a special monthly report on primary iron and steel including revisions necessary to affect reconciliation with annual totals shown in table 4.

TABLE 9. Sales¹ of Pig Iron by Producers, 1948-1957

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
1948	454,341	17,165,056	1953	626,624	31,510,562
1949	391,423	18,400,258	1954	455,552	22,142,040
1950	636,558	27,484,529	1955	609,978	30,539,000
1951	726,357	36,891,960	1956	649,213	34,501,520
1952	752,963	37,998,156	1957	734,353	40,953,372

¹ See footnote 2 to Table 4.

IRON AND STEEL PRODUCTS

TABLE 10. Iron ore, Fuel and Flux Charged to Iron Blast Furnaces, 1948 - 1957

Year	Iron ore ¹	Mill cinder, scale, etc. ²	Iron and steel scrap	Coke	Limestone	Dolomite
net tons						
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
1956	6,522,558	272,134	173,914	3,051,914	1,091,143	303,108
1957	6,729,131	200,552	179,629	3,158,891	1,104,565	297,515

¹ Since 1956 includes some ore in processed form previously reported under heading of "Mill cinder, scale, etc."² Since 1956 includes these products in not sintered form only.TABLE 11. Imports into Canada and Exports¹ of Pig Iron, 1948 - 1957

Year	Imports		Exports	
	Net tons	Value	Net tons	Value
		\$		\$
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
1956	12,637	803,979	257,627	14,117,044
1957	7,041	516,960	577,600	33,078,351

¹ As a result of an amendment in the statistical classification for pig iron introduced by the External Trade Section in the latter part of 1957 the total for exports of pig iron for 1957 shown in the above table reflects the inclusion of the "remelt iron" or "ingot iron" product produced as a by-product in the smelting of titanium ores. For this reason the total shown for 1957 is not exactly comparable with previous years.

TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1948 - 1957

Year	Net tons	Year	Net tons
1948	31,391	1953	135,781
1949	71,231	1954	127,894
1950	85,372	1955	136,415
1951	81,220	1956	113,629
1952	58,959	1957	233,569

TABLE 13. Consumption of Pig Iron in Canada by Industries and by Provinces, 1954 - 1957
(As reported by consumers)

	1954	1955	1956	1957 ¹
net tons				
(a) By Industries				
Steel ingots and castings	1,767,307	2,554,433	2,902,367	2,875,324
Iron castings	160,876	216,433	246,079	
Boilers and platework	19,587	21,999	20,353	16,322
Agricultural implements	7,841	9,650	11,213	8,489
Machinery	18,924	19,016	24,636	
Motor vehicles	2,772	5,000	6,131	9,850
Motor vehicle parts	20,457	25,197	32,306	31,149
Railway rolling stock	4,979	3,363	1,470	2,077
Brass and copper products	4,353	3,793	3,838	3,319
Shipbuilding	541	483	569	306
Hardware and tools	1,695	1,697	1,522	
Miscellaneous iron and steel	11,853	15,534	12,270	
Heating and cooking apparatus	9,045	8,578	7,540	
Electrical apparatus and supplies	3,612	3,911	4,994	3,382
Bridge and structural steel	711	1,173	1,373	1,164
Miscellaneous	—	9,000	10,295	
Total	2,034,253	2,899,260	3,286,956	
(b) by Provinces				
Prince Edward Island and Newfoundland	10	28	25	
Nova Scotia	318,174	405,704	472,684	
New Brunswick	3,144	3,165	3,236	
Quebec	65,995	73,962	84,801	
Ontario	1,610,588	2,407,036	2,718,291	
Manitoba	5,231	5,769	5,648	
Saskatchewan	—	—	59	
Alberta	536	550	854	
British Columbia	575	3,046	1,358	
Canada	2,034,253	2,899,260	3,286,956	

¹ Data for 1957 are not yet complete.

TABLE 14. Blast Furnaces in Canada, 1955 - 1957

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast			
				1955	1956	1957	
Dominion Foundries & Steel Ltd.	Hamilton, Ont.	1	320,000	365	366	365	
		1	320,000	—	39	365	
Total		2	640,000	—	—	—	
Dominion Iron & Steel Limited	Sydney, Nova Scotia ..	1	237,000	344	366	365	
		1	265,000	365	366	365	
		1	182,000	—	—	236	
Total		3	684,000	—	—	—	
Canadian Furnace Company, Limited	Port Colborne, Ont.	1	200,000	329	341	359	
Total		1	200,000	—	—	—	
The Steel Company of Canada, Limited ..	Hamilton, Ont.	1	123,000	364	366	364	
		1	271,000	364	362	364	
		1	377,000	362	365	365	
		1	470,000	362	364	274	
Total		4	1,241,000	—	—	—	
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	109,000	303	360	237	
		1	218,000	—	200	359	
		1	177,000	365	355	236	
		1	440,000	319	363	364	
		1	440,000	315	363	338	
Total		5	1,384,000¹	—	—	—	
Total for Canada		15	4,149,000	—	—	—	

¹ Potential annual capacity due to limitations imposed by auxiliary facilities = 1,280,000 net tons.

IRON AND STEEL PRODUCTS

TABLE 15. World Production of Pig Iron and Ferro-alloys, by Countries

Source: "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.

Country	1953	1954	1955	1956	1957
thousands of net tons					
United States	77,250	59,806	79,264	77,575	79,339
Canada	3,206	2,318	3,334	3,815	3,948
Mexico	287	250	361	431	442
Brazil	979	1,170	1,185	1,262	1,288
Chile	316	336	282	405	414
Austria	1,467	1,494	1,664	1,916	2,162
Belgium	4,648	5,092	5,941	6,347	6,119
Luxemburg	3,002	3,086	3,401	3,651	3,711
France	9,553	9,851	12,216	12,835	13,166
Saar	2,626	2,754	3,176	3,342	3,485
Italy	1,350	1,483	1,912	2,200	2,415
Netherlands	654	673	739	729	756
Norway	297	256	368	492	604
Sweden	1,109	1,042	1,317	1,464	1,553
Finland	88	82	127	113	142
United Kingdom	12,510	13,306	13,966	14,750	15,998
Spain	934	1,019	1,089	1,019	995
Hungary	840	896	966	820	810
Germany — Western	12,846	13,869	18,108	19,504	20,261
Eastern	1,177	1,736	1,668	1,735	1,814
Russia	30,352	33,069	36,376	39,683	40,119
Czechoslovakia	3,192	3,248	3,307	3,618	3,877
Poland	2,531	2,867	3,439	3,864	4,069
Rumania	504	560	635	638	660
Yugoslavia	309	405	585	711	806
Union of South Africa	1,353	1,319	1,434	1,495	1,556
Australia	2,057	2,082	2,011	2,323	2,469
Turkey	321	216	221	239	245
India	1,990	2,174	2,123	2,194	2,115
Japan	5,129	5,237	5,982	6,904	7,810
Other countries	334	2,825	4,354	5,888	6,887
Total	183,121	174,523	211,548	221,963	230,037

(b) FERRO-ALLOYS

TABLE 16. Production¹ of Ferro-alloys,² 1948 - 1957

Year	Net tons	Year	Net tons
1948	232,734	1953	153,660
1949	202,092	1954	116,141
1950	180,499	1955	189,805
1951	266,252	1956	240,480
1952	232,117	1957	204,483

¹ Factory shipments since 1953.² 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.

