GOVERNMENT OF CANADA

THE PRIMARY IRON AND STEEL INDUSTRY

1951

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THE PRIMARY IRON AND STEEL INDUSTRY

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries 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, by Provinces
- Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢.
- Section 2. Principal Statistics of Individual Industries, 75¢.
- Section 3. Principal Statistics by 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

1951

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-five firms were included in this industry in 1951, and reports were received from 57 different plants or departments, including 5 blast furnace departments, 3 ferro-alloy plants, 35 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 36.4 per cent higher in value in 1951 than in 1950, the totals being $464,587,486 and $340,540,042 respectively. Twenty-four works in Ontario accounted for 77 per cent of the total for Canada, or $359,409,798; 13 plants in Quebec accounted for 10 per cent or $48,758,840 5 plants in Nova Scotia for 9 per cent or $39,512,061; while the remaining $16,906,787, or 4 per cent was accounted for by 4 plants in Manitoba, 2 in Alberta and 9 in British Columbia.

In 1951 a total of 33,390 people was employed in this industry, an increase of 14.9 per cent over the 1950 total of 29,051. Sixty-eight per cent of the employees, or 22,670, worked in plants in Ontario, 4,837 in Nova Scotia, 4,199 in Quebec, 1,000 in Manitoba and 687 in Alberta and British Columbia. Payments in salaries and wages during 1951 amounted to $108,561,802, an increase of 27.1 per cent over the previous year's total of $85,411,927. Salaries advanced to $16,744,000 from $12,868,749 and wages increased to $91,817,802 from $72,543,178.

Materials used in manufacturing processes cost $223,011,814 in 1951 compared with $159,282,919 in 1950, and the cost of fuel and electricity was $32,103,307 as against $26,714,750, an increased expenditure of 37 per cent for materials, fuel and power.

PIG IRON

Output of 2,552,893 net tons of pig iron in 1951 was 10.2 per cent more than the 2,317,121 tons reported for the previous year. Production of basic iron amounted to 1,988,942 tons or 78 per cent of the total; foundry iron amounted to 306,264 tons, and malleable iron to 257,687 tons.

Producers' sales of pig iron totalled 726,357 tons at $36,891,960 compared with 636,558 tons at $27,484,529 in 1950.

Charges to iron blast furnaces during the year included 3,168,581 tons of imported iron ore, 1,476,440 tons of Canadian ore, 2,377,968 tons of coke and 954,546 tons of limestone.

Imports of pig iron during the calendar year decreased to 22,126 tons from the 29,628 tons in 1950, and exports increased to 223,635 tons from 194,528 tons.

Producers' stocks of pig iron at the end of 1951 totalled 81,220 tons compared with 85,372 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 2,355,536 tons in 1951 or about 10 per cent more than in 1950 when the apparent domestic supply was 2,138,080 tons.

Producers of pig iron in Canada had 14 blast furnaces at the end of 1951 which could produce 2.88 million net tons if operated at rated capacity. Actual production of 2,552,893 net tons in 1951 showed an operating rate of about 89 per cent. Fourteen furnaces were in blast during the year.

FERRO-ALLOYS

Ferro-alloys were made in 1951 by 9 different concerns, 5 of which recovered ferrosilicon as a by-product in the manufacture of abrasives. Output of ferro-alloys in 1951 amounted to 266,252 tons, an increase of 47 per cent over the 180,499 tons reported in 1950.

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

STEEL INGOTS AND CASTINGS

Steel production increased 5 per cent to 3,568,720 tons in 1951 from 3,383,575 tons in 1950, the output of steel ingots going to 3,447,132 tons from 3,298,071 tons, while castings production rose to 121,588 tons from 85,504 tons. Factory sales of ingots and castings totalled 295,279 tons at $52,227,452.

Thirty-five steel plants were in operation during the year. At the end of 1951 these plants had 126 furnaces, including 44 basic open-hearth furnaces with an annual rated capacity of 3,000,500 tons, 79 electric furnaces rated at 985,900 tons and 3 converters at 9,600 tons. There were 10 makers of steel ingots with capacity of 3,677,800 net tons per annum. The total annual steel capacity of all plants, including ingots and castings, was 3,996,000 tons at the year-end.

Operating steel furnaces in 1951 used 1,837,731 net tons of pig iron, 2,106,714 tons of scrap iron or steel, 304,403 tons of iron ore, 257,635 tons of limestone, 151,147 tons of dolomite, 93,426 tons of lime, 93,000 tons of silica sand, 15,870 tons of magnesite, and 49,513 tons of ferro-alloys.

ROLLED AND DRAWN STEEL

In 1951 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 advanced 32 per cent to $323,615,728 from $244,830,701 in 1950. The main items sold during the year under review were 587,160 tons of hot rolled bars at $73,105,972; 183,994 tons of plates at $17,977,171; 340,271 tons of rails and rail fastenings at $28,383,397; 447,334 tons of semi-finished forms, such as blooms, billets, etc., at $33,513,655; 223,281 tons of structural shapes at $21,612,670; 122,514 tons of wire rods at $9,695,144; 47,578 tons of cold-drawn bars at $12,402,690; and other rolled products including hot and cold-rolled sheets and strip, skelp, sheet piling, tin plate, galvanized sheets, etc., totalling 846,906 tons at $119,256,404.

TABLE 1. Provincial Distribution of Active Plants in the Primary Iron and Steel Industry, 1951

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	12	–	–	10	24	2	1
Ontario	16	4	11	10	71	8	2
Manitoba	3	–	–	3	5	1	–
Alberta	2	–	–	2	2	–	–
British Columbia	9	–	–	8	12	1	–
Canada	45[2]	5	14	35	126	14	3

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, 1947-1951

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	Net value of production
			$	$	$	$	$
1947	58	26,933	60,285,368	18,863,396	104,532,334	216,275,618	92,879,888
1948	55	29,367	77,357,760	24,111,139	132,779,063	282,167,150	125,276,948
1949	55	29,097	82,958,229	22,352,965	147,229,391	305,734,984	136,152,628
1950	55	29,051	85,411,927	26,714,750	159,282,919	340,540,042	154,542,373
1951	57	33,393	108,561,802	32,103,307	223,011,814	464,587,486	209,472,365
Per cent change, 1951 from 1950	—	+ 14.9	+ 27.1	+ 20.2	+ 40.0	+ 36.4	+ 35.5

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, 1950 and 1951

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
			$	$	$	$
1950						
Nova Scotia	5	4,535	12,254,491	3,923,681	19,869,223	36,326,915
Quebec	12	3,482	9,543,763	2,252,871	11,222,417	32,208,247
Ontario	23	19,618	59,963,169	19,873,979	123,458,423	259,659,679
Manitoba	4	898	2,206,328	423,283	2,192,089	7,070,803
Alberta	2	518	1,444,176	240,936	2,540,767	5,274,398
British Columbia	9					
Canada	**55**	**29,051**	**85,411,927**	**26,714,750**	**159,282,919**	**340,540,042**
1951						
Nova Scotia	5	4,837	13,254,893	4,316,009	20,341,735	39,512,061
Quebec	13	4,199	12,823,031	3,185,940	17,811,850	48,758,840
Ontario	24	22,670	77,427,879	23,778,906	178,221,367	359,409,798
Manitoba	4	1,000	2,792,450	495,772	2,672,887	8,732,057
Alberta	2	687	2,263,549	326,680	3,963,975	8,174,730
British Columbia	9					
Canada	**57**	**33,393**	**108,561,802**	**32,103,307**	**223,011,814**	**464,587,486**

