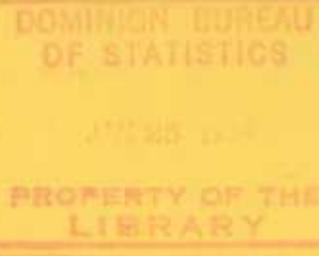


41-203

c2



CANADA



THE PRIMARY IRON AND STEEL INDUSTRY

1953

DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

Metal and Chemical Products Section



DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

Metal and Chemical Products Section

THE PRIMARY IRON AND STEEL INDUSTRY

1953

Published by Authority of

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

6512-624
12-11-54

Price 25 cents

Vol. 2—Part X—J-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1954.

NOTICE

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

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

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

The present report belongs in Part X, 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

1953

Statistics for the Primary Iron and Steel Industry include data for all establishments in Canada which were engaged chiefly in the manufacture of (a) pig iron, (b) ferro-alloys, (c) steel ingots and steel castings, (d) hot-rolled iron and steel products, (e) cold-drawn steel bars, strips and shapes. Forty-nine firms were included in this industry in 1953, and reports were received from 62 different plants or departments, including 5 blast furnace departments, 4 ferro-alloy plants, 39 steel furnace divisions, and 14 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 9 per cent lower in value in 1953 than in 1952, the totals being \$458,904,255 and \$504,000,394 respectively. Twenty-six works in Ontario accounted for 76.8 per cent of the total for Canada, or \$352,408,279; 16 plants in Quebec accounted for 10.9 per cent, or \$49,846,420; 5 plants in Nova

Scotia for 8.9 per cent, or \$40,945,920 while the remaining \$15,703,636, or 3.4 per cent, was accounted for by 4 plants in Manitoba, 2 in Alberta and 9 in British Columbia.

In 1953 a total of 34,956 people was employed in this industry, a slight decline from the 1952 total of 35,001. Seventy per cent of the employees, or 24,383, worked in plants in Ontario, 4,916 in Nova Scotia, 4,517 in Quebec, 980 in Manitoba and 520 in Alberta and British Columbia. Payments in salaries and wages during 1953 amounted to \$129,709,556, an increase of 4.3 per cent over the previous year's total of \$124,387,290. Salaries advanced to \$20,237,501 from \$18,972,041 and wages increased to \$109,472,055 from \$105,415,249.

Materials used in manufacturing processes cost \$212,374,287 in 1953 compared with \$239,001,158 in 1952, and the cost of fuel and electricity was \$29,572,323 as against \$31,421,918, a 10.5 per cent decline in the expenditures for materials, fuel and power.

PIG IRON

Output of 3,012,268 net tons of pig iron in 1953 was 12 per cent more than the 2,681,585 tons reported for the previous year. Production of basic iron amounted to 2,436,504 tons or 81 per cent of the total; foundry iron amounted to 182,821 tons, and malleable iron to 392,943 tons.

Producers' sales of pig iron totalled 626,624 tons at \$31,510,562 compared with 752,963 tons at \$37,998,156 in 1952.

Charges to iron blast furnaces during the year included 3,965,835 tons of imported iron ore, 1,269,815 tons of Canadian ore, 2,804,996 tons of coke and 1,079,781 tons of limestone.

Imports of pig iron during the calendar year increased to 25,484 from the 1,665 tons in 1952, and exports declined to 345,415 tons from 375,987 tons.

Producers' stocks of pig iron at the end of 1953 totalled 135,781 tons compared with 58,959 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 2,615,515 tons in 1953, or about 12 per cent more than in 1952 when the apparent domestic supply was 2,329,524 tons.

Producers of pig iron in Canada had 16 blast furnaces at the end of 1953 which could produce 3.89 million net tons if operated at rated capacity. Actual production of 3,012,268 net tons in 1953 showed an operating rate of about 77 per cent. Ten furnaces were in blast during the year.

FERRO-ALLOYS

Ferro-alloys were made in 1953 by 10 different concerns, 5 of which recovered ferrosilicon as a by-product in the manufacture of abrasives. Output of ferro-alloys in 1953 amounted to 153,660 tons, a decline of about 34 per cent from the 232,117 tons reported in 1952.

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

IRON AND STEEL PRODUCTS

STEEL INGOTS AND CASTINGS

Steel production increased about 11 per cent to 4,116,068 tons in 1953 from 3,703,111 tons in 1952, the output of steel ingots going to 4,009,548 tons from 3,577,758 tons, while castings production declined to 106,520 tons from 125,353 tons. Factory sales of ingots and castings totalled 133,389 tons at \$44,745,077.

Thirty-nine steel plants were in operation during the year. At the end of 1953 these plants had 130 furnaces, including 46 basic open-hearth furnaces with an annual rated capacity of 3,970,800 tons, 82

electric furnaces rated at 1,016,175 tons and 2 converters at 4,800 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 1953 used 2,311,378 net tons of pig iron, 2,200,518 tons of scrap iron or steel, 275,883 tons of iron ore, 301,078 tons of limestone, 171,525 tons of dolomite, 86,711 tons of lime, 91,578 tons of silica sand, 14,184 tons of magnesite and 54,222 tons of ferro-alloys.

ROLLED AND DRAWN STEEL

In 1953 there were 11 mills occupied chiefly in hot rolling of steel products and 3 mills making only cold-drawn and cold-rolled shapes. Eight of these mills were in Ontario, 2 in Nova Scotia, 2 in Quebec, 1 in Manitoba and 1 in British Columbia.

Rolling mill sales declined 2 per cent to \$345,490,910 from \$353,453,081 in 1952. The main items sold during the year under review were 592,078 tons of hot-rolled bars at \$75,013,792; 220,539 tons

of plates at \$23,136,938; 364,169 tons of rails and rail fastenings at \$33,750,470; 279,986 tons of semi-finished forms, such as blooms, billets, etc., at \$25,228,604; 262,815 tons of structural shapes at \$27,589,690; 113,095 tons of wire rods at \$10,687,946; 46,094 tons of cold-reduced bars at \$10,971,376; and other rolled products, including hot and cold-rolled sheets and strip, skelp, sheet piling, tin plate, galvanized sheets, etc., totalling 980,058 tons at \$131,741,891.

TABLE 1. Provincial Distribution of Active Plants in the Primary Iron and Steel Industry,
1953

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	12	2	-
Quebec	14	-	-	12	23	2	2
Ontario	18	4	13	12	75	8	2
Manitoba	3	-	-	3	6	1	-
Alberta	2	-	-	2	2	-	-
British Columbia	9	-	-	8	12	1	-
Canada	49 ²	5	16	39	130	14	4

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

2. Some firms operate in more than one province.

TABLE 2. Principal Statistics of the Primary Iron and Steel Industry, 1949-1953

Year	Number of plants	Number of employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1949	55	29,097	82,958,229	22,352,965	147,229,391	305,734,984
1950	55	29,051	85,411,927	26,714,750	159,282,919	340,540,042
1951	57	33,393	108,561,802	32,103,307	223,011,814	464,587,486
1952	58	35,001	124,387,290	31,421,918	239,001,158	504,000,394
1953	62	34,956	129,709,556	29,572,323	212,374,287	458,904,255
Per cent change, 1953 from 1952	-	-	+ 4.3	- 5.9	- 11.1	- 9.0

Note. Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 3. Principal Statistics of the Primary Iron and Steel Industry, by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1952						
Nova Scotia	5	5,319	15,802,344	4,545,124	22,466,114	40,477,549
Quebec	14	4,503	15,358,658	3,364,884	21,977,037	60,535,519
Ontario	24	23,479	87,661,218	22,606,300	189,473,864	386,834,377
Manitoba	4	1,058	3,385,366	553,026	3,208,475	9,834,937
Alberta	2	}	642	2,179,704	352,584	6,318,012
British Columbia	9					
Canada	58	35,001	124,387,290	31,421,918	239,001,158	504,000,394
1953						
Nova Scotia	5	4,916	15,681,950	3,441,967	23,742,464	40,945,920
Quebec	16	4,157	14,801,522	2,691,867	21,252,723	49,846,420
Ontario	26	24,383	93,900,808	22,528,785	162,583,778	352,408,279
Manitoba	4	980	3,365,384	591,106	2,815,466	10,001,096
Alberta	2	}	520	1,959,892	318,598	5,702,540
British Columbia	9					
Canada	62	34,956	129,709,556	29,572,323	212,374,287	458,904,255