TABLE 17. Producers of Ferro-alloys, 1957

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, ferochrome-silicon
Electro Metallurgical Company, Division of Union Carbide Canada Ltd.	(a) Beauharnois, Quebec .. (b) Welland, Ontario	Ferrosilicon Ferrosilicon, ferrochrome, ferromanganese, silico-manganese
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	Niagara Falls, 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 18. Production of Steel Ingots and Steel Castings, and Sales by the Producers, 1956 and 1957

	1956			1957		
	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	4,628,777	19,621	1,346,107	4,500,737	4,545	317,987
Electric	551,644	28,319	2,090,464	430,673	51,094	5,907,786
Total steel ingots	5,180,421	47,940	3,436,571	4,931,410	55,639	6,225,773
Steel castings:						
Basic open-hearth	32,107	28,949	11,234,022	27,076	24,859	11,693,980
Converter	307	272	159,000	20	20	9,000
Electric	88,367	87,127	40,496,539	109,643	107,288	47,625,120
Total steel castings	120,781	116,348	51,889,561	136,739	132,167	59,328,100
Total steel ingots and castings	5,301,202	164,288	55,326,132	5,068,149	187,806	65,553,873
Any other products	—	—	783,247	—	—	1,156,703
Total all products	—	—	56,109,379	—	—	66,710,576
Alloy steel included in above:						
Ingots	218,611	344	44,661	213,101	1,845	192,847
Castings	27,774	26,270	16,334,427	29,110	27,982	18,185,097
Total	246,385	26,614	16,379,088	242,211	29,827	18,377,944

¹ Includes production from oxygen vessels.

TABLE 19. Materials Used in Steel Furnaces, 1956 and 1957

Material	1956		1957	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
Pig iron:			net tons	\$
Own make	2,892,126	—	2,865,366	—
Purchased	10,241	593,235	9,958	623,012
Scrap iron or steel:				
Own make	1,359,339	—	1,307,068	—
Purchased	1,506,224	67,055,699	1,318,895	56,957,282
Spiegeleisen	1,178	99,151	46	3,868
Ferromanganese — High carbon (over 3 per cent carbon)	33,758	7,206,033	34,870	8,819,383
Medium carbon	550	243,164	2,684	1,095,207
Low carbon (maximum 0.75 per cent carbon)	3,112	1,273,590	352	223,106
Silico manganese	7,958	1,861,385	8,268	2,155,878
Ferrosilicon — Low silicon grade (under 45 per cent silicon)	397	36,269	354	35,094
Medium silicon grade	9,846	1,243,983	11,408	1,534,274
High silicon grade (over 55 per cent silicon)	1,050	241,527	1,274	297,756
Sil-x	86	17,774	52	12,417
Ferrochrome (including chrom-X) — High carbon	2,594	845,614	2,600	845,864
Low carbon (maximum 2 per cent carbon)	4,497	2,393,462	4,400	2,426,890
Ferromolybdenum	169	347,813	155	350,109
Ferrophosphorus	231	24,317	117	12,463
Ferroselenium	5	92,204	3	47,346
Ferrotitanium	277	84,393	252	82,258
Ferrotungsten	37	160,436	34	100,357
Ferrovanadium	97	354,357	98	364,424
Ferozirconium	56	24,577	48	24,693
Calcium silicon	307	160,014	254	142,312
Calcium manganese silicon	175	91,325	164	88,116
Other ferro-alloys	1,225	473,486	992	414,014
Iron ore, crude	364,401	6,263,634	295,610	5,684,902
Iron ore, calcined, roasted or treated	108,075	1,715,587	126,145	2,021,925
Manganese ore	—	—	29	12,330
Chrome ore	1,366	91,803	823	55,949
Tungsten ore	56	147,244	49	97,686
Aluminum ingots, shot, etc.	1,587	904,250	1,226	630,661
Copper ingots, cakes, shot, etc.	548	446,426	631	382,503
Nickel ingots, cathodes, shot, etc.	2,886	3,678,582	2,471	3,447,964
Other metals	55	192,826	61	225,840
Coal (charged to steel furnaces; not for fuel)	668	24,314	835	24,433
Coke (charged to steel furnaces; not for fuel)	5,279	74,786	2,966	45,762
Charcoal	76	6,627	39	3,287
Bentonite	6,701	229,081	6,593	233,686
Dolomite — Raw, crushed	106,649	283,752	90,637	281,600
Calcined	95,703	2,407,384	99,402	2,560,630
Fluorspar	18,979	649,817	16,935	534,540
Ganister	3,204	18,792	4,580	25,187
Graphite	1,108	111,614	1,258	137,457
Lime	147,911	2,045,354	147,342	2,091,477
Limestone	232,065	577,909	199,681	528,216
Linseed oil	35,680	41,347	44,492	51,964
Magnesite	10,784	676,943	8,817	587,622
Electrodes	—	2,073,147	—	2,037,410
Silica sand — For moulds	138,480	1,005,764	138,267	1,060,934
For sand blasting	283	21,167	249	22,339
Other foundry sands	5,886	131,356	3,288	95,081
Sulphur	86	8,554	83	15,097
Firebrick, fireclay and other refractories	—	8,621,126	—	10,522,717
Calcium molybdate	11	15,067	48	69,642
Molybdenum trioxide (molybdic oxide) briquettes	501	678,915	312	479,933
Ingot moulds (including hot tops) and stools	—	1	—	8,485,537
All other materials	—	6,582,265	—	11,550,792
Total value of purchased materials	—	124,649,241	—	130,661,208

¹ Not available separately — see footnote 4 of introductory text.

TABLE 20. Production of Steel Ingots and Steel Castings, by Grades, 1948-1957

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open-hearth	Electric	Open-hearth	Converter	Electric	
net tons						
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
1956.....	4,628,777 ¹	551,644	32,107	307	88,367	5,301,202
1957.....	4,500,737 ¹	430,673	27,076	20	109,643	5,068,149

¹ Includes production from oxygen vessels.

TABLE 21. Production of Steel Ingots and Steel Castings, by Months, 1953-1957

Month	1953	1954	1955	1956	1957	net tons
January.....	346,648	298,900	316,814	433,700	470,005	
February.....	326,063	266,911	321,237	400,638	426,668	
March.....	366,974	249,290	384,614	440,725	477,646	
April.....	362,291	255,796	360,754	434,066	452,565	
May.....	368,967	260,351	378,877	462,131	439,093	
June.....	352,463	271,993	389,268	445,588	430,513	
July.....	323,385	260,454	360,765	441,563	430,348	
August.....	338,703	241,504	386,730	452,274	437,389	
September.....	329,344	247,358	374,472	434,373	405,560	
October.....	362,498	279,320	417,266	466,175	383,335	
November.....	332,703	287,173	415,477	444,434	361,139	
December.....	306,029	275,980	428,398	445,535	353,888	
Total.....	4,116,068	3,195,030	4,534,672	5,301,202	5,068,149	

Note: Above breakdown developed from a special monthly report on primary iron and steel including revisions necessary to affect reconciliation with annual totals shown in Table 18.