(a) PIG IRON

TABLE 4. Production of Pig Iron and Sales by Producers, 1950 and 1951

Grade	Delivered in molten condition	Machine cast	Total tonnage made	Sales	
				Quantity	Income from sales
	net tons				$
1950					
Basic	1,640,523	122,917	1,763,440	83,150	3,316,925
Foundry	—	238,263	238,263	241,925	10,373,559
Malleable	—	315,418	315,418	311,483	13,794,045
Total	**1,640,523**	**676,598**	**2,317,121**	**636,558**	**27,484,529**
1951					
Basic	1,767,573	221,369	1,988,942	168,780	8,403,602
Foundry	—	306,264	306,264	299,978	14,778,233
Malleable	—	257,687	257,687	257,599	13,710,125
Total	**1,767,573**	**785,320**	**2,552,893**	**726,357**	**36,891,960**

PRODUCTION OF IRON AND STEEL IN CANADA, 1942—1951
(THOUSAND NET TONS)

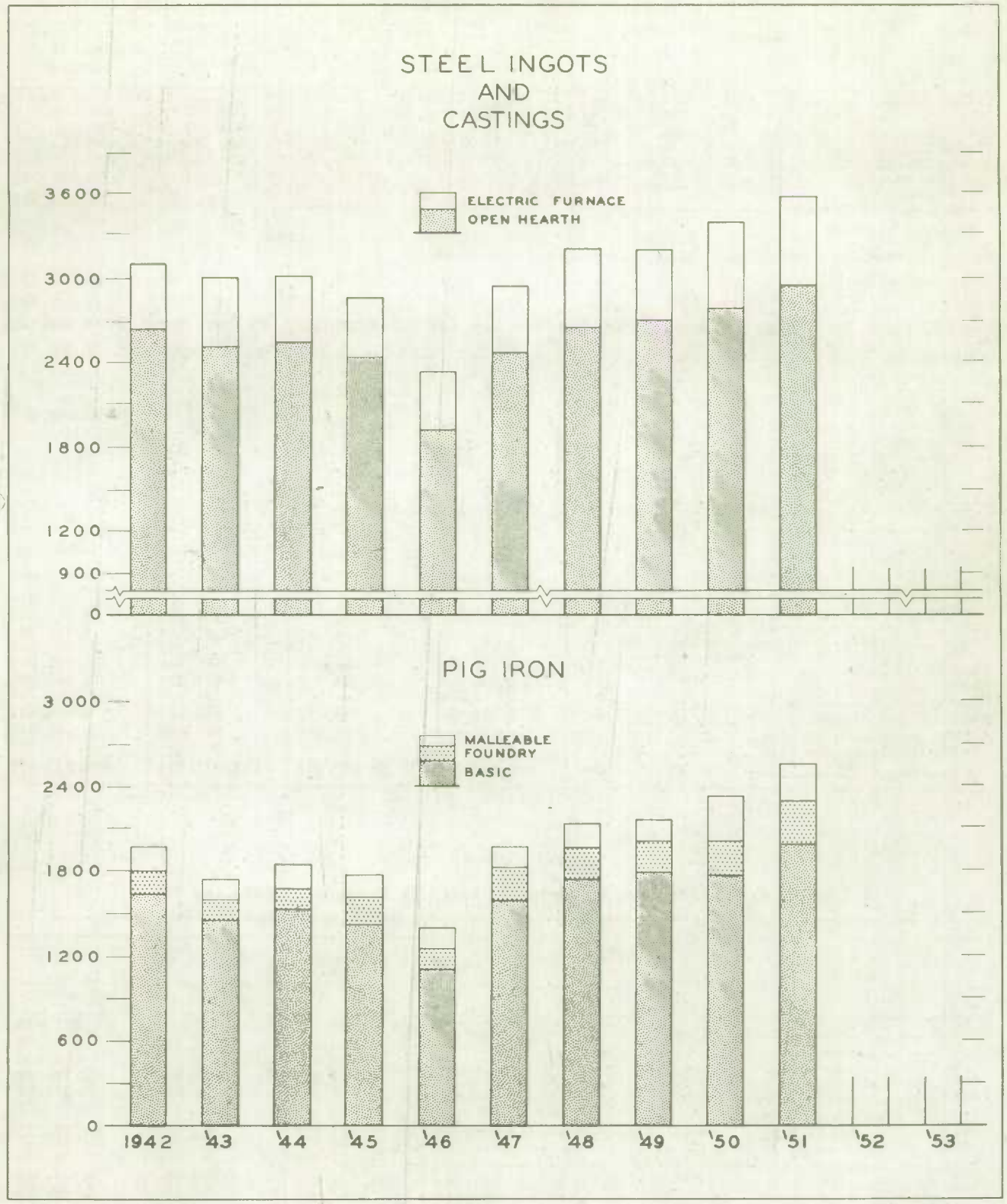

TABLE 5. Materials Charged to Iron Blast Furnaces, 1950 and 1951

Material	1950		1951	
	Quantity	Cost at furnace	Quantity	Cost at furnace
	net tons	$	net tons	$
Iron ore:				
Canadian (crude)	891,139	5,115,744	832,346	5,252,913
Imported (crude)	2,774,466	18,488,962	3,168,012	22,508,063
Canadian (beneficiated)	507,573	3,841,290	644,094	5,244,355
Imported (beneficiated)	335	1,636	569	4,297
Mill cinder, roll scale, flue dust, etc	287,032	1,084,220	345,497	1,525,133
Scrap (net charge)	42,510	733,954	65,390	1,490,248
Limestone	865,492	1,498,589	954,546	1,657,671
Dolomite	148,798	224,626	171,757	264,442
Coke	2,139,615	27,826,688	2,377,968	32,309,665
Other materials	–	296,336	–	307,170
Total	–	**59,112,045**	–	**70,563,957**

TABLE 6. Production[1] of Pig Iron, by Grades, 1942-1951

Year	Basic	Foundry	Malleable	Total
	net tons			
1942	1,646,001	159,724	169,289	1,975,014
1943	1,456,549	148,653	153,067	1,758,269
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

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

TABLE 7. Production[1] of Pig Iron, by Provinces, 1942-1951

Year	Nova Scotia	Ontario	Total
	net tons		
1942	467,951	1,507,063	1,975,014
1943	345,722	1,412,547	1,758,269
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[1]
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

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

TABLE 8. Production of Pig Iron, by Months 1950 and 1951

Month	1950			1951		
	For own use	For sale	Total	For own use	For sale	Total
	net tons					
January	141,985	48,447	190,432	143,170	53,855	197,025
February	121,881	35,319	157,200	149,515	43,712	193,227
March	142,219	37,230	179,449	146,942	73,661	220,603
April	139,607	48,536	188,143	156,304	54,808	211,112
May	143,508	52,385	195,893	161,849	57,140	218,989
June	141,689	56,773	198,462	148,822	64,362	213,184
July	147,683	46,333	194,016	151,740	58,523	210,263
August	148,448	53,382	201,830	147,435	55,751	203,186
September	141,483	57,932	199,415	151,635	60,850	212,485
October	137,405	68,406	205,811	152,270	72,241	224,511
November	128,713	79,588	208,301	157,329	66,138	223,467
December	145,942	52,227	198,169	159,525	65,316	224,841
Total	**1,680,563**	**636,558**	**2,317,121**	**1,826,536**	**726,357**	**2,552,893**