(a) PIG IRON

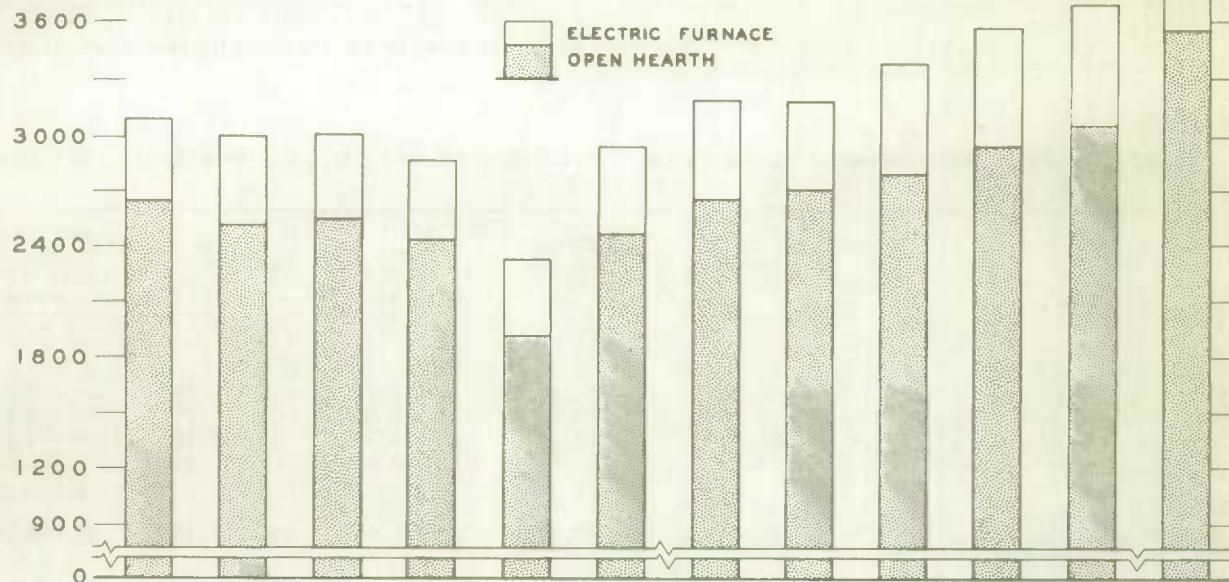
TABLE 4. Production of Pig Iron and Sales by Producers, 1952 and 1953

Grade	Delivered in molten condition	Machine-cast	Total tonnage made	Sales	
				Quantity	Income from sales
Net tons					
1952					\$
Basic	1,793,800	259,891	2,053,691	175,474	9,021,077
Foundry ¹	786	219,968	220,754	205,277	10,252,169
Malleable	11,145	395,995	407,140	372,212	18,724,910
Total	1,805,731	875,854	2,681,585	752,963	37,998,156
1953					
Basic	2,130,307	306,197	2,436,504	101,522	4,983,916
Foundry ¹	600	182,221	182,821	160,568	8,034,611
Malleable	3,895	389,048	392,943	364,534	18,492,035
Total	2,134,802	877,466	3,012,268	626,624	31,510,562

1. Includes silvery pig.

PRODUCTION OF IRON AND STEEL IN CANADA, 1942-1953
(THOUSAND NET TONS)

STEEL INGOTS
AND
CASTINGS



PIG IRON

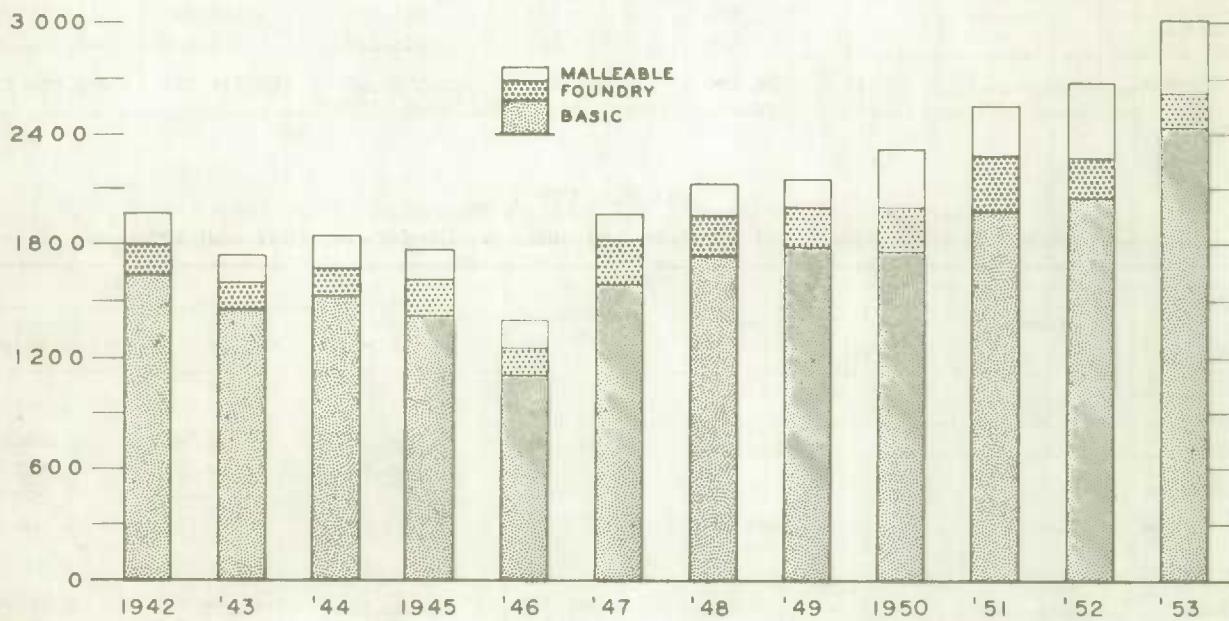


TABLE 5. Materials Charged to Iron Blast Furnaces, 1952 and 1953

Material	1952		1953	
	Quantity	Cost at furnace	Quantity	Cost at furnace
		Net tons		\$
Iron ore:				
Canadian (crude)	757,204	5,204,920	666,496	4,825,110
Imported (crude)	3,477,356	25,649,742	3,965,835	32,609,099
Canadian (beneficiated)	647,593	5,396,483	603,319	5,397,451
Imported (beneficiated)	-	-	-	-
Mill cinder, roll scale, flue dust, etc.	320,470	2,254,006	673,879	5,168,260
Scrap (net charge)	106,754	2,829,571	85,799	1,534,963
Limestone	981,489	1,777,843	1,079,781	2,267,711
Dolomite	212,237	349,249	295,984	470,122
Coke	2,493,903	34,981,825	2,804,996	38,882,422
Other materials	-	407,600	-	627,873
Total	-	78,851,239	-	91,783,011

TABLE 6. Production¹ of Pig Iron, by Grades, 1944-1953

Year	Basic	Foundry	Malleable	Total
				Net tons
1944.....	1,534,140	143,763	174,725	1,852,628
1945.....	1,420,205	198,244	159,500	1,777,949
1946.....	1,108,795	151,223	146,234	1,406,252
1947.....	1,587,254	234,612	140,982	1,962,848 ²
1948.....	1,741,613	216,246	167,880	2,125,739
1949.....	1,790,328	215,768	148,389	2,154,485
1950.....	1,763,440	238,263	315,418	2,317,121
1951.....	1,988,942	306,264	257,687	2,552,893
1952.....	2,053,691	220,754	407,140	2,681,585
1953.....	2,436,504	182,821	392,943	3,012,268

1. See footnote to Table 17.

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

TABLE 7. Production¹ of Pig Iron, by Provinces, 1944-1953

Year	Nova Scotia	Ontario	Total
			Net tons
1944.....	395,802	1,456,826	1,852,628
1945.....	374,302	1,403,647	1,777,949
1946.....	317,180	1,089,072	1,406,252
1947.....	354,789	1,606,787	1,962,848 ²
1948.....	438,430	1,687,309	2,125,739
1949.....	472,885	1,681,600	2,154,485
1950.....	513,029	1,804,092	2,317,121
1951.....	485,900	2,066,993	2,552,893
1952.....	395,262	2,286,323	2,681,585
1953.....	440,005	2,572,263	3,012,268

1. See footnote to Table 17.

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

IRON AND STEEL PRODUCTS

TABLE 8. Production of Pig Iron, by Months, 1952 and 1953

Month	1952			1953		
	For own use	For sale	Total	For own use	For sale	Total
Net tons						
January	142,312	66,841	209,153	202,259	42,347	244,606
February	144,208	54,954	199,162	189,478	35,704	225,182
March	180,256	60,499	240,755	196,957	41,615	238,572
April	166,918	47,412	214,330	189,054	52,529	241,583
May	170,600	66,479	237,079	211,324	60,137	271,461
June	162,164	67,102	229,266	201,601	64,579	266,180
July	167,741	61,820	229,561	209,431	63,527	272,958
August	162,018	59,369	221,387	198,448	68,801	267,249
September	151,116	71,570	222,686	180,898	63,065	243,963
October	151,132	69,332	220,464	201,342	64,004	265,346
November	153,332	72,158	225,490	203,561	51,082	254,643
December	176,825	55,427	232,252	201,291	19,234	220,525
Total	1,928,622	752,963	2,681,585	2,385,644	626,624	3,012,268