TABLE 22. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1948-1957

Year	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
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
1956.....	706,264	131,266	4,267,179	113,056	31,945	51,492	5,301,202
1957.....	740,364	157,251	4,004,620	76,243	43,827	45,844	5,068,149

TABLE 23. Sales of Steel Ingots and Steel Castings by Producers, 1948-1957

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	\$		net tons	\$
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
1951	295,279	52,227,452	1956	164,288	55,326,132
1952	265,723	57,178,291	1957	187,806	65,553,873

TABLE 24. Production of Alloy Steel Ingots and Castings, 1948-1957

Year	Ingots	Castings	Total
			net tons
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
1956	218,611	27,774	246,385
1957	213,101	29,110	242,211

TABLE 25. Metal, Ore and Flux Charged to Steel Furnaces, 1948-1957

Year	Pig iron	Ferro-manganese alloys ¹	Other ferro-alloys	Scrap iron and steel	Iron ore	Limestone	Dolomite	Fluorspar
	net tons							
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
1956	2,902,367	46,556	20,567	2,865,563	472,476	232,065	202,352	18,979
1957	2,875,324	46,220	21,787	2,625,963	421,755	199,681	190,039	16,935

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

TABLE 26. Steel Furnaces in Canada, December 31, 1957

	Type	Number of units	Size	Total annual capacity
net tons				
Nova Scotia:				
Dominion Iron & Steel Limited, Sydney	O.H.	1	225	166,000
	O.H.	2	195	290,000
	O.H.	3	190	441,000
	Elec.	1	11	33,000
Total	—	7	—	930,000
Maritime Steel Foundries Ltd., New Glasgow	Elec.	1	4	4,500
Quebec:				
Canadian Unitcast-Steel Ltd., Montreal	Elec.	1	4	8,000
Canadian Steel Foundries (1956) 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	—	61,000
Canadian Tube and Steel Products Ltd., Montreal	Elec.	1	3	16,100
	Elec.	2	25	82,800
Total	—	3	—	98,900
Dominion Brake Shoe Co. Ltd., Joliette	Elec.	1	2½	9,000
	Elec.	1	3½	16,000
Total	—	2	—	25,000
Dominion Engineering Works Ltd., Lachine	Elec.	1	5	2,500
	Elec.	1	15	7,500
Total	—	2	—	10,000
Eastern Electro-Castings Co. Ltd., Lachine	Elec.	1	5	15,000
Griffin Steel Foundries Ltd., St. Hyacinthe	Elec.	2	6	58,000
La Compagnie F.X. Drolet Ltd., Quebec	Conv.	1	1	300
Lynn MacLeod Metallurgy Ltd., Thetford Mines	Elec.	1	2	6,000
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	29,000
	Elec.	1	12	12,000
	Elec.	1	4	4,000
Total	—	3	—	45,000
Sorel Steel Foundries Ltd., Sorel	Elec.	1	1½	5,000
Ontario:				
Algoma Steel Corp. Ltd., Sault St. Marie	O.H.	4	90	275,000
	O.H.	4	150	525,000
	O.H.	2	300	400,000
Total	—	10	—	1,200,000
Atlas Steels Limited, Welland	Elec.	1	6	7,200
	Elec.	1	10	12,000
	Elec.	2	25	64,000
	Elec.	2	45	86,400
	Elec. (Induct)	1	—	800
Total	—	7	—	170,400
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	Elec.	2	10	36,000
	Elec.	2	50	140,000
	Elec.	1	2½	9,000
	Oxygen vessels	3	60	710,000
Total	—	8	—	895,000

TABLE 26. Steel Furnaces in Canada, December 31, 1957 — 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
	Elec.	1	—	300
Total	—	4	—	7,200
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.	1	¼	800
William Kennedy and Sons Ltd., Owen Sound	Elec.	1	1¾	2,400
Total	—	2	—	10,400
Steel Co. of Canada, Hamilton	O.H.	4	112	417,000
	O.H.	5	188	823,000
	O.H.	4	315	1,110,000
Total	—	13	—	2,350,000
Welland Electric Steel Foundry Ltd., Welland	Elec.	1	2	}
	Elec.	1	1	
	Elec.	1	¼	
Total	—	3	—	2,500
Manitoba:				
Manitoba Rolling Milling Co. Ltd., Selkirk	O.H.	2	20	50,000
	Elec.	1	6	26,000
	Elec.	1	10	38,000
Total	—	4	—	114,000
Steel Foundry Div., Selkirk	Elec.	1	3	3,000
	Elec.	1	5	4,000
Total	—	2	—	7,000
Alberta:				
Dominion Bridge Co. Ltd., Calgary	Elec.	1	1½	4,300
Foothills Steel Foundry & Iron Works, Calgary	Elec.	1	1	3,000
Premier Steel Mills Ltd., Edmonton	Elec.	2	12	70,000
British Columbia:				
A-1 Steel & Iron Foundry, Vancouver	Elec.	1	1½	2,000
	Elec.	1	½	2,000
Total	—	2	—	4,000
Britannia Mining & Smelting Co. of Canada, Britannia Beach ..	Elec.	1	5	4,200
Consolidated Mining & 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 Steel Co. Ltd., Vancouver	Elec.	1	15	43,400
Victoria Machinery Depot Co. Ltd., Victoria	Elec.	2	2	4,000
Canadian Summer Iron Works Ltd., Vancouver	Elec.	1	1	3,600

TABLE 27. Summary of Steel Furnace Capacity, December 31, 1957

	Number of furnaces	Total Annual capacity net tons
Basic open-hearth (including oxygen vessels)	37	5,256,000
Electric	86	1,061,800
Converter	1	300
Total	124	6,318,100
Steel ingots:		
Basic open-hearth (including oxygen vessels)	—	5,207,000
Electric	—	706,100
Total	—	5,913,100
Steel castings	—	405,000
Total ingots and castings	—	6,318,100

TABLE 28. Summary of Steel Furnace Capacity, by Provinces, December 31, 1953-1957

	Total annual capacity				
	1953	1954	1955	1956	1957
net tons					
Nova Scotia	737,000	545,000	653,000	789,500	934,500
Quebec	288,700	238,400	244,900	272,750	340,900
Ontario	3,774,875	4,219,075	4,380,800	4,502,600	4,771,700
Manitoba	115,600	118,000	121,000	121,000	121,000
Alberta	2,500	4,900	39,900	48,100	77,300
British Columbia	73,100	79,300	79,300	79,300	72,700
Canada	4,991,775	5,204,675	5,518,900	5,813,250	6,318,100

TABLE 29. World Ingot and Castings Production, by Countries

Source: "Annual Statistical Report" published by the American Iron and Steel Institute, New York, U.S.A.

Country	1953	1954	1955	1956	1957
thousands of net tons					
United States	111,610	88,312	117,036	115,216	112,715
Canada	4,104	3,158	4,500	5,266	5,006
Mexico	474	450	580	648	686
Argentina	192	205	240	224	229
Brazil	1,084	1,276	1,285	1,469	1,703
Austria	1,401	1,822	2,009	2,290	2,759
Belgium	4,846	5,462	6,504	7,033	6,997
Luxemburg	2,930	3,117	3,556	3,808	3,850
France	11,023	11,713	13,872	14,769	15,428
Saar	2,959	3,091	3,489	3,720	3,823
Italy	3,807	4,639	5,945	6,509	7,474
Netherlands	947	1,023	1,073	1,159	1,311
Sweden	1,944	2,051	2,369	2,674	2,729
United Kingdom	19,723	20,742	22,313	23,138	24,304
Spain	986	1,209	1,336	1,370	1,456
Yugoslavia	568	680	888	977	1,131
Germany-Western	16,997	19,219	23,503	25,560	27,081
Eastern	2,296	2,688	2,751	3,020	3,174
Russia	41,776	44,974	50,265	52,910	56,217
Czechoslovakia	4,738	5,096	5,000	5,381	5,612
Hungary	1,658	1,579	1,799	1,570	1,473
Poland	3,920	4,368	4,868	5,526	5,823
Rumania	795	829	847	997	880
Union of South Africa	1,365	1,523	1,553	1,770	1,903
Australia	2,295	2,488	2,458	2,916	3,437
Turkey	179	186	207	212	207
India	1,687	1,878	1,910	1,946	1,903
Japan	8,457	8,533	10,370	12,242	13,807
Other countries	3,539	3,368	4,695	6,519	7,155
Total	258,300	245,678	297,222	310,840	320,271