TABLE 9. Sales of Pig Iron by the Producers, 1942-1951

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
		$			$
1942	387,997	8,366,936	1947	458,300	14,172,493
1943	387,109	8,328,322	1948	454,341	17,165,056
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

TABLE 10. Iron Ore, Fuel and Flux Charged to Iron Blast Furnaces, 1942-1951

Year	Iron ore	Mill cinder, scale, etc.	Iron and steel scrap	Coke	Limestone	Dolomite
	net tons					
1942	3,612,692	177,343	64,624	1,795,875	860,793	Not available
1943	3,258,451	125,477	43,032	1,646,191	785,938	32,064
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

TABLE 11. Imports into Canada and Exports of Pig Iron, 1942-1951

Year	Imports		Exports	
	Net tons	$	Net tons	$
1942	1,536	42,718	427	12,175
1943	7,118	173,598	438	11,163
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

TABLE 12. Stocks of Pig Iron Held at Year-End by Producers in Canada, 1942-1951

Year	Net tons	Year	Net tons
1942	87,955	1947	44,976
1943	28,230	1948	31,391
1944	49,615	1949	71,231
1945	25,193	1950	85,372
1946	52,112	1951	81,220

TABLE 13. Apparent Supply of Pig Iron in Canada, 1942-1951

Year	Production	Add imports	Deduct exports	Add or deduct changes in producers' stocks[1]	Apparent supply[2]
	net tons				
1942	1,975,014	1,536	427	- 60,906	1,915,217
1943	1,758,269	7,118	438	+ 59,725	1,824,674
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

1. In this column the + indicates a decline in stocks or that this tonnage was released for consumption; the - sign indicates an increase in stocks or that this amount was withheld from consumption.
2. No allowance made for changes in consumers' stocks of which there is no record.

TABLE 14. Consumption of Pig Iron in Canada, by Industries and by Provinces, 1948-1951 (as reported by consumers)

	1948	1949	1950	1951
	net tons			
(a) By Industries				
Steel ingots and castings	1,696,128	1,736,824	1,677,504	1,837,731
Iron castings	248,228	210,401	236,909	258,597
Boilers, tanks and platework	44,046	33,126	33,882	36,262
Agricultural implements	27,975	29,004	26,699	24,702
Machinery	24,699	22,325	24,313	32,925
Automobiles	7,581	10,439	6,289	4,925
Automobile parts	8,956	16,130	24,331	24,322
Railway rolling stock	32,094	18,561	15,001	27,874
Brass and copper products	3,433	3,408	4,988	3,940
Shipbuilding	870	595	676	781
Hardware and tools	2,600	3,198	2,133	2,533
Miscellaneous iron and steel	497	297	923	17,497
Heating and cooking apparatus	26,563	23,942	19,851	17,542
Electrical apparatus and supplies	5,148	7,443	8,535	9,100
Bridge and structural steel	1	1	1,143	1,078
Total	**2,128,818**	**2,115,693**	**2,083,177**	**2,299,809**
(b) By Provinces				
Prince Edward Island	20	20	30	22
Nova Scotia	430,258	467,515	476,944	485,580
New Brunswick	4,465	2,919	3,794	3,525
Quebec	105,588	78,279	90,886	116,000
Ontario	1,572,375	1,556,380	1,502,733	1,682,897
Manitoba	11,991	8,392	6,753	9,550
Saskatchewan	33	20	15	22
Alberta	248	203	177	205
British Columbia	3,840	1,965	1,845	2,008
Canada	**2,128,818**	**2,115,693**	**2,083,177**	**2,299,809**

(1) Not available separately.

TABLE 15. Blast Furnaces in Canada, 1949-1951

Name of company	Location of plant	Number of stacks	Total annual capacity	Number of days in blast		
				1949	1950	1951
Dominion Foundries & Steel Ltd	Hamilton, Ont.	1	280,000	—	—	128
	Total	**1**	**280,000**	—	—	—
Dominion Iron & Steel Limited	Sydney, Nova Scotia	1	225,000	365	365	365
		1	235,000	365	365	365
		1	135,000	225	365	349
	Total	**3**	**595,000**	—	—	—
Canadian Furnace Company, Limited	Port Colborne, Ont.	1	170,000	329	322	353
		1	53,000	—	72	289
	Total	**2**	**223,000**	—	—	—
The Steel Company of Canada, Limited	Hamilton, Ontario	1	125,000	365	364	364
		1	266,000	363	365	365
		1	354,000	365	365	365
	Total	**3**	**745,000**	—	—	—
Algoma Steel Corporation, Limited	Sault Ste. Marie, Ont.	1	120,000	236	222	357
		1	120,000	302	301	356
		1	246,000	364	365	364
		1	189,000	346	334	331
		1	360,000	310	362	362
	Total	**5**	**1,035,000**	—	—	—
Total for Canada		**14**	**2,878,000**	—	—	—

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

Country	1949	1950	1951
	000's of net tons		
United States	54,917	66,400	72,449
Canada	2,334	2,458	2,754
Mexico	395	260	238
Brazil	550	776	817
United Kingdom	10,638	10,789	10,829
Belgium	4,128	4,075	5,346
Luxembourg	2,615	2,755	3,480
France	9,213	8,565	9,639
Netherlands	479	501	578
Hungary	474	551	661
Germany[1]	7,870	10,442	11,791
Saar	1,743	1,864	2,611
Austria	923	973	1,155
Czechoslovakia	2,077	2,262	2,381
Poland	1,505	1,640	1,738
Yugoslavia	209	234	278
Romania	303	369	386
Russia	18,400	21,800	23,000
Italy	490	628	1,154
Spain	693	739	725
Sweden	927	862	938
Japan	1,767	2,534	3,514
Turkey	124	122	170
India	1,712	1,885	2,028
Union of South Africa	781	816	880
Australia	1,152	1,473	1,474
Total	**126,421**	**145,774**	**161,014**

1. American, British and French zones.

(b) FERRO-ALLOYS

TABLE 17. Production of Ferro-Alloys[1], 1942-1951

Year	Net tons	Year	Net tons
1942	209,017	1947	227,123
1943	197,094	1948	232,734
1944	171,323	1949	202,092
1945	171,642	1950	180,499
1946	139,392	1951	266,252

1. Figures in above table up to 1949 include production of silvery pig iron; for 1950 and 1951, however, tonnages of the latter are included with pig iron.