TABLE 9. Sales of Pig Iron by Producers, 1944-1953

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
		\$			\$
1944	400,010	8,641,495	1949	391,423	16,400,258
1945	428,902	9,527,026	1950	636,558	27,484,529
1946	320,525	8,087,403	1951	726,357	36,891,960
1947	458,300	14,172,493	1952	752,963	37,998,156
1948	454,341	17,165,056	1953	626,624	31,510,562

TABLE 10. Iron Ore, Fuel and Flux Charged to Iron Blast Furnaces, 1944-1953

Year	Iron ore	Mill cinder, scale, etc.	Iron and steel scrap	Coke	Limestone	Dolomite
Net tons						
1944	3,493,189	96,243	27,604	1,687,967	754,192	57,822
1945	3,033,454	281,189	37,067	1,631,852	757,178	39,418
1946	2,526,073	161,679	23,070	1,320,620	622,947	20,955
1947	3,672,975	154,595	39,474	1,903,419	780,600	99,507
1948	3,910,618	273,846	44,374	2,075,263	887,297	115,443
1949	3,846,066	298,598	58,240	2,011,749	827,455	121,847
1950	4,173,513	287,032	42,510	2,139,615	865,492	148,798
1951	4,645,021	345,497	65,390	2,377,968	954,546	171,757
1952	4,882,153	320,470	106,754	2,493,903	981,489	212,237
1953	5,235,650	673,879	85,799	2,804,996	1,079,781	295,984

TABLE 11. Imports into Canada and Exports of Pig Iron, 1944-1953

Year	Imports		Exports	
	Net tons	\$	Net tons	\$
1944	8,516	235,666	5,698	123,681
1945	7,589	231,062	21,854	493,159
1946	12,125	344,529	939	23,673
1947	8,893	252,054	1,475	55,610
1948	7,378	233,223	662	29,226
1949	20,531	936,311	12,506	547,963
1950	29,628	1,116,387	194,528	8,357,945
1951	22,126	1,000,915	223,635	12,303,679
1952	1,665	99,215	375,987	19,167,532
1953	25,484	1,246,449	345,415	16,984,257

TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1944-1953

Year	Net tons	Year	Net tons
1944	49,615	1949	71,231
1945	25,193	1950	85,372
1946	52,112	1951	81,220
1947	44,976	1952	58,959
1948	31,391	1953	135,781

TABLE 13. Apparent Supply of Pig Iron in Canada, 1944-1953

Year	Production	Add imports	Deduct exports	Add or deduct changes in producers' stocks ¹	Apparent supply ²
Net tons					
1944	1,852,628	8,516	5,698	- 21,385	1,834,061
1945	1,777,949	7,589	21,854	+ 24,422	1,788,106
1946	1,406,252	12,125	939	- 26,919	1,390,519
1947	1,962,848	8,893	1,475	+ 7,136	1,977,402
1948	2,125,739	7,378	662	+ 13,585	2,146,040
1949	2,154,485	20,531	12,506	- 39,840	2,122,670
1950	2,317,121	29,628	194,528	- 14,141	2,138,080
1951	2,552,893	22,126	223,635	+ 4,152	2,355,536
1952	2,681,585	1,665	375,987	+ 22,261	2,329,524
1953	3,012,268	25,484	345,415	- 76,822	2,615,515

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.

IRON AND STEEL PRODUCTS

TABLE 14. Consumption of Pig Iron in Canada, by Industries and by Provinces, 1950-1953
(As reported by consumers)

	1950	1951	1952	1953
Net tons				
(a) By Industries				
Steel ingots and castings	1,677,504	1,837,731	1,958,258	2,311,378
Iron castings.....	236,909	258,597	204,295	202,710
Boilers and platework	33,882	36,262	25,577	24,869
Agricultural implements	26,699	24,702	27,914	12,798
Machinery	24,313	33,209	27,868	20,444
Motor vehicles	6,289	4,925	7,576	9,140
Motor vehicle parts	24,331	24,322	25,071	31,880
Railway rolling stock	15,001	27,874	17,945	9,797
Brass and copper products	4,988	4,394	3,626	4,062
Shipbuilding	676	781	834	910
Hardware and tools	2,133	2,533	1,849	1,578
Miscellaneous iron and steel	923	17,512	12,790	15,318
Heating and cooking apparatus	19,851	17,542	14,861	12,905
Electrical apparatus and supplies	8,535	9,100	8,104	6,182
Bridge and structural steel.....	1,143	1,078	1,353	1,468
Total	2,083,177	2,300,562	2,337,921	2,665,439
(b) By Provinces				
Prince Edward Island	30	22	30	31
Nova Scotia.....	476,944	485,580	400,807	430,981
New Brunswick.....	3,794	3,525	2,954	3,136
Quebec.....	90,886	116,000	86,058	75,365
Ontario.....	1,502,733	1,683,650	1,839,201	2,148,164
Manitoba	6,753	9,550	6,597	6,172
Saskatchewan	15	22	488	—
Alberta.....	177	205	506	471
British Columbia	1,845	2,008	1,280	1,119
Canada	2,083,177	2,300,562	2,337,921	2,665,439

TABLE 15. Blast Furnaces in Canada, 1951-1953

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast		
				1951	1952	1953
Dominion Foundries & Steel Ltd.....	Hamilton, Ont.	1	320,000	128	366	365
		1	320,000	—	—	—
Dominion Iron & Steel Limited.....	Sydney, Nova Scotia....	1	225,000	365	366	365
		1	235,000	365	359	322
		1	135,000	349	281	365
		3	595,000	—	—	—
Canadian Furnace Company, Limited.....	Port Colborne, Ont.....	1	168,000	353	347	303
		1	55,000	289	343	59
		2	223,000	—	—	—
The Steel Company of Canada, Limited	Hamilton, Ont	1	123,000	364	356	304
		1	271,000	365	365	312
		1	377,000	365	320	365
		1	479,000	—	21	364
		4	1,250,000	—	—	—
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	114,000	357	364	199
		1	109,000	356	324	100
		1	218,000	364	366	254
		1	177,000	331	362	336
		1	440,000	362	362	358
		1	440,000	—	—	164
		6	1,498,000	—	—	—
Total for Canada		16	3,886,000	—	—	—

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
	000's of net tons		
United States	72,449	63,354	77,250
Canada	2,754	2,880	3,206
Mexico	224	264	288
Brazil	837	899	960
Chile	271	298	316
Austria	1,157	1,293	1,456
Belgium	5,349	5,277	4,648
Luxemburg	3,481	3,392	3,050
France	9,639	10,772	9,553
Saar	2,610	2,811	2,626
Italy	1,156	1,327	1,350
Netherlands	577	594	654
Norway	268	293	297
Sweden	938	1,160	1,107
Finland	112	119	88
United Kingdom	10,829	12,014	12,524
Spain	737	862	934
Hungary	661	716	774
Germany — Western	11,791	14,291	12,846
Eastern	352	375	386
Russia	23,000	27,000	29,200
Czechoslovakia	2,375	2,480	3,100
Poland	1,738	1,818	1,987
Romania	386	397	450
Yugoslavia	289	306	309
Union of South Africa	887	1,241	1,345
Australia	1,495	1,587	2,057
Turkey	171	212	231
India	2,043	2,062	1,990
Japan	3,557	3,953	5,129
Other countries	100	136	133
Total	162,234	164,183	180,243

(b) FERRO-ALLOYS

TABLE 17. Production of Ferro-alloys¹, 1944-1953

Year	Net tons	Year	Net tons
1944	171,323	1949	202,092
1945	171,642	1950	180,499
1946	139,392	1951	266,252
1947	227,123	1952	232,117
1948	232,734	1953	153,660

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

TABLE 18. Producers of Ferro-alloys, 1953

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, chrom-sil-x, ferromanganese
Electro Metallurgical Company of Canada	Welland, Ontario	Ferrosilicon, ferrochrome, ferromanganese, silico-manganese, spiegeleisen, silico-spiegeleisen
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)
St. Lawrence Alloys and Metals, Limited	Beauharnois, Quebec	Ferrosilicon, ferrozirconium
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, 1952 and 1953

	1952			1953		
	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	3,017,692	121,994	8,136,896	3,522,039	30,170	2,205,057
Electric	560,066	21,259	2,021,376	487,509	2,002	336,091
Total steel ingots	3,577,758	143,253	10,158,272	4,009,548	32,172	2,541,148
Steel castings:						
Basic open-hearth	34,680	33,914	10,964,147	30,406	27,285	10,144,516
Converter	379	400	157,278	254	184	117,930
Electric	90,294	88,156	35,898,594	75,860	73,748	31,941,483
Total steel castings	125,353	122,470	47,020,019	106,520	101,217	42,203,929
Total steel ingots and castings	3,703,111	265,723	57,178,291	4,116,068	133,389	44,745,077
Any other products	—	—	1,138,919	—	—	857,855
Total all products	—	—	58,317,210	—	—	45,602,932
Alloy steel included in above:						
Ingots	217,577	472	52,739	191,977	290	36,091
Castings	25,298	23,852	14,054,705	23,874	23,510	12,842,102
Total	242,875	24,324	14,107,444	215,851	23,800	12,878,193