TABLE 30. Products Made in Steel Rolling and Drawing Mills, 1956 and 1957

Product	Total tonnage made	Factory sales				
		Tonnage sold in Canada or for export	Income from tonnage sold			
1956		net tons				
A. Hot-rolled products						
Semi-finished rolled forms:						
All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars —						
(a) For sale in Canada	3,485,112	128,988	8,633,338			
(b) For export	5,452	5,003	656,831			
Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others including export	113,328	102,978	11,282,967			
Rounds or billets for seamless tubes including export						
Total semi-finished rolled forms	3,603,892	236,969	20,573,136			
Rails	336,662	333,979	33,027,029			
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	403,834	403,602 ¹	42,565,418			
Structural steel shapes:						
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1-8" and over	237,932	237,528	27,191,869			
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	78,068	78,036	9,170,117			
Total structural steel shapes²	316,000	315,564	36,361,986			
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	515,263	487,993	74,906,798			
Bars for concrete reinforcing, including twisted and other deformed bars	312,335	307,682	37,374,858			
Long angle splice bars, tie plate bars and all other long rail joint bars	120,381	—	—			
Total hot-rolled bars³	947,979	795,675	112,281,656			
Plates	326,208	319,666	36,936,168			
Skelp (hot and cold rolled plate, sheets, strip and bars for pipes and tubes)	356,328	347,231	35,305,224			
Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms	1,408,144	359,732	45,845,797			
B. Cold-rolled and coated products⁴						
Bars, cold-rolled and cold-drawn	46,661	46,162	14,513,166			
Cold-rolled strip	64,800	61,565	13,981,363			
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, galvanized sheets and strip, ⁵ tin plate, silicon sheet and strip, but excluding cold-rolled skelp	1,301,142	827,510	132,049,790			
C. Other products						
Rail fastenings — Rail joints, including splice bars and fish plates ..	18,487	18,675	2,465,669			
Tie plates	88,590	86,592	10,103,650			
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	—	—	9,499,477			
Total value of production	—	—	545,509,529			

¹ Includes shipments transferred to own fabricating mills of producing firms. These tonnages not included prior to 1954 — see footnote 2 of introductory text.

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

³ Includes sheet piling which prior to 1956 was reported under "All other hot-rolled products"; accordingly not comparable with tonnages reported under this category in earlier years; however, data appearing in this bulletin have been revised to accommodate this change in classification — see Tables 32 and 41.

⁴ Note that skelp as listed provides for both hot-rolled and cold-rolled material.

⁵ Includes the tonnages made in rolling mills only.

TABLE 30. Products Made in Steel Rolling and Drawing Mills, 1956 and 1957 — Concluded

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
1957		net tons	\$
A. Hot-rolled products			
Semi-finished rolled forms:			
All semi-finished forms intended for further rolling, including blooms, billets, slabs and sheet bars—			
(a) For sale in Canada	6	134,768	9,911,013
(b) For export	2,859	6,294	1,242,439
Blooms, billets and axle blanks for forging purposes only, whether for own use or for sale to others including export	156,065	146,407	17,108,405
Rounds or billets for seamless tubes including export			
Total semi-finished rolled forms	—	287,469	28,261,857
Rails	393,926	383,174	39,978,592
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	291,300	292,563 ¹	34,408,714
Structural steel shapes:			
Heavy, including sheet piling, beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of 1-8" and over	265,490	260,541	32,241,778
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	82,203	81,434	10,582,671
Total structural steel shapes²	347,693	341,975	42,823,449
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	463,001	424,756	69,986,474
Bars for concrete reinforcing, including twisted and other deformed bars	300,418	294,108	37,404,791
Long angle splice bars, tie plate bars and all other long rail joint bars	102,114	—	—
Total hot-rolled bars²	865,533	718,864	107,391,265
Plates (excluding plate for pipes and tubes)	349,626	344,616	45,017,409
Skelp (hot and cold rolled plate, sheets, strip and bars for pipes and tubes)	382,342	384,647	43,123,961
Other hot-rolled sheets and strip including material for further cold reduction and all other hot-rolled forms	1,199,325	325,359	42,917,896
B. Cold-rolled and coated products⁴			
Bars, cold-rolled and cold-drawn	39,266	40,038	13,644,710
Cold-rolled strip	40,514	38,295	11,180,823
Other cold-rolled and coated products, including cold-reduced sheets, black plate for tinning and other black plate, galvanized sheets and strip, ⁵ tin plate, silicon sheet and strip, but excluding cold-rolled skelp	1,129,206	697,686	118,594,698
C. Other products			
Rail fastenings — Rail joints, including splice bars and fish plates ..	17,022	16,793	2,502,295
Tie plates	78,555	80,575	10,148,065
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	—	—	7,911,918
Total value of production	—	—	547,905,652

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.⁴ Includes sheet piling which prior to 1956 was reported under "All other hot-rolled products"; accordingly not comparable with tonnages reported under this category in earlier years; however, data appearing in this bulletin have been revised to accommodate this change in classification—see Tables 32 and 41.⁵ Note that skelp as listed provides for both hot-rolled and cold-rolled material.⁶ Not collected separately.

TABLE 31. Materials Used for All Purposes in Steel Rolling and Drawing Mills, 1956 and 1957

Materials used	Companies' own make	Purchased		
		Quantity	Total cost at mill of purchased materials used	
		net tons (2,000 pounds)	\$	
1956				
Steel ingots	5,143,039	757	242,000	
Steel blooms	—	—	—	
Steel billets	142,058	111,671	8,998,641	
Steel slabs	—	9,287	788,626	
Steel bars	—	36,594	5,429,241	
Wire rods	2,028	3,550	423,687	
Rails, old	—	71,759	4,010,116	
Axles, old	—	8,906	471,567	
Scrap iron and steel, other	14,250	11,660	513,600	
Tin	—	2,347	4,411,457	
Zinc spelter	—	17,191	4,899,780	
Acids — Chromic — Hydrochloric (muriatic) — Sulphuric, 100%	—	92	51,077	
Ammonium chloride (salammoniac)	—	772	35,935	
Cleaners (Pennsalt, etc.)	—	24,021	607,011	
Inhibitors (Rodine, etc.)	—	193	34,019	
Palm oil	—	664	118,851	
Phenone	—	47	8,866	
Rolling oils, other	—	307	72,877	
Salt	—	16	33,185	
Zinc ammonium chloride	—	2,764	816,969	
Refractories	—	1,543	18,280	
Silica sand	—	265	59,339	
All other materials and supplies	—	—	629,909	
Containers and other packaging materials	—	—	9,470	
Total	—	—	13,396,810	
			1,586,950	
1957				
Steel ingots	4,842,188	835	317,000	
Steel blooms	67	—	—	
Steel billets	110,314	130,740	11,018,295	
Steel slabs	—	13,524	1,001,786	
Steel bars	10,493	31,369	4,563,695	
Wire rods	—	3,856	456,412	
Rails, old	—	68,075	4,070,362	
Axles, old	—	10,257	536,812	
Scrap iron and steel, other	13,007	10,331	433,362	
Tin	—	3,121	5,881,943	
Zinc spelter	—	12,918	3,253,434	
Acids — Chromic — Hydrochloric (muriatic) — Sulphuric, 100%	—	59	33,590	
Ammonium chloride (salammoniac)	—	652	30,197	
Cleaners (Pennsalt, etc.)	—	18,998	495,228	
Inhibitors (Rodine, etc.)	—	62	10,999	
Palm oil	—	636	120,785	
Phenone	—	36	7,907	
Rolling oils, other	—	282	65,766	
Salt	—	16	37,369	
Zinc ammonium chloride	—	1,762	611,652	
Refractories	—	7	174	
Rolls and dies ¹	—	213	48,136	
Silica sand	—	—	628,975	
All other materials and supplies	—	343	4,392,513	
Containers and other packaging materials	—	—	3,237	
Total	—	—	15,215,960	
			1,538,893	
¹ See footnote 4 of introductory text.				