TABLE 18. Producers of Ferro-Alloys, 1951

Name of company	Plant location	Kind of ferro-alloy made
Simonds Canada Abrasive Co., Limited	Arvida, Quebec	Ferrosilicon (by-product)
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
Electro Metallurgical Company of Canada	Welland, Ontario	Ferrosilicon, ferrochrome, ferromanganese, silico-manganese, spiegeleisen, silico-spiegeleisen
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

(c) STEEL INGOTS AND DIRECT STEEL CASTINGS

TABLE 19. Production of Steel Ingots and Steel Castings, and Sales by the Producers, 1950 and 1951

	1950			1951		
	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	$	net tons	net tons	$
Steel Ingots:						
Basic open hearth	2,771,842	156,464	8,237,739	2,917,005	125,981	7,558,078
Electric	526,229	77,308	4,006,235	530,127	53,079	3,692,520
Total steel ingots	**3,298,071**	**233,772**	**12,243,974**	**3,447,132**	**179,060**	**11,250,598**
Steel castings:						
Basic open hearth	22,488	20,171	5,428,478	30,758	29,064	8,816,072
Converter	232	232	86,925	282	282	114,871
Electric	62,784	59,605	20,893,236	90,548	86,873	32,045,911
Total steel castings	**85,504**	**80,008**	**26,408,639**	**121,588**	**116,219**	**40,976,854**
Total steel ingots and castings	**3,383,575**	**313,780**	**38,652,613**	**3,568,720**	**295,279**	**52,227,452**
Any other products	—	—	673,553	—	—	774,563
Total all products	—	—	**39,326,166**	—	—	**53,002,015**
Alloy steel included in above:						
Ingots	196,239	76	6,077	211,137	622	93,581
Castings	16,498	16,108	6,878,670	19,985	19,077	9,138,537
Total	**212,737**	**16,184**	**6,884,747**	**231,122**	**19,699**	**9,232,118**

TABLE 20. Materials Used in Steel Furnaces, 1950 and 1951

Material	1950		1951	
	Quantity	Cost of purchased materials	Quantity	Cost of purchased materials
	net tons	$	net tons	$
Pig iron:				
Own make	1,663,780	—	1,822,088	—
Purchased	13,724	632,979	15,643	862,811
Scrap iron or steel:				
Own make	989,523	—	985,647	—
Purchased	1,005,803	25,779,873	1,121,067	35,974,173
Spiegeleisen	749	58,339	667	55,936
Silicospiegeleisen	371	37,398	391	40,996
Ferromanganese:				
High carbon	25,298	3,793,494	25,444	4,352,529
Medium carbon	230	78,733	354	122,089
Low carbon	372	124,989	1,078	312,304
Silicomanganese	5,671	960,408	6,427	1,247,409
Sil-x	334	54,206	145	28,185
Ferrosilicon:				
15%	315	21,344	101	7,597
25%	—	—	—	—
50%	6,890	702,369	7,901	895,601
75%	15	2,299	24	5,690
85-90%	285	65,229	296	64,533
Ferrochrome (including chrom-x):				
High carbon	2,633	555,301	3,168	786,933
Low carbon	956	388,736	1,932	855,340
Ferromolybdenum	54	92,094	103	190,077
Ferrophosphorus	286	25,714	195	17,366
Ferroselenium	5	17,076	7	37,061
Ferrotitanium	143	30,664	164	50,641
Ferrotungsten	117	302,872	364	2,726,887
Ferrovanadium	46	117,042	121	302,006
Ferrozirconium	15	2,998	23	4,473
Calcium silicon	127	47,542	172	69,308
Calcium manganese silicon	257	108,742	355	149,839
Other ferro-alloys	3	5,067	608	176,759
Aluminum ingot and shot	967	370,302	1,155	633,684
Copper ingots, cakes, shot, etc	259	118,763	402	219,488
Nickel	935	883,529	1,621	1,778,803
Other metals	—	106,257	—	51,383
Ore, iron	244,512	2,897,110	304,403	4,130,366
Ore, manganese	70	4,243	74	4,892
Ore, chrome	567	30,957	940	48,308
Ore, tungsten	84	116,411	56	292,277
Bentonite	3,168	99,539	4,349	141,242
Coal:				
Anthracite	18	295	27	395
Bituminous	142	2,217	20	283
Coke	7,563	117,422	4,782	75,737
Charcoal	42	2,673	175	6,574
Dolomite:				
Crude	106,809	386,943	118,295	428,242
Calcined	29,857	648,830	32,852	755,989
Fluorspar	21,800	737,251	23,374	835,100
Ganister	5,628	21,197	7,613	28,488
Graphite	694	75,862	736	82,830
Lime	75,626	730,605	93,426	1,015,836
Limestone	265,941	523,968	257,635	521,330
Magnesite	14,315	711,658	15,870	811,586
Electrodes	—	1,568,828	—	1,877,868
Silica sand:				
For moulds	64,717	516,168	92,687	783,301
For sand blasting	841	29,312	313	17,215
Other foundry sands	15,438	49,185	14,984	91,204
Sulphur	75	5,440	75	6,642
Firebrick, fireclay and other refractories	—	3,696,455	—	4,561,425
Calcium molybdate	35	39,365	21	21,302
Molybdenum trioxide (molybdic oxide) briquettes	349	379,537	430	536,422
All other materials	—	3,404,551	—	3,522,872
Total value of metals, ores and other materials used	—	**52,280,381**	—	**72,617,627**

TABLE 21. Production of Steel Ingots and Steel Castings, by Grades, 1942-1951

Year	Steel ingots		Steel castings			Total steel ingots and castings
	Open hearth	Electric	Open hearth	Converter	Electric	
	net tons					
1942	2,623,853	335,053	26,627	6,515	117,803	3,109,851
1943	2,484,544	362,192	28,895	4,003	124,490	3,004,124
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

TABLE 22. Production of Steel Ingots and Steel Castings, by Months, 1947-1951

Month	1947	1948	1949	1950	1951
	net tons				
January	249,798	256,726	284,707	289,949	309,653
February	229,222	239,646	259,271	258,123	281,380
March	269,732	286,026	298,461	294,303	314,826
April	252,156	264,266	269,968	279,320	312,005
May	244,076	289,567	293,179	290,906	313,312
June	238,297	259,365	270,455	276,423	293,515
July	232,341	244,872	238,830	264,190	274,602
August	233,754	263,054	248,749	281,312	286,804
September	234,188	257,865	240,748	274,947	268,230
October	256,461	281,866	258,891	293,928	309,414
November	255,372	277,978	259,722	289,488	307,075
December	250,555	279,249	267,396	290,686	297,904
Total	**2,945,952**	**3,200,480**	**3,190,377**	**3,383,575**	**3,568,720**

TABLE 23. Annual Production of Steel Ingots and Steel Castings, by Provinces, 1942-1951

Year	Nova Scotia	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
	net tons						
1942	637,993	180,637	2,207,208	55,067	22,264	6,682	3,109,851
1943	576,578	157,662	2,182,802	55,555	22,217	9,310	3,004,124
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	425,863	63,763	1,781,701	52,064	430	3,464	2,327,285
1947	563,377	67,540	2,253,854	55,367	615	5,199	2,945,952
1948	626,604	73,681	2,436,050	59,084	397	4,664	3,200,480
1949	672,807	73,092	2,365,201	60,079	373	18,825	3,190,377
1950	685,480	71,531	2,526,770	69,467	723	29,604	3,383,575
1951	709,451	120,310	2,619,072	78,666	1,037	40,184	3,568,720

TABLE 24. Sales of Steel Ingots and Steel Castings by the Producers, 1942-1951

Year	Tonnage sold	Income from sales	Year	Tonnage sold	Income from sales
	net tons	$		net tons	$
1942	286,007	38,014,454	1947	152,113	25,260,293
1943	151,924	30,057,984	1948	176,314	34,268,313
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