TABLE 20. Materials Used in Steel Furnaces, 1952 and 1953

Material	1952		1953	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
	Net tons	\$	Net tons	\$
Pig iron:				
Own make	1,943,589	—	2,300,646	—
Purchased	14,669	815,922	10,732	591,975
Scrap iron or steel:				
Own make	1,027,181	—	1,150,449	—
Purchased	1,095,089	38,075,596	1,050,069	36,089,290
Spiegeleisen:				
..... 46		3,523	22	1,681
Silicospiegeleisen	130	14,742	553	57,249
Ferromanganese:				
High carbon.....	27,780	5,394,706	30,366	6,308,625
Medium carbon	369	140,261	263	106,342
Low carbon	699	286,564	750	308,004
Silicomanganese	7,462	1,643,885	7,101	1,642,078
Sil-x	182	42,025	244	47,442
Ferrosilicon:				
15%.....	370	27,376	321	24,146
25%.....	—	—	—	—
50%.....	8,318	1,002,756	7,965	965,776
75%.....	6	1,510	38	10,011
85-90%	280	67,587	351	85,920
Ferrochrome (including chrom-x):				
High carbon.....	3,334	803,568	2,557	666,289
Low carbon	3,028	1,406,703	2,429	1,180,814
Ferromolybdenum	155	268,536	61	108,348
Ferrophosphorus	220	19,910	280	25,863
Ferroselenium	6	36,636	5	32,963
Ferrotitanium	229	97,827	213	50,433
Ferrotungsten	212	1,609,590	49	275,761
Ferrovanadium	96	341,275	44	159,002
Ferrozirconium	21	4,299	20	4,135
Calcium silicon	177	73,090	119	52,963
Calcium manganese silicon	329	145,562	399	180,009
Other ferro-alloys	56	28,573	590	219,208
Aluminum ingot and shot	1,228	603,556	1,622	699,395
Copper ingots, cakes, shot, etc.	360	206,421	393	220,091
Nickel	1,957	2,134,632	1,443	1,597,978
Other metals	—	88,100	47	50,930
Ore, iron	277,804	4,108,139	275,883	4,972,579
Ore, manganese	63	4,001	—	—
Ore, chrome	1,012	62,587	592	37,720
Ore, tungsten	151	710,560	47	180,978
Bentonite	4,959	161,697	4,163	144,235
Coal:				
Anthracite	—	—	146	4,821
Bituminous	25	317	—	—
Coke	4,093	85,690	2,609	52,168
Charcoal	98	7,523	90	5,649
Dolomite:				
Crude	112,181	387,963	104,939	347,877
Calcined	37,129	870,888	66,586	1,562,163
Fluorspar	22,576	860,308	22,730	890,454
Ganister	7,362	32,326	5,468	27,710
Graphite	1,024	108,865	1,104	118,858
Lime	74,986	882,964	86,711	1,028,614
Limestone	276,202	654,974	301,078	722,293
Magnesite	17,918	1,018,921	14,184	821,769
Electrodes	—	1,807,218	—	1,611,657
Silica sands:				
For moulds	135,008	908,033	91,116	811,697
For sand-blasting	431	17,254	462	17,621
Other foundry sands	14,429	46,190	17,030	69,555
Sulphur	95	8,383	101	7,498
Firebrick, fireclay and other refractories	—	4,662,133	—	5,565,896
Calcium molybdate	8	8,256	6	9,507
Molybdenum trioxide (molybdic oxide) briquettes	461	574,392	396	469,424
All other materials	—	2,819,428	—	4,701,471
Total value of metals, ores and other materials used	—	76,193,741	—	75,944,935

IRON AND STEEL PRODUCTS

TABLE 21. Production of Steel Ingots and Steel Castings, by Grades, 1944-1953

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open- hearth	Electric	Open- hearth	Converter	Electric	
Net tons						
1944.....	2,517,894	355,974	35,032	2,470	104,792	3,016,162
1945.....	2,399,858	357,291	31,216	942	88,620	2,877,927
1946.....	1,897,960	353,781	24,566	600	50,378	2,327,285
1947.....	2,438,569	416,210	24,100	741	66,332	2,945,952
1948.....	2,620,946	466,117	34,041	395	78,981	3,200,480
1949.....	2,688,036	407,590	28,671	80	66,000	3,190,377
1950.....	2,771,842	526,229	22,488	232	62,784	3,383,575
1951.....	2,917,005	530,127	30,758	282	90,548	3,568,720
1952.....	3,017,692	560,066	34,680	379	90,294	3,703,111
1953.....	3,522,039	487,509	30,406	254	75,360	4,116,068

TABLE 22. Production of Steel Ingots and Steel Castings, by Months, 1949-1953

Month	1949	1950	1951	1952	1953
Net tons					
January	284,707	289,949	309,653	315,034	346,648
February	259,271	258,123	281,380	303,365	326,063
March	238,461	294,303	314,826	336,896	366,974
April	269,968	279,320	312,005	314,141	362,291
May	293,179	290,906	313,312	328,024	368,967
June	270,455	276,423	293,515	305,455	352,463
July	238,830	264,190	274,602	293,072	323,385
August	248,749	281,312	286,804	286,998	338,703
September	240,748	274,947	268,230	284,996	329,344
October	258,891	293,928	309,414	306,194	362,498
November	259,722	289,488	307,075	306,274	332,703
December	267,396	290,686	297,904	322,752	306,029
Total	3,190,377	3,383,575	3,568,720	3,703,111	4,116,068

TABLE 23. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1944-1953

Year	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
Net tons							
1944.....	578,346	117,638	2,253,685	42,149	18,085	6,259	3,016,162
1945.....	590,365	108,779	2,116,066	44,284	13,156	5,277	2,877,927
1946.....	425,883	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

TABLE 24. Sales of Steel Ingots and Steel Castings by Producers, 1944-1953

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	Net tons	\$		Net tons	\$
1944	171,072	34,848,365	1949	234,218	36,372,735
1945	148,247	28,121,723	1950	313,780	38,652,613
1946	117,863	20,969,581	1951	295,279	52,227,452
1947	152,113	25,260,293	1952	265,723	57,178,291
1948	176,314	34,268,313	1953	133,389	44,745,077

TABLE 25. Production of Alloy Steel Ingots and Castings, 1944-1953

Year	Ingots	Castings	Total
			Net tons
1944	328,640	19,263	347,903
1945	305,542	14,022	319,564
1946	100,016	10,697	110,713
1947	134,339	13,558	147,897
1948	155,863	15,737	171,600
1949	143,977	12,975	156,952
1950	196,239	16,498	212,737
1951	211,137	19,985	231,122
1952	217,577	25,298	242,875
1953	191,977	23,874	215,851

TABLE 26. Metal, Ore and Flux Charged to Steel Furnaces, 1944-1953

Year	Pig iron	Ferro-manganese alloys ¹	Other ferro-alloys	Scrap iron and steel	Iron ore	Limestone	Dolomite	Fluorspar
	Net tons							
1944	1,513,586	31,304	7,519	1,642,250	154,415	237,167	85,601	20,024
1945	1,416,344	31,143	15,101	1,741,895	106,614	217,499	77,206	19,462
1946	1,085,005	22,403	10,598	1,517,014	132,613	181,440	70,050	13,805
1947	1,542,040	27,082	11,737	1,671,676	155,621	231,990	95,683	18,768
1948	1,696,128	30,181	11,150	1,833,539	170,790	244,096	118,807	20,651
1949	1,736,824	30,721	11,635	1,770,758	183,572	254,072	120,494	21,136
1950	1,667,504	32,691	12,097	1,995,326	244,512	265,941	136,666	21,800
1951	1,837,731	34,361	15,152	2,106,714	304,403	257,635	151,147	23,374
1952	1,958,258	36,486	16,513	2,122,270	277,804	276,202	149,310	22,576
1953	2,311,378	39,055	15,167	2,200,518	275,883	301,078	171,525	22,730

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

TABLE 27. Steel Furnaces in Canada, December 31, 1953

	Type	Number of units	Size	Total annual capacity
			Net tons	
Nova Scotia:				
Dominion Iron & Steel Limited, Sydney	O.H.	5	56	240,000
	O.H.	2	175	200,000
	O.I.I.	3	125	262,000
	Elec.	1	11	32,000
Total	—	11	—	734,000
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	51,600
	Elec.	1	4	7,800
	Elec.	1	2½	4,900
	Elec.	1	½	1,000
Total	—	6	—	65,300
Canadian Tube and Steel Products Ltd., Montreal	Elec.	2	25	120,000
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
Eastern Electro-Castings Co. Ltd., Lachine	Elec.	1	5	16,200
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	20	28,000
	Elec.	1	8	12,000
	Elec.	1	4	3,300
Total	—	3	—	43,300
Sorel Steel Foundries Ltd., Sorel	Elec.	1	4	5,000
Ontario:				
Algoma Steel Corp. Ltd., Sault Ste. Marie	O.H.	8	84	432,000
	O.H.	4	131	388,000
	O.H.	2	300	300,000
Total	—	14	—	1,120,000¹
Atlas Steels Limited, Welland	Elec.	1	6	7,200
	Elec.	1	10	12,000
	Elec.	2	25	64,000
	Elec.	2	45	86,400
Total	—	6	—	169,600
Burlington Steel Co. Ltd., Hamilton	Elec.	1	7	26,000
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	26,400
	Elec.	2	50	140,000
	Elec.	1	2½	9,000
Total	—	9	—	428,600
Fahr alloy Canada Ltd., Orillia	Elec.	1	½	1,500
	Elec.	1	1½	2,300
	Elec.	1	2	3,100
Total	—	3	—	6,900