TABLE 32. Net Production¹ in Canada of Hot-rolled Steel Products, 1953-1957

Item	1953	1954	1955	1956	1957
net tons					
Blooms, billets and slabs	174,864	93,202	214,615	118,780	158,924
Rails	303,318	241,922	228,991	336,662	393,926
Bars for rail fastenings	69,286	58,315	89,755	120,381	102,114
Wire rods	286,471	275,121	357,775	403,834	291,300
Structural shapes ²	283,203	193,673	241,698	316,000	347,693
Bars	662,989	470,206	652,739	827,598	763,419
Plates (excluding plates for pipes and tubes)	221,818	201,939	253,640	326,208	349,626
Sheets, hoops, bands and strips (excluding skelp) ..	1,036,789	826,648	1,194,556	1,403,974	1,194,670
Other hot-rolled forms (including hot-rolled skelp) ..	147,215	153,745	256,593	346,207	363,032
Total	3,185,953	2,514,771	3,490,362	4,199,644	3,964,704

¹ Inter-mill shipments have been excluded.² Revised to include sheet piling which prior to 1956 was included with "Other hot-rolled forms."

TABLE 33. Alloy Steel Products Made and Sold by Rolling Mills, 1956 and 1957

	1956		1957	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
net tons				
Bars	97,318	97,305	91,734	77,149
Other products, including plates, billets, forgings, sheet piling and wire rods, etc.	187,623	48,915	159,447	39,795
Total alloy steel	284,941	146,220	251,181	116,964

TABLE 34. Products Rolled from Old Rails, Axles, Etc., 1956 and 1957

	1956		1957	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
net tons				
Rails	-	-	-	-
Bars	70,648	68,471	62,640	60,024
Other products	5,215	4,839	4,285	4,000
Total	75,863	73,310	66,925	64,024

TABLE 35. Pig Iron, Steel Ingots and Castings Shipped for Export by Producers, 1956 and 1957

	1956	1957
net tons		
Pig Iron ¹	272, 245	444, 004
Steel ingots	37, 964	11, 104
Steel castings	3, 921	39, 854

¹ See footnote to Table 11.

TABLE 36. Production and Factory Sales of Steel Rails, 1948 - 1957

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
		net tons	
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
1956	336, 662	333, 979	33, 027, 029
1957	393, 926	383, 174	39, 978, 592

TABLE 37. Production and Factory Sales of Finished Rail Fastenings, 1948 - 1957

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	
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
1956	88, 590	86, 592	10, 103, 650	18, 487	18, 675	2, 465, 669
1957	78, 555	80, 575	10, 148, 065	17, 022	16, 793	2, 502, 295

TABLE 38. Production and Factory Sales¹ of Wire Rods of Iron or Steel, 1948-1957

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		\$
1948	286, 990	107, 888	8, 287, 303
1949	290, 863	114, 114	7, 137, 187
1950	293, 866	120, 429	8, 542, 498
1951	318, 266	122, 514	9, 695, 144
1952	315, 789	128, 900	10, 554, 693
1953	286, 471	113, 095	10, 687, 946
1954	275, 121	274, 870	26, 848, 014
1955	357, 775	362, 258	33, 296, 084
1956	403, 834	403, 802	42, 565, 418
1957	291, 300	292, 583	34, 408, 714

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

TABLE 39. Production and Factory Sales of Blooms, Billets and Slabs, 1948-1957

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		\$
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, 586, 209
1950	2, 332, 336	259, 898	16, 955, 029	114, 548	103, 007	8, 349, 232
1951	2, 498, 536	308, 888	21, 088, 928	147, 004	138, 448	12, 446, 727
1952	2, 587, 942	277, 588	22, 385, 697	141, 490	122, 185	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	8, 821, 716	72, 503	59, 539	5, 927, 220
1955	2, 864, 919	227, 833	16, 552, 854	77, 806	70, 813	6, 581, 780
1956	3, 490, 584	133, 991	9, 290, 169	113, 328	102, 978	11, 282, 967
1957	³	141, 062	11, 153, 452	156, 065	148, 407	17, 108, 405

¹ Shipment to other Canadian rolling mills are included.

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

³ Not collected in 1957.

IRON AND STEEL PRODUCTS

TABLE 40. Production and Factory Sales of Hot-rolled Bars¹ of All Kinds, 1948 - 1957

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	\$	
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
1956	947,979	795,675	112,281,656
1957	865,533	718,864	107,391,265

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

TABLE 41. Production of Structural Steel Shapes¹ of All Kinds, 1948 - 1957

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	\$	
1948	192,253	191,048	14,221,829
1949	191,018	200,278	16,072,896
1950	153,144	151,710	13,377,229
1951	250,362	239,669	23,261,471
1952	231,091	223,071	23,248,170
1953	283,203	273,591	28,725,067
1954	193,673	190,521	20,056,183
1955	241,698	249,762	26,694,977
1956	316,000	315,564	36,361,986
1957	347,693	341,975	42,823,449

¹ (a) Includes light structurals since 1951 - see footnote to Table 40.

(b) In 1956 this category was revised to include sheet piling. Data in above table for previous years have been revised to accommodate this change in classification.

TABLE 42. Production and Factory Sales of Steel Plate, 1948 - 1957

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	\$	
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
1956	326,208	319,666	36,936,168
1957	349,626	344,616	45,017,409

TABLE 43. Imports of Primary Forms of Iron and Steel, 1957

Commodity	Country of origin	Carbon	Alloy	Stainless
tons (2,000 pounds)				
Pig iron:				
Basic	United States	225	—	—
Foundry	United States	1,508	—	—
Malleable	United Kingdom	123	—	—
Silvery	Australia	146	—	—
Malleable	United States	270	—	—
Silvery	United States	4,562	—	—
Ingots	United States	915	680	49.3
Billets, blooms, slabs and sheet bars	United States	1,254	706	691.2
Tube rounds and tube billets	United Kingdom	1	47	—
	Sweden	—	5	—
	United States	15,986	—	—
Bars and sections:				
Hot rolled, n.o.p.	United States	34,280	2,122	153.0
United Kingdom	6,507	476		114.3
Austria	15	—		—
Belgium	7,821	—		—
Chile	218	—		—
France	1,819	—		—
Germany	163	9		—
Japan	120	—		—
Sweden	43	5		9.6
Hot rolled:				
For agricultural implements	United States	2,283	93	—
Rounds over 4 7/8", squares over 4"	United States	4,928	82	3.7
Concrete reinforcing bars	United Kingdom	357	43	12.8
Sash or casement sections	United States	17,585	—	—
	Belgium	21,777	—	—
	Chile	816	—	—
	France	11,629	—	—
	Germany	546	—	—
	Japan	677	—	—
	United States	2,991	—	—
	United Kingdom	386	—	—
	Belgium	76	—	—
Cold finished, n.o.p.	United States	3,570	1,966	152.4
	United Kingdom	3,143	6	108.5
	Belgium	703	—	—
	Germany	41	16	—
	Sweden	6	—	1.7
Cold finished, for agricultural implements	United States	1,076	18	—
Tool steel	United States	2,420	857	—
	United Kingdom	604	507	—
	Austria	13	43	—
	Germany	—	47	—
	Sweden	92	114	—
Structurals:				
W.P. beams, 8" and over	United States	235,343	—	—
	United Kingdom	215	—	—
	Belgium	22,426	—	—
	France	330	—	—
	Germany	2,407	—	—
	Norway	234	—	—
W.P. beams, under 8"	United States	12,349	—	—
	Belgium	1,488	—	—
	Germany	28	—	—
	Norway	81	—	—
Sheet piling	United States	4,921	—	—
	United Kingdom	8,921	—	—
	Belgium	5,079	—	—
	France	761	—	—
	Germany	5,280	—	—
All other	United States	108,107	—	—
	United Kingdom	8,637	—	—
	Austria	17	—	—
	Belgium	68,013	—	—
	France	27,213	—	—
	Germany	2,501	—	—
	Italy	15	—	—
	Norway	3,481	—	—
	Sweden	25	—	—