TABLE 25. Production of Alloy Steel Ingots and Castings, 1942-1951

Year	Ingots	Castings	Total
	net tons		
1942	374,457	25,879	400,336
1943	393,491	19,992	413,483
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

TABLE 26. Metal, Ore and Flux Charged to Steel Furnaces, 1942-1951

Year	Pig iron	Ferro-manganese alloys[1]	Other ferro-alloys	Scrap iron and steel	Iron ore	Limestone	Dolomite	Fluorspar
	net tons							
1942	1,615,396	30,605	20,128	1,826,911	198,890	243,608	101,641	20,133
1943	1,518,548	29,121	10,142	1,751,779	171,040	242,032	89,056	20,790
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	30,161	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	1,637,731	34,361	15,152	2,106,714	304,403	257,635	151,147	23,374

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

TABLE 27. Steel Furnaces in Canada, December 31, 1951

	Type	Number of units	Size	Total annual capacity
			net tons	net tons
Nova Scotia:				
Dominion Iron & Steel Limited, Sydney	O.H.	5	56	240,000
	O.H.	2	175	190,000
	O.H.	3	125	255,000
	Elec.	1	11	28,000
Total	—	**11**	—	**713,000**
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
	Elec.	3	5	39,000
Total	—	**5**	—	**159,000**
Dominion Brake Shoe Company, Ltd., Joliette	Elec.	1	1½	4,000
	Elec.	1	2	8,000
Total	—	**2**	—	**12,000**
La Compagnie F.X. Drolet Ltd., Quebec	Conv.	1	1	300
Lynn MacLeod Metallurgy Ltd., Thetford Mines	Elec.	1	1½	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	31,600
	Elec.	1	8	17,300
	Elec.	1	4	11,500
Total	—	**3**	—	**60,400**
Sorel Steel Foundries Ltd., Sorel	Elec.	1	3	5,900
Ontario:				
Algoma Steel Corp. Ltd., Sault Ste. Marie	O.H.	8	84	500,000
	O.H.	4	131	366,000
Total	—	**12**	—	**866,000**
Atlas Steels Limited, Welland	Elec.	1	6	7,200
	Elec.	1	10	12,000
	Elec.	2	25	64,000
	Elec.	2	45	86,400
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	55	108,900
	O.H.	1	50	49,450
	O.H.	1	45	44,550
	Elec.	2	10	26,400
	Elec.	2	50	140,000
	Elec.	1	2½	9,000
Total	—	**9**	—	**378,300**
Fahralloy Canada Ltd., Orillia	Elec.	1	½	1,500
	Elec.	1	1½	2,300
	Elec.	1	2	3,100
Total	—	**3**	—	**6,900**

TABLE 27. Steel Furnaces in Canada, December 31, 1951 – Concluded

	Type	Number of units	Size	Total annual capacity
			net tons	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**
William Kennedy and Sons Ltd., Owen Sound	Conv.	1	2	4,800
	Elec.	1	1¼	2,400
	Elec.	1	4	9,000
Total	–	**3**	–	**16,200**
Steel Company of Canada, Hamilton	O.H.	1	45	43,500
	O.H.	3	55	147,500
	O.H.	4	100	338,000
	O.H.	5	180	626,000
	Elec.	1	70	91,500
Total	–	**14**	–	**1,246,500**
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	40,000
	Elec.	1	6	20,000
Total	–	**3**	–	**60,000**
Manitoba Steel Foundries Ltd., Selkirk	Elec.	1	5	4,000
Vulcan Iron Works Ltd., Winnipeg	Elec.	1	3	2,700
Alberta:				
Riverside Iron 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	1,900
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	½	1,000
	Elec.	1	1½	2,600
Total	–	**2**	–	**3,600**
Vancouver Engineering 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	12½	35,000
Victoria Machinery Depot Co. Ltd., Victoria	Elec.	1	1¼	625
Canadian Sumner Iron Works Ltd., Vancouver, B.C.	Elec.	1	1	600

TABLE 28. Summary of Steel Furnace Capacity, December 31, 1951

	Number of furnaces	Total annual capacity
		net tons
Basic open hearth	44	3,000,500
Electric	79	985,900
Converter	3	9,600
Total	**126**	**3,996,000**
Steel ingots:		
Basic open hearth	—	2,948,900
Electric	—	728,900
Total	—	**3,677,800**
Steel castings	—	318,200
Total ingots and castings	—	**3,996,000**

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

Province	Total annual capacity
	net tons
Nova Scotia	716,000
Quebec	325,500
Ontario	2,820,875
Manitoba	66,700
Alberta	2,500
British Columbia	64,425
Canada	**3,996,000**

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

Country	1949	1950	1951
	000's of net tons		
United States	77,978	96,836	105,200
Canada	3,154	3,343	3,508
Mexico	380	236	277
Brazil	671	833	915
United Kingdom	17,419	18,248	17,515
Belgium	4,239	4,148	5,612
Luxembourg	2,506	2,702	3,392
Hungary	882	1,127	1,360
France	10,055	9,536	10,838
Italy	2,265	2,562	3,360
Russia	22,000	27,300	31,300
Germany[1]	10,093	13,361	14,888
Saar	1,940	2,092	2,869
Austria	920	1,040	1,133
Czechoslovakia	3,045	3,319	3,651
Poland	2,540	2,767	3,078
Spain	793	901	895
Sweden	1,497	1,606	1,681
Japan	3,430	5,343	7,013
Turkey	110	100	154
India	1,518	1,610	1,662
Union of South Africa	701	898	1,065
Australia	1,267	1,596	1,593
Total	**169,403**	**201,533**	**222,958**

1. American, British and French zones.

(d) ROLLED AND DRAWN STEEL

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1950 and 1951

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
	net tons	net tons	$
1950			
Semi-finished rolled forms of iron and steel:			
Blooms, billets, slabs and sheet bars, except those for forging, and omitting hot strip mill sheet	2,332,336	259,898	16,955,029
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	114,548	103,007	8,349,232
Total semi-finished rolled forms	**2,446,884**	**362,905**	**25,304,261**
Rails and rail fastenings:			
Rails	286,672	286,753	21,305,231
Splice bars or fish plates	14,151	13,912	1,377,614
Tie plates, rail joints, frogs, etc	53,807	53,510	4,603,788
Total rails and rail fastenings	**354,630**	**354,175**	**27,286,633**
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	293,866	120,429	8,542,496
Structural steel shapes (including angles with a side of 3 inches and over, beams, channels, tees, etc., but excluding plates and bars):			
Over 35 pounds per yard	56,424	57,217	4,854,458
Up to and including 35 pounds per yard	67,856	65,726	5,660,822
Total structural steel shapes	**124,280**	**122,943**	**10,515,280**
Bars of iron or steel:			
Bars, hot rolled, of all grades and of all sections, including light angles with sections of less than 3 inches, but omitting all bars reported under the items immediately below	506,272	448,668	47,536,047
Bars for concrete reinforcing, including twisted and other deformed bars	102,640	103,338	9,158,278
Long angle splice bars, tie plate bars and all other long rail joint bars	76,022	—	—
Total hot rolled bars	**684,934**	**552,006**	**56,694,325**
Cold rolled and cold drawn bars	34,318	34,883	7,159,937
Plates, all kinds, including boiler and other sheared plates, nail, washer, spike tack and hinge plate	150,857	146,559	12,640,871
Sheets, hoops, bands and strips, including plain sheets, hot rolled strips, cold rolled strips, galvanized sheets,[1] tinplate, and blued plate	1,330,080	669,846	83,760,390
Total plates, sheets, hoops, bands and strips	**1,480,937**	**816,405**	**96,401,261**
Other rolled forms, including mine arches, sheet piling, etc	107,988	89,330	7,863,646
Miscellaneous products (not rolled) made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc	—	—	5,062,862
Total value of production	—	—	**244,830,701**