1. Does not include 2 25-ton Bessemer converters rated at 120,000 tons annually, used for duplexing.

TABLE 27. Steel Furnaces in Canada, December 31, 1953 — Concluded

	Type	Number of units	Size	Total annual capacity
Net tons				
Ontario — concluded:				
Ford Motor Co. of Canada Ltd., Windsor	Elec.	1	5	10,500
	Elec.	15	4	88,100
	Elec.	1	½	750
	Elec.	1	¼	625
Total	—	18	—	99,975
Hayward Tyler of Canada Ltd., Kitchener	Elec.	1	¼	500
	Elec.	1	½	
Total	—	2	—	500
William Kennedy and Sons Ltd., Owen Sound	Elec.	1	1¼	2,400
	Elec.	1	4	8,000
Total	—	2	—	10,400
Sheepbridge Engineering (Canada) Ltd., Guelph	Elec.	1	½	1,500
Steel Company of Canada, Hamilton	O.H.	4	113	370,300
	O.H.	5	182	664,600
	O.H.	4	295	755,100
	Elec.	1	91	110,000
Total	—	14	—	1,900,000
Welland Electric Steel Foundry Ltd., Welland	Elec.	1	1½	5,400
	Elec.	1	½	
	Elec.	1	¼	
Total	—	3	—	5,400
Manitoba:				
Manitoba Rolling Mill Co. Ltd., Selkirk	O.H.	2	20	54,000
	Elec.	1	6	24,000
	Elec.	1	10	30,000
Total	—	4	—	108,000
Manitoba Steel Foundries Ltd., Selkirk	Elec.	1	5	4,000
Vulcan Iron Works Ltd., Winnipeg	Elec.	1	3	3,600
Alberta:				
Riverside Iron & Engineering Works Ltd., Calgary	Elec.	1	1½	1,300
Foothills Steel Foundry and Iron Works, Calgary	Elec.	1	½	1,200
British Columbia:				
A-1 Steel and Iron Foundry, Vancouver	Elec.	1	¼	1,200
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	1 2½	38,000
Victoria Machinery Depot Co. Ltd., Victoria	Elec.	1	2	2,600
Canadian Sumner Iron Works Ltd., Vancouver	Elec.	1	1	3,600

TABLE 28. Summary of Steel Furnace Capacity, December 31, 1953

	Number of furnaces	Total annual capacity
		Net tons
Basic open-hearth.....	46	3,970,800
Electric.....	82	1,016,175
Converter.....	2	4,800
Total.....	130	4,991,775
Steel ingots:		
Basic open-hearth.....	—	3,919,200
Electric.....	—	738,300
Total.....	—	4,657,500
Steel castings.....	—	334,275
Total ingots and castings.....	—	4,991,775

TABLE 29. Summary of Steel Furnace Capacity, by Provinces, December 31, 1953

Province	Total annual capacity
	Net tons
Nova Scotia.....	737,000
Quebec.....	288,700
Ontario.....	3,774,875
Manitoba.....	115,600
Alberta.....	2,500
British Columbia.....	73,100
Canada.....	4,991,775

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
	000's of net tons		
United States.....	105,200	93,168	111,610
Canada.....	3,508	3,659	4,104
Mexico.....	474	437	493
Argentina.....	276	280	336
Brazil.....	915	962	1,098
Austria.....	1,133	1,166	1,401
Belgium.....	5,515	5,504	4,846
Luxemburg.....	3,393	3,307	2,930
France.....	10,838	11,980	11,023
Saar.....	2,869	3,112	2,959
Italy.....	3,351	3,890	3,807
Netherlands.....	610	755	947
Sweden.....	1,657	1,803	1,944
United Kingdom.....	17,515	18,390	19,722
Spain.....	895	1,000	986
Yugoslavia.....	478	489	568
Germany - Western.....	14,885	17,422	16,997
Eastern.....	1,711	1,628	2,296
Russia.....	34,500	38,600	41,700
Czechoslovakia.....	3,651	3,853	4,570
Hungary.....	1,360	1,534	1,658
Poland.....	3,078	3,584	3,920
Romania.....	705	762	874
Union of South Africa.....	1,108	1,388	1,433
Australia.....	1,606	1,841	2,295
Turkey.....	149	169	179
India.....	1,662	1,768	1,687
Japan.....	7,168	7,706	8,457
Other countries.....	959	2,720	3,356
Total.....	231,168	232,876	258,194

(d) ROLLED AND DRAWN STEEL

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1952 and 1953

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
1952		Net tons	
A. HOT-ROLLED PRODUCTS			\$
Semi-finished rolled forms of iron and steel:			
Blooms, billets, slabs and sheet bars, except those for forging, and export items listed immediately below	2, 564, 945	254, 591	19, 051, 843
Blooms, billets, slabs and sheet bars, for export.....	22, 997	22, 997	3, 333, 854
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	141, 490	122, 165	12, 560, 467
Total semi-finished rolled forms	2, 729, 432	399, 753	34, 946, 164
Rails	253, 675	251, 894	21, 223, 964
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	315, 789	128, 900	11, 554, 693
Structural steel shapes:			
Heavy, including beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thicknesses of 1/8" and over	136, 001	141, 233	14, 441, 746
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item.....	84, 615	71, 686	7, 698, 760
Total structural steel shapes²	220, 616	212, 919	22, 140, 506
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	548, 985	461, 041	66, 562, 146
Bars for concrete reinforcing, including twisted and other deformed bars	140, 663	139, 261	14, 562, 479
Long angle splice bars, tie plate bars and all other long rail joint bars	97, 324	—	—
Total hot-rolled bars²	786, 972	600, 302	81, 124, 625
Plates, all kinds, including boiler and other sheared plates	234, 115	234, 799	26, 071, 334
Hot-rolled sheets and strip, skelp, sheet piling and all other hot-rolled forms	1, 004, 869	306, 881	38, 607, 416
B. COLD-ROLLED AND COATED PRODUCTS			
Bars, cold-rolled and cold-drawn.....	50, 545	50, 652	13, 049, 782
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	852, 686	523, 271	86, 715, 227
C. OTHER PRODUCTS			
Rail fastenings — Splice bars or fish plates.....	16, 344	15, 803	1, 891, 455
Tie plates	74, 519	73, 605	7, 822, 057
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc.	—	—	8, 305, 858
Total value of production	—	—	353, 453, 081

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.

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1952 and 1953 — Concluded

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

1. Includes the tonnages made in rolling mills only.

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

TABLE 32. Materials Used for All Purposes in Iron and Steel Rolling and Drawing Mills,
1952 and 1953

Material	Companies' own make	Purchased	
		Quantity	Cost at works
		Net tons	\$
1952			
Steel ingots	3,404,553	271,246	20,036,026
Steel blooms	103	—	—
Steel slabs	—	151,695	12,272,818
Steel billets	135,144	105,085	7,942,197
Steel bars	—	40,698	5,000,568
Rails, old	—	57,543	2,508,419
Axles, old	—	769	35,484
Scrap iron and steel, other	3,820	—	—
Tin	—	2,703	6,587,816
Zinc spelter	—	6,092	1,973,304
Palm oil	—	937	377,012
Ammonium chloride	—	459	87,688
Sulphuric acid, 100%	—	17,811	393,581
Hydrochloric acid, 20° Be.	—	528	24,579
Silica sand	—	424	3,690
All other materials and supplies	—	—	3,192,050
Total	—	—	60,435,232
1953			
Steel ingots	3,928,675	16,269	1,139,201
Steel blooms	14	—	—
Steel slabs	—	5,660	490,048
Steel billets	116,567	113,580	9,548,163
Steel bars	—	38,716	5,020,813
Rails, old	—	64,241	3,084,592
Axles, old	—	2,249	111,756
Scrap iron and steel, other	10,818	6,712	226,369
Tin	—	2,054	4,758,717
Zinc spelter	—	6,022	1,280,647
Palm oil	—	786	223,063
Ammonium chloride	—	427	81,651
Sulphuric acid, 100%	—	18,623	472,194
Silica sand	—	458	3,964
All other materials and supplies	—	—	3,253,351
Total	—	—	29,694,529

TABLE 33. Net Production¹ in Canada of Hot-Rolled Iron and Steel Products, 1949-1953