TABLE 43. Imports of Primary Forms of Iron and Steel, 1957 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
tons (2,000 pounds)				
Structurals—Concluded:				
Bar size angles, channels, etc.	United States	11,942	—	172.5
	United Kingdom	2,380	—	3.0
	Belgium	7,775	—	—
	France	2,714	—	—
	Norway	399	—	—
	Sweden	—	—	3.4
For agricultural implements	United States	309	—	—
Plates:				
78" and under in width	United States	126,477	899	819.1
	United Kingdom	19,539	—	577.6
	Australia	4,168	—	—
	Austria	61	—	—
	Belgium	5,458	—	—
	Chile	6,905	—	—
	Czechoslovakia	163	—	—
	France	624	—	—
	Germany	5,460	—	—
	Japan	7,539	—	—
	Poland	27	—	—
	Sweden	—	—	13.1
Over 78" and under 100" in width	United States	65,731	2,808	167.2
	United Kingdom	17,872	—	25.3
	Austria	511	—	—
	Belgium	375	—	—
	Germany	2,385	—	—
	Japan	786	—	—
100" in width and over	United States	13,655	121	56.3
	United Kingdom	4,068	29	—
	Germany	1,164	—	—
	United States	3,391	6	115.6
Flanged, dished or curved	United Kingdom	93	—	—
Boiler, pulp-mill digesters	United States	3,049	11	36.2
Chequered or surface pattern	United States	14,892	—	—
	United Kingdom	704	—	—
	Chile	11	—	—
Sheets:				
Silicon .075 or more	United States	—	17,453	—
	United Kingdom	—	109	—
	France	—	78	—
Galvanized	United States	8,160	—	—
	United Kingdom	118	—	—
Corrugated	United States	2,395	—	—
	United Kingdom	95	—	—
For tubes	United States	16,288	—	—
For tubular products	United States	—	—	—
Hot rolled:				
18 gauge and heavier	United States	51,682	315	194.6
	United Kingdom	1,816	—	430.9
	Netherlands	32	—	—
	Sweden	—	—	251.5
Lighter than 18 gauge	United States	393	52	93.6
	United Kingdom	15	—	45.0
Cold rolled:				
18 gauge and heavier	United States	7,531	22	698.4
	United Kingdom	539	—	861.6
	Sweden	—	—	17.2
Lighter than 18 gauge	United States	9,101	4	1,403.1
	United Kingdom	734	—	503.1
	Sweden	—	—	7.2
For motor vehicles	United States	13,358	—	—
For hollow-ware (vitreous enamel)	United States	10,766	—	—
Coated with paint, tar, asphaltum, etc.	United Kingdom	385	—	—
	United States	1,717	—	—
	United Kingdom	35	—	—
For heating apparatus (blue polished)	United States	—	—	—
For saws	United States	32	438	—
	United Kingdom	1	17	—
	Germany	—	3	—
	Sweden	—	16	—

TABLE 43. Imports of Primary Forms of Iron and Steel, 1957 - Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
tons (2,000 pounds)				
Sheets - Concluded:				
Wasters and rejects	United States	5,078	-	-
Tin mill black plate	United States	150	-	-
Tin plate - Primes	United States	154	-	-
	United Kingdom	3,377	-	-
	United States	708	-	-
Tin plate - Electrolytic coating	United Kingdom	489	-	-
	United States	-	-	-
Tin plate wasters and seconds	United States	5,069	-	-
Terne plate - Long	United States	591	-	-
Short				
Strip:				
Hot rolled:				
18 gauge and heavier	United States	6,260	19	1.9
	United Kingdom	1,022	-	-
	Belgium	321	-	-
	Germany	55	-	-
	Netherlands	1	-	-
Lighter than 18 gauge	United States	1,664	19	7.4
	United Kingdom	69	1	-
Cold rolled:				
18 gauge and heavier	United States	1,122	306	266.5
	United Kingdom	108	-	-
	Sweden	2	16	-
Lighter than 18 gauge	United States	1,745	66	809.8
	United Kingdom	165	-	-
	Netherlands	1	-	-
	Sweden	278	14	2.1
Hot rolled strip for cold rolling	United States	-	-	-
For saws	United States	97	490	-
	United Kingdom	-	46	-
	Sweden	-	139	-
For tubes	United States	39	-	-
For tubular products	United States	11	-	-
For shoe and corset laces, buckles, ball bearings, etc.	United States	252	-	-
For motor vehicles	United Kingdom	13	-	-
For hoops	United States	3,622	-	-
	United States	675	-	-
	United Kingdom	192	-	-
	Germany	4	-	-
Coated or covered with paint, tar, asphaltum, etc.	United States	7,407	-	-
	United Kingdom	38	-	-
	Germany	100	-	-
For butts and hinges	United States	183	-	-
Hoop band or strip, galvanized	United States	2,977	-	-
	United Kingdom	110	-	-
	Belgium	11	-	-
	Japan	6	-	-
Silicon .075 or more	United States	-	6,508	-
Skelp:				
12" and under in width	United States	67,617	-	-
	United Kingdom	168	-	-
Over 12" in width	Germany	1,906	-	-
Plate for pipe	United States	31,283	-	-
	United States	153,426	-	-
Pipes and tubes:				
Spiral weld pipe	United States	3,732	-	-
For bedstead	United States	9	-	-
Cast	United Kingdom	3	-	-
	Germany	6	-	-
	United States	661	-	-
	United Kingdom	20,439	-	-
	Germany	130	-	-
Repair of pressure parts of boilers:				
Seamless, hot finished	United States	2,960	570	.6
	United Kingdom	1,316	106	-
	Germany	165	-	-
	Sweden	14	-	-
Seamless, cold drawn	United States	500	203	7.7
	United Kingdom	291	3	-
	Sweden	5	-	-
Welded	United States	985	-	32.3
	United Kingdom	2,492	-	-
	Switzerland	337	-	-

TABLE 43. Imports of Primary Forms of Iron and Steel, 1957 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
tons (2,000 pounds)				
Pipes and tubes—Concluded:				
Seamless, 12" and under in diameter:				
Cold drawn.....	United States	6,554	787	358.1
	United Kingdom	2,102	42	232.9
	Germany	28	—	—
	Sweden	174	253	54.8
Hot finished	United States	9,620	2,681	22.3
	United Kingdom	6,544	—	1.1
	Australia	856	—	—
	Germany	462	26	—
	Italy	1	—	—
Seamless, over 12" in diameter:				
Cold drawn.....	United States	—	—	—
	United States	12,698	69	2.2
	United Kingdom	1,888	—	—
	Germany	23	—	—
	Italy	6	—	—
Welded 4" and under in diameter	United States	7,891	1	64.6
	United Kingdom	7,306	—	10.1
	Austria	122	—	—
	Belgium	540	—	—
	France	612	—	—
	Germany	1,373	—	—
	Netherlands	4	—	—
Welded over 4" in diameter.....	United States	327,477	—	85.8
	United Kingdom	102,923	—	—
Conduit	United States	1,646	—	—
Casing	United States	102,748	—	—
	United Kingdom	23,736	—	—
	Australia	1,076	—	—
	Belgium	1,737	—	—
	Czechoslovakia	4,851	—	—
	France	5,877	—	—
	Germany	13,662	—	—
	Italy	6,716	—	—
	Japan	31,346	—	—
	Yugoslavia	229	—	—
Tubing:				
Not over ½" diameter, welded and coated.....	United States	319	—	—
Wire products:				
Wire rope	United States	705	—	5.4
	United Kingdom	3,027	—	.1
	Belgium	233	—	—
	Denmark	20	—	—
	Germany	1,148	—	—
	Japan	137	—	—
	Netherlands	478	—	—
	Norway	30	—	—
	Sweden	8	—	—
Wire:				
For wire rope	United States	1,543	—	2.4
	United Kingdom	14,167	—	—
	Belgium	28	—	—
	France	75	—	—
	Germany	603	—	—
	Japan	25	—	—
	Norway	30	—	—
For springs, cushions, mattresses, etc.	United States	344	—	—
	United Kingdom	50	—	—
For corset clasps, dress stays, etc.	United States	77	—	—
	United Kingdom	40	—	—
	Germany	2	—	—
Coated or covered	United States	1,242	1	2.2
	United Kingdom	1,054	—	—
	Belgium	236	—	—
	Denmark	4	—	—
	France	89	—	—
	Germany	82	—	—
	United States	34	—	—
For fencing (galvanized)	United Kingdom	474	—	—