1. Includes the tonnages made in rolling mills only.

(d) ROLLED AND DRAWN STEEL

TABLE 31. Products Made in Iron and Steel Rolling and Drawing Mills, 1950 and 1951 – Concluded

Product	Total tonnage made	Factory sales	
		Tonnage sold in Canada or for export	Income from tonnage sold
	net tons	net tons	$
1951			
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	2,496,911	304,993	20,684,725
Blooms, billets, slabs and sheet bars for export	1,625	3,895	382,203
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	147,004	138,446	12,446,727
Total semi-finished rolled forms	**2,645,540**	**447,334**	**33,513,655**
Rails	257,244	254,911	19,910,580
Wire rods, No. 5 gauge to 47/64 inch in diameter (excluding straight lengths over 5/16 inch in diameter)	318,266	122,514	9,695,144
Structural steel shapes:			
Heavy, including beams, angles, channels, tees, zees, etc., having one leg or web of 3" and over, and at thickness of ⅛" and over	156,678	153,754	14,695,626
Light, including light shapes, angles, channels, etc., having a section smaller than that provided under previous item	71,414	69,527	6,917,044
Total structural steel shapes[2]	**228,092**	**223,281**	**21,612,670**
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	517,115	437,618	58,261,535
Bars for concrete reinforcing, including twisted and other deformed bars	154,024	149,542	14,844,437
Long angle splice bars, tie plate bars and all other long rail joint bars	91,866	–	–
Total hot rolled bars[2]	**763,005**	**587,160**	**73,105,972**
Plates, all kinds, including boiler and other sheared plates	184,707	183,994	17,977,171
Hot rolled sheets and strip, skelp, sheet piling and all other hot-rolled forms	959,594	294,589	31,699,513
B. COLD-ROLLED AND COATED PRODUCTS			
Bars, cold-rolled and cold-drawn	47,359	47,578	12,402,690
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	883,297	552,317	87,557,891
C. OTHER PRODUCTS			
Rail fastenings – Splice bars or fish plates	18,655	18,577	2,008,149
Tie plates	67,588	66,783	6,464,668
Other products made in rolling mills, including horseshoes, grinding balls, washers, forged axles, railway spikes, pressed spikes, etc	–	–	7,667,625
Total value of production	–	–	323,615,728

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, 1950 and 1951

Material	Companies own make	Purchased	
		Quantity	Cost at works
	net tons	net tons	$
1950			
Steel ingots	3,069,504	253,228	13,379,693
Steel blooms	12,820	–	–
Steel slabs	–	64,073	3,881,094
Steel billets	59,872	62,145	3,057,534
Steel bars	157	31,113	3,314,284
Rails, old	77	56,789	1,925,634
Axles, old	–	1,182	36,069
Scrap iron and steel, other	4,178	3	93
Tin	–	2,673	4,681,958
Zinc spelter	–	6,165	1,877,844
Ammonium chloride	–	389	68,520
Sulphuric acid, 100%	–	14,946	291,717
Silica sand	–	51	510
All other materials and supplies	–	–	3,394,980
Total	–	–	**35,909,930**
1951			
Steel ingots	3,267,845	273,171	17,567,750
Steel blooms	11,930	–	–
Steel slabs	–	189,315	13,157,242
Steel billets	109,784	99,530	5,275,791
Steel bars	–	39,249	4,646,997
Rails, old	–	58,705	2,402,462
Axles, old	–	1,151	41,488
Scrap iron and steel, other	5,230	–	–
Tin	–	2,840	8,269,889
Zinc spelter	–	6,464	2,342,940
Ammonium chloride	–	472	87,014
Sulphuric acid, 100%	–	19,425	376,281
Silica sand	–	509	4,322
All other materials and supplies	–	–	3,803,491
Total	–	–	**57,975,667**

TABLE 33. Net Production[1] in Canada of Hot Rolled Iron and Steel Products, 1947-1951

	1947	1948	1949	1950	1951
	net tons				
Blooms, billets and slabs	152,254	131,289	133,233	246,473	148,629
Rails	250,049	337,244	329,749	286,672	257,244
Rail fastenings	49,299	72,674	62,974	67,958	91,866
Wire rods	284,795	286,990	290,863	293,866	318,266
Structural shapes	180,226	175,031	168,099	124,280	228,092
Bars	559,746	572,075	594,703	608,912	671,139
Plates, sheets, hoops, bands and strips	634,157	694,145	793,623	905,911	1,058,751
Other hot rolled forms	55,710	83,758	146,249	107,988	85,550
Total	**2,166,236**	**2,353,206**	**2,519,493**	**2,642,060**	**2,859,537**

1. Inter-mill shipments have been excluded.

TABLE 34. Alloy Steel Products Made and Sold by Rolling Mills, 1950 and 1951

	1950		1951	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	net tons			
Bars	102,382	96,280	107,901	97,941
Other products, including plates, billets, forgings, sheet piling and wire rods, etc.	128,726	32,794	143,081	33,986
Total alloy steel	**231,108**	**129,074**	**250,982**	**131,927**

TABLE 35. Products Rolled from Old Rails, Axles, Etc., 1950 and 1951

	1950		1951	
	Tonnage made	Tonnage sold	Tonnage made	Tonnage sold
	net tons			
Rails	71	71	2,791	2,791
Bars	37,748	36,342	18,800	18,701
Other products	11,776	11,286	30,776	30,038
Total	**49,595**	**47,699**	**52,367**	**51,530**

TABLE 36. Pig Iron, Steel Ingots and Castings, and Semi-Finished Rolled Forms Shipped for Export by Producers, 1950 and 1951

	1950	1951
	net tons	
Pig iron	203,192	217,448
Steel ingots	—	—
Steel castings	6,115	7,922
Semi-finished rolled forms	163,710	3,895
Total	**373,017**	**229,265**

TABLE 37. Production and Factory Sales of Steel Rails, 1942-1951

Year	Tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons		$
1942	183,430	184,016	8,216,123
1943	263,920	261,483	12,309,676
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

TABLE 38. Production and Factory Sales of Finished Rail Fastenings, 1942-1951

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	$	net tons	net tons	$
1942	25,187	25,685	1,393,375	14,510	14,963	1,018,651
1943	27,214	27,057	1,486,184	14,376	14,554	1,002,902
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

TABLE 39. Production and Factory Sales of Wire Rods of Iron or Steel, 1942-1951

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	net tons	$
1942	256,457	105,475	4,347,189	1947	284,795	108,512	5,310,661
1943	235,583	88,848	3,621,772	1948	286,990	107,686	6,267,303
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

TABLE 40. Production and Factory Sales of Blooms, Billets and Slabs, 1942-1951

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	$	net tons	net tons	$
1942	1,608,969	162,171	5,650,983	226,541	178,897	10,692,911
1943	1,694,930	134,000	6,320,193	165,999	145,492	7,586,292
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	7,075,691
1948	2,201,281	321,748	16,983,227	112,338	102,906	7,539,117
1949	2,272,987	321,094	18,037,477	82,853	75,830	5,566,209
1950	2,332,336	259,898	16,955,029	114,548	103,007	8,349,232
1951	2,498,536	308,888	21,066,928	147,004	138,446	12,446,727

1. Shipments to other Canadian rolling mills are included.
2. Includes blanks or pierced billets for seamless tubes since 1947.