	1949	1950	1951	1952	1953
Net tons					
Blooms, billets and slabs	133,233	246,473	148,629	164,487	174,864
Rails	329,749	286,672	257,244	253,675	303,318
Rail fastenings	62,974	67,958	91,866	97,324	69,286
Wire rods	290,863	293,866	318,266	315,789	286,471
Structural shapes	168,099	124,280	228,092	220,616	272,220
Bars	594,703	608,912	671,139	689,648	662,989
Plates, sheets, hoops, bands and strips	793,623	905,911	1,058,751	1,075,263	1,258,607
Other hot-rolled forms	146,249	107,988	85,550	163,721	93,539
Total	2,519,493	2,642,060	2,859,537	2,980,523	3,121,294

1. Inter-mill shipments have been excluded.

IRON AND STEEL PRODUCTS

TABLE 34. Alloy Steel Products Made and Sold by Rolling Mills, 1952 and 1953

	1952		1953	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Bars	107,888	103,330	100,278	99,125
Other products, including plates, billets, forgings, sheet piling and wire rods, etc.	141,952	35,368	109,581	21,149
Total alloy steel	249,840	138,698	209,859	120,274

TABLE 35. Products Rolled from Old Rails, Axles, Etc., 1952 and 1953

	1952		1953	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	Net tons			
Rails	—	—	—	—
Bars	45,466	45,248	52,689	49,898
Other products	7,592	7,400	4,929	4,098
Total	53,058	52,648	57,618	53,996

TABLE 36. Pig Iron, Steel Ingots and Castings and Semi-Finished Rolled Forms Shipped for Export by Producers, 1952 and 1953

	Net tons	1952	1953
Pig iron	371,426		282,194
Steel ingots	22,047		28,706
Steel castings	4,496		5,434
Semi-finished rolled forms	22,997		64,522
Total	420,966		380,856

TABLE 37. Production and Factory Sales of Steel Rails, 1944-1953

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons		\$
1944	325,486	324,052	15,921,873
1945	291,651	288,630	14,229,922
1946	206,374	210,020	10,716,361
1947	250,049	242,729	13,236,588
1948	337,244	328,572	21,887,014
1949	329,749	339,390	24,580,963
1950	286,672	286,753	21,305,231
1951	257,244	254,911	19,910,580
1952	253,675	251,894	21,223,964
1953	303,318	299,808	26,465,922

TABLE 38. Production and Factory Sales of Finished Rail Fastenings, 1944-1953

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		\$
1944	41,826	38,351	2,123,629	14,583	14,324	997,004
1945	40,129	40,784	2,271,313	10,847	10,836	778,664
1946	38,778	41,097	2,474,231	11,918	11,988	876,209
1947	39,175	39,459	2,572,632	10,124	9,666	747,608
1948	49,669	49,575	3,901,039	23,005	23,190	2,151,653
1949	48,493	48,343	4,231,844	14,481	14,267	1,398,332
1950	53,807	53,510	4,603,788	14,151	13,912	1,377,614
1951	67,588	66,783	6,464,668	18,655	18,577	2,008,149
1952	74,519	73,605	7,822,057	16,344	15,803	1,891,455
1953	50,181	50,202	5,530,240	14,939	14,159	1,754,308

TABLE 39. Production and Factory Sales of Wire Rods of Iron or Steel, 1944-1953

Year	Total tonnage made	Factory sales		Year	Total tonnage made	Factory sales			
		Tonnage sold	Income from sales			Tonnage sold	Income from sales		
						Net tons	\$		
		Net tons	\$			Net tons	\$		
1944	244,270	105,046	4,300,337	1949	290,863	114,114	7,137,187		
1945	257,606	105,648	4,417,200	1950	293,866	120,429	8,542,496		
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		

TABLE 40. Production and Factory Sales of Blooms, Billets and Slabs, 1944-1953

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	\$	
1944	1,643,679	125,159	4,849,949	226,114	211,800	12,191,804
1945	1,572,489	88,950	3,425,864	227,577	211,468	14,306,145
1946	1,589,256	188,224	7,979,155	45,599	37,635	2,248,394
1947	1,980,914	264,871	11,278,574	138,034	128,654	7,075,891
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

1. Shipments to other Canadian rolling mills are included.

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

IRON AND STEEL PRODUCTS

TABLE 41. Production and Factory Sales of Hot-Rolled Bars¹ of All Kinds, 1944-1953

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons	\$	
1944	534,196	428,982	30,099,216
1945	574,446	438,622	31,680,209
1946	492,853	377,250	28,448,498
1947	609,763	473,430	38,949,914
1948	634,315	507,364	47,877,986
1949	662,488	532,092	49,414,874
1950	684,934	552,006	56,694,325
1951	763,005	587,160	73,105,972
1952	786,972	600,302	81,124,625
1953	732,275	592,078	75,013,792

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

TABLE 42. Production of Structural Steel Shapes¹ of All Kinds, 1944-1953

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons	\$	
1944	155,908	159,241	9,380,379
1945	191,907	190,050	10,399,503
1946	131,894	131,900	7,697,043
1947	180,226	175,386	10,995,147
1948	175,031	173,949	12,830,518
1949	168,099	177,314	13,940,920
1950	124,280	122,943	10,515,280
1951	228,092	223,281	21,612,670
1952	220,616	212,919	22,140,506
1953	272,220	262,815	27,589,690

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, 1944-1953

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	Net tons	\$	
1944	390,343	389,671	26,566,575
1945	282,592	275,674	16,687,112
1946	170,043	165,356	9,480,384
1947	192,155	188,580	11,566,700
1948	228,978	228,492	17,300,582
1949	178,440	171,653	14,596,604
1950	150,857	146,559	12,640,871
1951	184,707	183,994	17,977,171
1952	234,115	234,799	26,071,334
1953	221,818	220,539	23,136,938