TABLE 43. Imports of Primary Forms of Iron and Steel, 1957 — Concluded

Commodity	Country of origin	Carbon	Alloy	Stainless
tons (2,000 pounds)				
Wire products—Concluded:				
Wire—Concluded:				
All other	United States	2,694	208	73.5
	United Kingdom	2,089	5	5.7
	Belgium	210	—	—
	Denmark	1	—	—
	France	425	—	58.0
	Germany	571	—	—
	Japan	104	—	—
	Netherlands	130	—	—
	Sweden	51	—	4.9
Welding rods	United States	2,311	540	163.5
	United Kingdom	—	7	—
	Germany	2	—	—
Welding wire in coils	United States	393	42	12.7
Wire rods not over 3/8" in diameter	United States	1,748	15	.1
	United Kingdom	1,324	—	—
	Belgium	3,525	—	—
	Germany	3,562	—	—
Axle—For railway vehicles	United States	620	—	—
Tires—For railway rolling stock	United Kingdom	198	—	—
Wheels—For railway rolling stock	United States	278	—	—
	United Kingdom	1,623	—	—
	United States	544	—	—
	United Kingdom	22,859	—	—
Rails:				
60 lb. and under	United States	1,746	—	—
	Belgium	287	—	—
	France	49	—	—
	Germany	2,093	—	—
	Netherlands	30	—	—
Over 60 lb. and including 100 lb.	United States	2,598	—	—
	United Kingdom	20,417	—	—
	Germany	95	—	—
Over 100 lb.	United States	1,084	—	—
	France	1	—	—
Track material:				
Fish plates, angle bars, etc.	United States	1,904	—	—
	United Kingdom	9,332	—	—
	Belgium	14	—	—
	France	1	—	—
	Germany	273	—	—
	Netherlands	30	—	—
Switch points, etc.	United States	111	—	—
Total imports		2,252,636	43,406	10,080.7

Note: Imports reported in Table 43 for Belgium includes Luxembourg.

TABLE 44. Exports of Primary Iron and Steel, 1957

Commodity	Total tonnage
tons (2,000 pounds)	
Pig iron ¹	577,600
Ingots, blooms and billets	65,184
Bars	11,775
Rods	2,551
Plates, sheets and strips	70,954

¹ See footnote to Table 11.

TABLE 44. Exports of Primary Iron and Steel, 1957 — Concluded

Commodity	Total tonnage
	tons (2,000 pounds)
Rails	110,749
Structural shapes	9,267
Pipe and tubing:	
Wrought iron	17,077
Cast iron	1,473
Galvanized	348
Other	30,544
Castings, iron and steel	9,123
Forgings	6,215
Total	912,860

TABLE 45. Principal Statistics of the Primary Iron and Steel Industry, Grouped According to Size of Establishment, 1956 and 1957

Establishments reporting a value of factory shipments	Establishments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
1956						
Under \$10,000	1	50	177,397	19,130	193,345	475,430
\$100,000 to \$199,999	3	1}	1,078,949	90,794	941,741	2,604,316
\$200,000 to \$499,999	7	296	1,509,672	165,505	939,817	3,312,382
\$500,000 to \$999,999	5	395	12,096,254	2,430,733	24,435,245	46,010,614
\$1,000,000 to \$4,999,999	20	3,178	147,919,846	35,605,789	274,788,434	628,457,728
\$5,000,000 and over	14	32,108	98,749	—	—	—
Head Offices	—	16				
Total	50	36,043	162,880,867	38,311,951	301,298,582	680,860,470
1957						
Under \$10,000	1	32	120,433	12,405	135,268	384,363
\$100,000 to \$199,999	3	1}	1,247,645	104,839	689,850	2,286,935
\$200,000 to \$499,999	7	321	1,557,269	175,899	1,120,125	3,218,736
\$500,000 to \$999,999	5	388	13,874,600	2,752,603	25,370,980	53,876,853
\$1,000,000 to \$4,999,999	21	3,397	153,884,082	33,709,516	302,266,161	644,798,904
\$5,000,000 and over	14	31,793	95,317	—	—	—
Head offices	—	13				
Total	51	35,944	170,779,346	36,755,262	329,582,384	704,565,791

TABLE 46. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1956 and 1957

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1956								
Nova Scotia	388	45	3,933	—	4,366	2,233,449	14,473,542	16,706,991
Quebec	554	111	3,607	1	4,273	3,087,049	13,851,119	16,938,168
Ontario	2,790	912	21,752	200	25,654	20,516,335	101,635,395	122,151,730
Manitoba								
Alberta	149	22	1,579	—	1,750	866,206	6,217,772	7,083,978
British Columbia								
Canada	3,881	1,090	30,871	201	36,043	26,703,039	136,177,828	162,880,867

**TABLE 46. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces
1956 and 1957 — Concluded**

Province	Number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
dollars									
1957									
Nova Scotia	450	46	4,083	—	4,579	2,437,287	16,215,312	18,702,599	
Quebec	639	135	3,847	—	4,521	3,853,159	15,579,731	19,432,890	
Ontario	3,025	973	20,943	191	25,132	23,949,809	102,104,433	126,054,242	
Manitoba	189	22	1,401	—	1,612	1,065,527	5,524,088	6,589,615	
Alberta									
British Columbia									
Canada	4,303	1,176	30,274	191	35,944	31,355,782	139,423,564	170,779,346	

TABLE 47. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January	28,518	183	28,701	31,105	199	31,304
February	29,140	185	29,325	31,256	197	31,453
March	29,513	190	29,703	31,250	195	31,445
April	30,194	197	30,391	31,621	205	31,826
May	31,046	204	31,250	31,720	203	31,923
June	31,706	211	31,917	31,538	185	31,723
July	31,993	215	32,208	31,376	199	31,575
August	32,094	216	32,310	30,802	201	31,003
September	31,768	208	31,976	29,725	198	29,923
October	31,640	203	31,843	28,831	173	29,004
November	31,647	197	31,844	27,634	171	27,805
December	31,187	199	31,386	26,422	169	26,591
Average	30,871	201	31,072	30,274	191	30,465

TABLE 48. Capital and Repair Expenditures in the Primary Iron and Steel Industry, 1953-1957

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							
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	6,615	27,930	34,545	5,170	42,966	48,136	82,681
1956	7,613	54,083	61,696	6,531	56,215	62,746	124,442
1957 ¹	22,971	52,519	75,490	7,406	67,656	75,062	150,552

¹ Preliminary.