TABLE 41. Production and Factory Sales of Hot Rolled Bars[1] of All Kinds, 1942-1951

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	net tons	$
1942	592,016	474,312	37,442,850
1943	598,113	489,879	43,233,796
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

1. Included light structurals before 1951; therefore, data for 1951 not exactly comparable.

TABLE 42. Production of Structural Steel Shapes[1] of All Kinds, 1942-1951

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	net tons	$
1942	184,701	191,319	10,540,658
1943	146,965	151,674	8,802,273
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

1. Light structurals classified under hot rolled bars prior to 1951; therefore, data for 1951 not exactly comparable.

TABLE 43. Production and Factory Sales of Steel Plate, 1942-1951

Year	Total tonnage made	Factory sales	
		Tonnage sold	Income from sales
	net tons	net tons	$
1942	391,887	385,314	30,095,754
1943	395,298	391,202	27,919,833
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

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Pig Iron:				
Basic	United States	1,786	–	–
	Germany	1,471	–	–
Foundry	United States	56	–	–
	Germany	10,079	–	–
Malleable	United States	341	–	–
	United Kingdom	169	–	–
Special	United States	542	–	–
	Holland	110	–	–
Ingots	United States	89,615	156	–
	Germany	112	–	–
Billets, blooms, slabs and sheet bars	United States	550	592	–
	United Kingdom	–	10	–
	Germany	545	–	–
Tube rounds and tube billets	United States	4,096	1	3.5
Bars and sections:				
Hot rolled, n.o.p.	United States	48,666	3,882	271.6
	United Kingdom	10,636	887	60.5
	Belgium	32,126	–	–
	France	18,324	–	–
	Japan	1,520	–	–
	Germany	14,899	5	–
	Sweden	43	10	–
	Austria	465	–	–
Hot rolled:				
For agricultural implements	United States	21,414	633	–
	United Kingdom	279	–	–
Rounds over 4 7/8", squares over 4"	United States	646	110	–
	United Kingdom	397	58	.5
Angles, channels, etc.	United States	6,053	129	47.0
	Belgium	11,363	–	–
	United Kingdom	6,873	–	.8
	France	3,409	–	–
	Germany	889	–	–
Structurals (bar sizes) for agricultural implements	United States	6,606	–	2.2
	United Kingdom	857	–	–
	France	152	–	–
Sash or casement sections	United States	3,588	–	–
	Belgium	512	–	–
	United Kingdom	97	–	–
	Germany	27	–	–
Cold rolled, n.o.p.	United States	4,362	259	50.3
	United Kingdom	3,745	112	17.6
	Belgium	371	–	–
	Sweden	200	33	–
	Germany	1,115	–	1.9
	France	782	–	–
Cold rolled, for agricultural implements	United States	5,054	49	4.0
	United Kingdom	273	16	–
	France	385	–	–
Tool steel	United States	387	1,319	–
	United Kingdom	651	979	–
	Sweden	–	6	–
Structurals	United States	184,836	6	1.3
	United Kingdom	30,039	18	–
	Belgium	69,446	–	–
	France	11,325	–	–
	Germany	1,446	–	–
Plates:				
78" and under in width	United States	55,703	171	640.6
	United Kingdom	34,754	13	108.5
	France	13,656	–	106.6
	Germany	10,673	–	–
	Japan	5,627	–	–
	Belgium	13,295	–	56.1
	Austria	94	–	–
Over 78" and under 100" in width	United States	25,908	34	51.1
	United Kingdom	26,892	–	28.7
	Belgium	327	–	–
	France	244	–	–
	Austria	44	–	–
	Germany	576	–	–
100" in width and over	United States	5,254	19	4.5
	United Kingdom	1,068	–	1.2
	Belgium	542	–	–
	Germany	285	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951 – Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Plates – concluded:				
Flanged, dished or curved	United States	2, 538	–	26. 3
	United Kingdom	813	–	–
Boiler, pulp-mill digesters	United States	4, 565	–	36. 2
	United Kingdom	2, 151	–	–
	Belgium	21	–	–
	France	27	–	–
	Japan	27	–	–
Chequered or surface pattern	United States	5, 473	–	–
	United Kingdom	1, 060	–	–
Painted	United States	2	–	–
Sheets:				
Silicon .075 or more	United States	–	26, 662	–
	United Kingdom	–	1, 457	–
Galvanized	United States	11, 752	–	–
	United Kingdom	4, 366	–	–
	France	332	–	–
	Germany	63	–	–
	Belgium	270	–	–
Hot rolled:				
18 gauge and heavier	United States	79, 614	485	770. 4
	Germany	9, 792	45	5. 9
	Belgium	15, 745	–	–
	United Kingdom	9, 011	77	206. 3
	France	7, 397	–	–
	Sweden	221	–	–
	Japan	1, 255	–	–
Lighter than 18 gauge	United States	6, 238	135	252. 5
	United Kingdom	1, 912	3	22. 9
	Belgium	2, 504	–	–
	France	1, 638	–	–
	Japan	572	–	–
	Germany	905	–	–
For hollow ware (vitreous enamel)	United States	2, 850	–	–
	United Kingdom	33	–	–
	Belgium	55	–	–
	France	1, 161	–	–
	Germany	426	–	–
Corrugated	United States	4, 432	–	–
	United Kingdom	242	–	–
Coated with paint, tar, asphaltum, etc.	United States	790	–	–
	Germany	46	–	–
For saws	United States	228	1, 121	–
	United Kingdom	5	123	–
For cold rolled strip	United States	153	–	–
For tubes	United States	1, 516	–	–
Cold rolled:				
18 gauge and heavier	United States	19, 035	26	1, 303. 2
	United Kingdom	3, 970	26	128. 8
	Belgium	287	4	–
	Italy	827	–	–
	Germany	831	–	–
	France	304	–	–
Lighter than 18 gauge	United States	38, 435	86	2, 103. 1
	United Kingdom	3, 367	1	95. 2
	Sweden	1	–	–
	France	297	–	–
	Belgium	2, 591	–	–
	Germany	329	–	–
For hollow ware (vitreous enamel)	United States	10, 158	–	–
	United Kingdom	2, 421	–	–
	France	175	–	–
	Belgium	649	–	–
	Germany	474	–	–
Black plate – tin mill	United States	741	–	–
	United Kingdom	76	–	–
Coated with paint, tar, asphaltum, etc.	United States	695	–	–
	United Kingdom	83	–	–
	Sweden	25	–	–
	Germany	45	–	–
For heating apparatus	United States	938	–	–
For saws	United States	88	122	–
	Sweden	1	9	–
For tubes	United States	7, 530	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951 – Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Sheets – concluded:				
Tin plate – Primes	United States	433	–	–
	United Kingdom	720	–	–
Seconds	United Kingdom	20	–	–
Electrolytic 25#	United States	404	–	–
Terne plate – Long	United States	5,398	–	–
	United Kingdom	108	–	–
Short	United States	2,729	–	–
	United Kingdom	121	–	–
Strip:				
Hot rolled:				
18 gauge and heavier	United States	15,967	53	30.0
	United Kingdom	826	8	16.5
	Belgium	1,039	–	–
	France	301	–	–
	Germany	147	–	–
Lighter than 18 gauge	United States	1,488	10	60.2
	United Kingdom	92	–	.1
	Belgium	865	–	–
	France	47	–	–
For cold rolling	United States	2,439	–	–
	United Kingdom	13	–	–
Painted	United States	2,800	–	–
	United Kingdom	7	–	–
For shoe and corset laces, buckles, ball bearings, etc.	United States	1,140	30	–
For saws	United States	265	454	–
	United Kingdom	3	7	–
	Sweden	18	–	–
For motor vehicles	United States	18,587	–	–
	Belgium	20	–	–
For hoops	United States	2,233	–	–
	United Kingdom	880	–	–
	Belgium	1,582	–	–
	Sweden	6	–	–
For tubes	United States	1,651	6	–
	Belgium	619	–	–
For tubular products	United States	165	–	–
Silicon .075 or more	United States	–	1,805	–
Cold rolled:				
18 gauge and heavier	United States	4,991	220	445.8
	United Kingdom	530	1	1.9
	Sweden	21	–	6.6
	Germany	6	–	–
	Belgium	98	–	–
Lighter than 18 gauge	United States	5,923	345	1,616.3
	Sweden	495	72	–
	United Kingdom	440	18	11.2
	France	107	–	–
	Belgium	25	4	–
	Germany	238	–	–
Painted	United States	6,236	–	–
	Germany	69	–	–
	United Kingdom	7	–	–
For shoe and corset laces, buckles, ball bearings, etc.	United States	532	–	–
	United Kingdom	117	–	–
For saws	United States	107	324	–
	Sweden	4	93	–
	United Kingdom	2	–	–
For tubes	United States	4,580	–	–
	France	271	–	–
	Germany	48	–	–
	Belgium	329	–	–
For tubular products	United States	2,098	–	6
For butt hinges	United States	1,695	–	–
	United Kingdom	85	–	–
Silicon .075 or more	United States	–	50	–
For hoops	United States	86	–	–
	United Kingdom	7	–	–
Galvanized strip	United States	8,570	–	–
	United Kingdom	497	–	–
	Germany	110	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951 — Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Skelp:				
15 3/8" in width	United States	100,019	—	—
	France	3,343	—	—
	Belgium	11,946	—	—
	United Kingdom	20,686	—	—
	Germany	110	—	—
Over 15 3/8" in width	United States	1,570	—	—
	Germany	411	—	—
Plate	United States	2,946	—	—
Pipes and tubes:				
Cast	United States	888	—	—
	United Kingdom	15,827	—	—
	Germany	2,845	—	—
	Sweden	231	—	—
Bedstead	United States	344	—	.2
	France	22	—	—
	United Kingdom	42	—	—
	Belgium	11	—	—
	Denmark	9	—	—
	Sweden	120	—	—
Repair of pressure parts of boilers:				
Hot finished	United States	4,207	88	.1
	United Kingdom	2,320	—	—
	Sweden	86	—	—
	France	267	—	—
Cold drawn	United States	1,115	94	21.5
	United Kingdom	2,928	2	38.0
	Sweden	20	46	1.7
Welded	United States	792	73	2.9
	United Kingdom	139	—	.6
Seamless, 12" and under in diameter:				
Cold drawn	United States	5,757	1,049	163.2
	United Kingdom	2,536	97	210.7
	Sweden	598	33	—
	Germany	19	—	—
Hot finished	United States	6,937	1,446	12.7
	United Kingdom	5,359	2	3.6
	Czechoslovakia	1	—	—
	Germany	189	—	—
	France	325	—	—
	Sweden	—	27	—
Seamless, over 12" in diameter:				
Hot finished	United States	2,987	5	—
	United Kingdom	16,847	—	—
Welded, 4" and under in diameter	United States	7,059	103	40.5
	United Kingdom	7,438	—	1.6
	Belgium	755	—	—
	Czechoslovakia	43	—	—
	Holland	1,143	—	—
	Germany	26	—	—
	France	130	—	—
Welded, over 4" in diameter	United States	3,033	—	.6
	United Kingdom	2,010	—	—
	Germany	80	—	—
	Belgium	27	—	—
Tubing:				
Not over ½" diameter, welded and coated	United States	474	—	—
Spiral welded	United States	2,676	—	—
Casings	United States	57,802	—	—
	United Kingdom	7,528	—	—
	Germany	2,316	—	—
	Netherlands	35	—	—
	Belgium	2,071	—	—
	France	514	—	—
	Italy	57	—	—
Fittings and couplings	United States	4,437	—	41.8
	United Kingdom	540	—	—
	Germany	58	—	—
Wire rope	United States	731	—	37.3
	United Kingdom	1,545	—	—
	Belgium	1	—	—
	Germany	219	—	—
	Holland	8	—	—
	France	2	—	—