TABLE 44. Imports of Primary Forms of Iron and Steel, 1953

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Pig iron:				
Basic	United States	716	—	—
Malleable	United States	3,424	—	—
Silvery	Belgium	110	—	—
Foundry	United States	2,508	—	—
	United States	4,748	—	—
	Australia	7,067	—	—
	Spain	3,024	—	—
	Netherlands	3,360	—	—
Ingots	United States	1,802	54	—
	Austria	111	—	—
Billets, blooms, slabs and sheet bars	United States	79	401	—
	United Kingdom	—	24	—
Tube rounds and tube billets	United States	1,709	—	1.9
Bars and sections:				
Hot-rolled, n.o.p.	United States	46,588	6,700	270.5
	United Kingdom	2,812	857	124.6
	Belgium	12,810	—	—
	France	1,769	—	—
	Japan	112	—	—
	Germany	54	—	—
	Austria	19	—	—
	Sweden	1	—	—
Hot-rolled:				
For agricultural implements	United States	7,480	8	—
	United Kingdom	33	—	—
Rounds over 4 7/8", squares over 4"	United States	1,010	143	—
	United Kingdom	681	203	11.1
	Belgium	95	—	—
	France	24	—	—
	United States	10,588	—	77.9
	Belgium	3,581	—	—
	United Kingdom	67	—	.1
	France	451	—	—
	Germany	1	—	—
	Japan	108	—	—
Structurals (bar sizes) for agricultural implements	United States	4,079	—	—
Sash or casement sections	United States	3,500	—	—
	Belgium	163	—	—
	United Kingdom	172	—	—
Cold-finished, n.o.p.	United States	6,905	253	80.2
	United Kingdom	1,816	49	31.7
	Belgium	428	—	—
	Sweden	102	45	—
	France	20	—	—
	United States	3,819	—	—
Tool steel	United States	175	659	—
	United Kingdom	513	867	—
Structurals	United States	189,526	—	—
	United Kingdom	12,189	—	—
	Belgium	44,022	—	—
	France	7,803	—	—
	Japan	18	—	—
	Germany	22	—	—
Plates:				
78" and under in width	United States	49,457	711	718.3
	France	378	—	—
	United Kingdom	19,734	—	428.2
	Germany	2,515	—	—
	Japan	6,497	—	—
	Belgium	2,107	—	—
Over 78" and under 100" in width	United States	35,850	1	40.6
	United Kingdom	15,418	—	—
	Japan	29	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1953 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Plates— concluded:				
100" in width and over	United States	5,029	—	278.0
Flanged, dished or curved	United Kingdom	1,144	—	—
Boiler, pulp-mill digesters	United States	1,286	—	8.5
Chequered or surface pattern	United States	3,901	—	—
United Kingdom	224	—	—	—
Sheets:				
Silicon .075 or more	United States	—	22,043	—
United Kingdom	—	445	—	—
Galvanized	United States	14,081	—	—
United Kingdom	5,388	—	—	—
France	2	—	—	—
Hot-rolled:				
18 gauge and heavier	United States	59,691	503	238.2
United Kingdom	6,452	—	300.9	—
Sweden	31	—	22.7	—
Belgium	13	—	—	—
Japan	178	—	—	—
Lighter than 18 gauge	United States	1,071	15	89.2
United Kingdom	524	—	—	66.6
Cold-rolled:				
18 gauge and heavier	United States	12,290	50	1,112.5
United Kingdom	4,144	—	393.6	—
Sweden	3	—	13.6	—
United States	22,613	—	1,874.3	—
United Kingdom	16,424	—	206.5	—
Belgium	318	—	—	—
Corrugated	United States	7,723	—	—
United Kingdom	27	—	—	—
Germany	22	—	—	—
Coated with paint, tar, asphaltum, etc.	United States	1,611	—	—
For saws	United States	44	564	—
United Kingdom	7	13	—	—
Sweden	—	1	—	—
For hollow ware (vitreous enamel)	United States	8,011	—	—
United Kingdom	9,613	—	—	—
Belgium	73	—	—	—
Black plate—tin mill	United States	147	—	—
For motor vehicles	United States	14,975	—	—
United Kingdom	53	—	—	—
Belgium	55	—	—	—
For heating apparatus	United States	250	—	—
For tubes	United States	501	—	—
Tin plate—Primes	United Kingdom	1,091	—	—
Electrolytic, 25 pounds	United States	3,052	27	—
Electrolytic, 50 pounds	United Kingdom	81	—	—
Electrolytic, 75 pounds	United States	966	—	—
Terne plate—Long	United States	6,608	—	—
Short	United States	2,618	—	—
United Kingdom	12	—	—	—
Strip:				
Hot-rolled:				
18 gauge and heavier	United States	16,614	145	85.3
Belgium	248	—	—	—
France	65	—	—	—
United Kingdom	75	12	—	—
United States	384	46	3.7	—
United Kingdom	1	—	—	—
Cold-rolled:				
18 gauge and heavier	United States	4,087	211	457.5
United Kingdom	435	5	—	—
Sweden	1	1	—	—
Netherlands	6	—	—	—
United States	4,617	131	1,832.0	—
Sweden	175	98	.7	—
United Kingdom	814	—	—	.5
Belgium	15	—	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1953 - Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Strip—concluded:				
For cold rolling	United States	790	—	—
For shoe and corset laces, buckles, ball bearings, etc.	United States	203	—	—
For saws	United Kingdom	20	—	—
For motor vehicles	United States	43	505	—
For tubes	United Kingdom	—	5	—
For tubular products	Sweden	1	138	—
Coated with paint, tar, asphaltum	United States	19,938	—	—
Silicon .075 or more	United States	1,832	—	—
For butt hinges	United Kingdom	57	—	—
For hoops	United States	774	—	—
Galvanized strip	United Kingdom	20	—	—
	United States	6,602	—	—
	Germany	83	—	—
	United Kingdom	9	—	—
	United States	—	4,814	—
	United Kingdom	—	18	—
	United States	1,626	—	—
	United Kingdom	28	—	—
	Sweden	1	—	—
	United States	614	—	—
	United Kingdom	442	—	—
	United States	4,802	—	—
	United Kingdom	974	—	—
	Germany	6	—	—
	Belgium	12	—	—
Skelp:				
15 3/8" in width	United States	89,133	—	—
	France	8,252	—	—
	Belgium	7,971	—	—
	United Kingdom	5,712	—	—
	Germany	7	—	—
Over 15 3/8" in width	United States	9,326	—	—
	Belgium	108	—	—
Plate	United States	989	—	—
Pipes and tubes:				
Cast	United States	769	—	—
	United Kingdom	26,333	—	—
	France	5	—	—
	United States	42	—	—
	United Kingdom	5	—	—
Repair of pressure parts of boilers:				
Hot-finished	United States	3,867	72	101.5
	United Kingdom	1,703	—	—
	Sweden	7	—	.9
	Germany	48	—	—
Cold-drawn	United States	561	41	27.5
	United Kingdom	208	—	1.8
	Sweden	84	—	—
	United States	2,466	—	10.7
	United Kingdom	1,149	—	—
Seamless, 12" and under in diameter:				
Cold-drawn	United States	4,039	3,546	333.4
	United Kingdom	2,397	8	199.1
	Sweden	121	88	7.3
	Germany	61	—	—
Hot-finished	United States	11,817	772	114.3
	United Kingdom	6,902	—	.2
	Sweden	—	84	—
	France	38	—	—
Seamless, over 12" in diameter:				
Hot-finished	United States	4,109	30	5.6
	United Kingdom	4,602	—	—
	United States	5,354	3	96.0
	United Kingdom	10,338	—	.2
	Belgium	112	—	—
	Germany	21	—	—
	France	176	—	—
Welded, 4" and under in diameter	United States	94,199	—	34.9
	United Kingdom	3,273	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1953 - Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Pipes and tubes—concluded:				
Tubing:				
Not over 1/2" diameter, welded and coated.....	United States	351	—	—
Spiral-welded	United States	3,414	—	—
Conduit.....	United States	3,965	—	—
Casings	United Kingdom	7	—	—
	Germany	3	—	—
	United States	71,431	—	—
	United Kingdom	16,012	—	—
	Germany	3,786	—	—
	Japan	1,258	—	—
	Italy	1,914	—	—
	Belgium	1,216	—	—
Fittings and couplings.....	United States	5,275	7	73.6
	United Kingdom	460	—	—
	Germany	118	—	—
	Japan	88	—	—
Wire rope	United States	506	—	.3
	United Kingdom	849	—	—
	Belgium	23	—	—
	Germany	264	—	—
	Norway	8	—	—
	Holland	51	—	—
Wire for rope	United States	5,767	—	1.9
	United Kingdom	8,147	—	—
	Germany	5	—	—
	Norway	46	—	—
Wire—For corset laces, steels, etc.	United States	117	—	—
Wire—For spring mattresses, etc.	United Kingdom	2	—	—
Wire, coated.....	United States	4,057	—	—
	United Kingdom	683	—	—
	United States	519	—	—
	United Kingdom	138	—	—
	Germany	31	—	—
Wire, all other	United States	3,536	172	27.5
	United Kingdom	233	2	1.7
	Germany	100	12	—
	Sweden	27	1	—
	Belgium	94	—	—
	France	60	—	—
	Netherlands	28	—	—
Wire rods, not over 3/8" in diameter.....	United States	3,225	—	—
	Belgium	3,048	—	—
	Germany	2,294	—	—
	United Kingdom	2,108	—	—
	France	697	—	—
	Sweden	114	—	—
Welding wire and welding rods	United States	2,103	576	6.8
	United Kingdom	—	1	.2
Castings:				
For agricultural implements	United States	623	—	—
For ingot moulds.....	United States	33,555	—	—
Malleable	United Kingdom	272	—	—
Non-malleable	United States	168	—	—
Steel	United States	460	—	—
	United States	276	8	—
	United Kingdom	4	—	—
	France	46	—	—
	Norway	265	—	—
For railway vehicles	United States	39	—	—
Rolls.....	United States	4,426	978	—
Piston rings (rough)	United Kingdom	204	70	—
	United States	153	—	—
	United Kingdom	1	—	—
Forgings.....	United States	522	57	1.7
	United Kingdom	407	—	—
	Germany	12	—	—
Wheels — For railway rolling stock	United States	443	—	—
	United Kingdom	14,871	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1953 — Concluded

Commodity	Country of origin	Carbon	Alloy	Stainless
Tons of 2,000 pounds				
Tires—For railway rolling stock	United States	123	—	—
	United Kingdom	1,550	—	—
Axles—For railway vehicles	United States	762	—	—
Rails:				
60 lb. and under	United States	760	—	—
	Belgium	313	—	—
	United Kingdom	53	—	—
	Germany	60	—	—
Over 60 lb. and including 100 lb.	United States	2,776	—	—
	United Kingdom	808	—	—
	United States	3,300	—	—
	United Kingdom	6	—	—
Track material:				
Angles, bars, tie plates, rail joints	United States	7,955	—	—
	Belgium	36	—	—
	United Kingdom	204	—	—
	Germany	4	—	—
Intersections, switches, frogs	United States	275	—	—
	Belgium	1	—	—
Total imports	United States	1,000,393	44,246	8,005.2
	All other	343,074	3,047	1,812.2
Total		1,343,467	47,293	9,817.4

TABLE 45. Exports of Primary Iron and Steel, 1953

Commodity	Total tonnage Tons of 2,000 pounds
Pig iron	345,415
Ingots, blooms and billets	127,012
Bars	20,285
Rods	1,144
Plates, sheets and strips	86,254
Rails	3,445
Structural shapes	4,791
Pipe and tubing:	
Wrought iron	344
Cast iron	415
Galvanized	65
Other	1,987
Castings, iron and steel	8,722
Forgings	12,761
Total	612,640

TABLE 46. Employees and Earnings in the Primary Iron and Steel Industry, by Provinces, 1952 and 1953