TABLE 49. Fuel and Electricity Used¹ in the Primary Iron and Steel Industry, 1956 and 1957

Kind		1956		1957	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal — Canadian	ton	88,442	\$ 782,740	70,369	\$ 708,193
Imported	"	67,473	689,846	28,148	316,113
Anthracite coal	"	16,149	205,835	—	—
Lignite coal	"	710	4,402	—	—
Coke	"	62,129	295,623	49,258	283,319
Gasoline	Imp. gal.	694,011	198,644	641,541	189,514
Kerosene	"	28,266	7,426	33,051	8,092
Fuel oil	"	128,780,476	13,821,339	119,046,268	13,022,772
Wood	cord	144	1,806	136	1,902
Gas — Liquefied petroleum gases	Imp. gal.	24,604	5,806	12,267	2,384
Other manufactured gas ²	M cu. ft.	31,762,387	8,793,162	29,767,793	8,316,842
Natural	"	400,416	196,051	1,596,146	925,630
Other fuel	—	—	5,437	—	124,636
Electricity purchased	kwh.	2,482,938,323	13,303,834	2,393,674,093	12,855,865
Total	—	—	38,311,951	—	36,755,262
Electricity generated for own use	kwh.	193,822,150 ²	—	159,960,374	—

¹ Does not include blast furnace gas made for own use.² Revised.

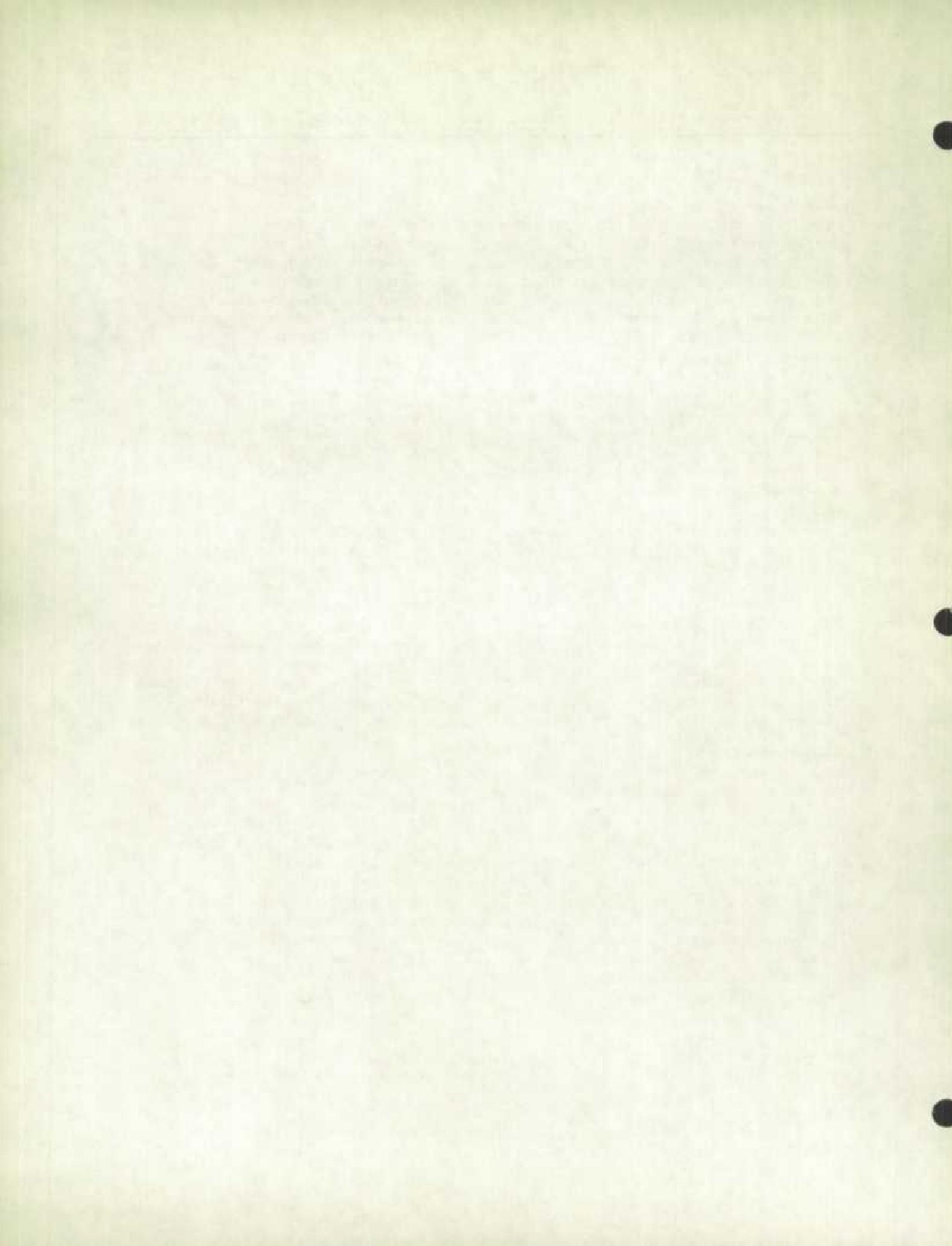
Directory of Firms in the Primary Iron and Steel Industry, 1957

Name of firm	Location of plant
(a) Pig Iron:	
Dominion Steel & Coal Corporation Limited,	Sydney, Nova Scotia
Dominion Iron & Steel Division	Sault Ste. Marie, Ontario
Algoma Steel Corporation, Limited	Port Colborne, Ontario
Canadian Furnace Co. Limited	Depew St., Hamilton, Ontario
Dominion Foundries & Steel, Limited	Hamilton, Ontario
Steel Company of Canada, Limited	
(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 Steel & Coal Corporation Limited,	Sydney, Nova Scotia
Dominion Iron & Steel Division	101 Belvedere St., Sherbrooke, Quebec
Canadian Unitcast-Steel, Ltd.	Longue Pointe, Montreal, Quebec
Canadian Steel Foundries (1956) Limited	5900 St. Patrick St., Montreal, Quebec
Canadian Tube & Steel Products, Limited	Laval St., Joliette, Quebec
Dominion Brake Shoe Company, Limited	Lachine, Quebec
Dominion Engineering Works Limited	Lachine, Quebec
Eastern Electro-Castings Co. Ltd.	St. Hyacinthe, Quebec
Griffin Steel Foundries Ltd.	206, rue du Pont, Québec, Québec
La Compagnie F.X. Drolet	Notre Dame St., Thetford Mines, Québec
Lynn MacLeod Metallurgy Limited	Abenaquis St., Sherbrooke, Quebec
Manganese Steel Castings, Limited	

¹ Not including the firms which made ferro-alloys as a secondary product.

Directory of Firms in the Primary Iron and Steel Industry, 1957 — Concluded

Name of firm	Location of plant
(c) Steel Ingots and Steel Castings — Concluded:	
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	Winnipeg, Manitoba
Dominion Bridge Co. Ltd.	P.O. Box 430, Calgary, Alberta
Foothills Steel Foundry & Iron Works Ltd.	66th Ave. & Centre St. S., Calgary, Alberta
Premier Steel Mills Ltd.	Edmonton, 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
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 Steel & Coal Corporation Limited	Sydney, Nova Scotia
Dominion Iron & Steel Division	5900 St. Patrick St., Montreal, Quebec
Canadian Tube & Steel Products, Limited.....	2320 Notre Dame St. W., Montreal, Quebec
Steel Company of Canada, Limited	Sault Ste. Marie, Ontario
Algoma Steel Corporation, Limited	Welland, Ontario
Atlas Steels, Limited	Sherman Ave. North, Hamilton, Ontario
Burlington Steel Company, Limited.....	Depew Street, Hamilton, Ontario
Dominion Foundries & Steel, Limited.....	Wilcox Street, Hamilton, Ontario
Steel Company of Canada, Limited	London, Ontario
Vanadium Alloys Steel Canada Limited	Selkirk, Manitoba
Manitoba Rolling Mill Company, Limited	Edmonton, Alberta
Premier Steel Mills Ltd.	Vancouver, British Columbia
Vancouver Rolling Mills Ltd.	
(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





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