Province	Number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
1952						\$	\$	\$	
Nova Scotia	398	61	4,860	—	5,319	1,826,850	13,975,494	15,802,344	
Quebec	512	120	3,868	3	4,503	2,369,240	12,989,418	15,358,658	
Ontario	2,240	811	20,103	325	23,479	14,027,616	73,633,602	87,661,218	
Manitoba	91	22	945	—	1,058	444,365	2,941,001	3,385,366	
Alberta	}	67	568	2	642	303,970	1,875,734	2,179,704	
British Columbia									
Canada	3,308	1,019	30,344	330	35,001	18,972,041	105,415,249	124,387,290	
1953						\$	\$	\$	
Nova Scotia	397	56	4,463	—	4,916	1,849,961	13,831,989	15,681,950	
Quebec	498	119	3,538	2	4,157	2,467,383	12,334,139	14,801,522	
Ontario	2,287	911	20,980	205	24,383	15,207,276	78,693,532	93,900,308	
Manitoba	85	22	873	—	980	466,893	2,898,491	3,365,384	
Alberta	}	67	446	3	520	245,988	1,713,904	1,959,892	
British Columbia									
Canada	3,334	1,112	30,300	210	34,956	20,237,501	109,472,055	129,709,556	

TABLE 47. Fuel and Electricity Used¹ in the Primary Iron and Steel Industry, 1948 and 1953

Kind	1948			1953	
	Quantity	Cost at works	Quantity	Cost at works	
Bituminous coal:		\$		\$	
Canadian	ton	205,450	1,380,252	128,852	1,040,291
Imported	ton	63,331	617,693	63,178	611,242
Sub-bituminous coal (from Alberta mines only)	ton	131	1,646	229	4,000
Anthracite coal	ton	26,541	253,575	20,650	249,035
Lignite coal	ton	—	—	132	827
Coke	ton	52,469	233,627	38,409	197,596
Gasoline	Imp. gal.	286,385	94,419	430,944	136,893
Kerosene	Imp. gal.	48,994	6,553	24,421	6,038
Fuel oil	Imp. gal.	76,570,221	9,085,828	107,432,815	10,034,936
Wood	cord	722	2,826	172	1,787
Gas:					
Liquefied petroleum gases	M cu.ft.	³		10,495	3,676
Other manufactured gas ²	M cu.ft.	102,152,955	5,884,460	28,300,196	6,950,593
Natural	M cu.ft.	9,405	5,276	255,331	272,116
Other fuel	—	—	240,564	—	—
Electricity purchased	k.w.h.	1,729,908,331	6,304,420	1,759,908,358	10,063,293
Total	—	—	24,111,139	—	29,572,323
Electricity generated for own use	k.w.h.	104,405,798	—	123,577,840	—

1. Details shown in Tables 47 and 48 are collected only every five years; accordingly, data for intervening years are not available.

2. Includes blast furnace gas and coke-oven gas in 1948, but only coke-oven gas in 1953.

3. Not available separately.

TABLE 48. Power Equipment¹, 1948 and 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1948				
Steam engines and steam turbines	107	67,534	32	5,996
Diesel engines	14	2,773	2	227
Gasoline, gas and oil engines	22	20,068	6	2,305
Hydraulic turbines or water-wheels	2	1,000	—	—
Total primary	145	91,375	40	8,528
Electric motors operated by purchased power	10,382	270,035	904	11,098
Total	10,527	361,410	944	19,626
Electric motors operated by power generated by above primary units	1,427	53,040	—	—
Stationary power boilers	104	46,481	5	905
Motor-generator sets	188	130,100 k.v.a.	9	1,222 k.v.a.
1953				
Steam engines and steam turbines	188	151,969	19	14,048
Diesel engines	29	10,506	—	—
Gasoline, gas and oil engines	16	6,325	10	15,930
Hydraulic turbines or water-wheels	—	—	—	—
Total primary	233	168,800	29	29,978
Electric motors operated by purchased power	15,487	363,606	1,304	15,743
Total	15,720	532,406	1,333	45,721
Electric motors operated by power generated by above primary units	1,524	72,118	8	31
Stationary power boilers	66	76,901	—	—
Motor-generator sets	396	141,500 k.v.a.	9	1,245 k.v.a.

1. See footnote to Table 47.

TABLE 49. Capital and Repair Expenditures in the Primary Iron and Steel Industry, 1949-1953

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
\$'000							
1949	2,490	9,313	11,803	5,476	15,398	20,874	32,677
1950 ..	1,704	5,225	6,929	5,914	17,976	23,890	30,819
1951	28,945	21,366	50,311	5,501	27,764	33,265	83,576
1952	20,517	52,381	72,898	6,308	31,428	37,736	110,634
1953 ¹	12,589	36,428	49,017	8,361	34,163	42,524	91,541

1. Preliminary.

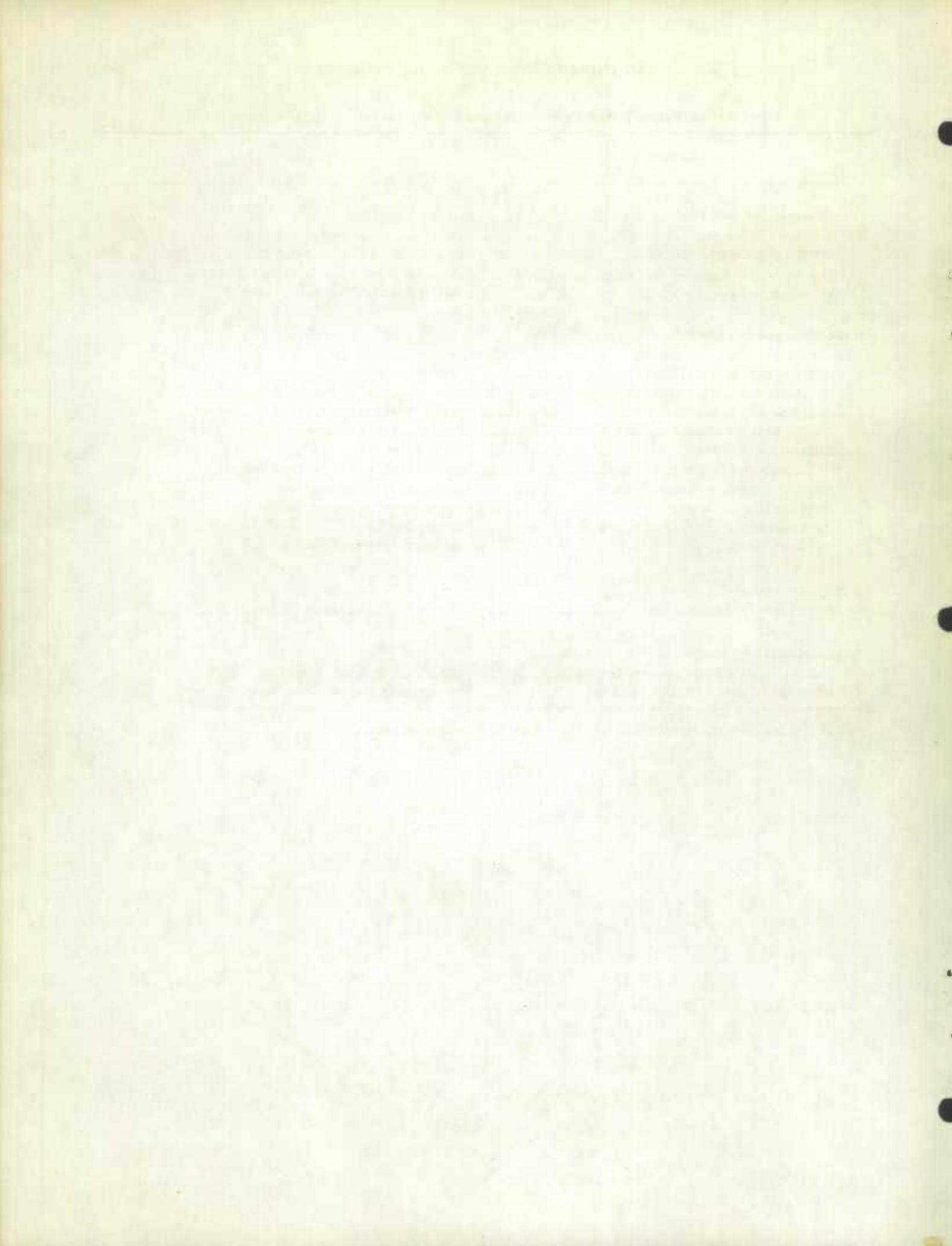
Directory of Firms in the Primary Iron and Steel Industry, 1953

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

Directory of Firms in the Primary Iron and Steel Industry, 1953 — 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
Manitoba Rolling Mill Company, Limited	Selkirk, Manitoba
Vancouver Rolling Mills Ltd.	Vancouver, British Columbia
(e) Cold-rolled Steel	
Stanley Steel Company, Limited	57 Gerrard St., Hamilton, Ontario
(f) Cold-drawn Steel	
Canadian Drawn Steel Company, Limited	Gerrard St., Hamilton, Ontario
Union Drawn Steel Company, Limited	Burlington St. E., Hamilton, Ontario

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





STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010654972