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951 – Continued

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Wire for rope	United States	3,713	–	3.0
	United Kingdom	8,219	–	–
	Norway	30	–	–
	Belgium	256	–	–
	Germany	61	–	–
Wire – For fencing, galvanized	United States	32	–	–
For corset laces, steels, etc.	United States	153	–	–
	United Kingdom	31	–	–
For spring mattresses, etc.	United States	4,837	–	–
	United Kingdom	132	–	–
	Czechoslovakia	100	–	–
	Belgium	36	–	–
	Germany	43	–	–
Wire cloth and netting	United States	1,536	–	.9
	United Kingdom	437	–	–
	Germany	39	–	.3
Wire, coated	United States	2,258	–	–
	United Kingdom	404	–	–
	France	106	–	–
	Germany	2	–	–
	Belgium	11	–	–
Wire, all other	United States	8,199	204	63.0
	United Kingdom	373	4	17.6
	Germany	623	3	.7
	France	92	–	–
	Sweden	48	3	.2
	Belgium	655	–	–
Wire rods, not over 3/8" in diameter	United States	1,383	–	–
	France	2,004	–	–
	Belgium	1,620	–	–
	Germany	2,330	–	–
	United Kingdom	429	–	–
	Sweden	223	–	–
Welding wire and welding rods	United States	1,040	192	138.5
	United Kingdom	–	1	36.5
Castings:				
For agricultural implements	United States	3,105	56	–
	United Kingdom	15	–	–
For ingot moulds	United States	23,399	–	–
	United Kingdom	1,361	–	–
Malleable	United States	1,102	–	–
Non-malleable	United States	1,256	–	–
	United Kingdom	50	–	–
Steel	United States	712	132	–
	Norway	45	–	–
	United Kingdom	29	–	–
For railway vehicles	United States	398	–	–
	France	696	–	–
Rolls	United States	2,541	624	–
	United Kingdom	203	55	–
Piston rings (rough)	United States	440	–	–
Forgings	United States	1,361	891	12.0
	United Kingdom	1,470	488	–
	Germany	39	–	–
Wheels – For railway rolling stock	United States	1,246	–	–
	United Kingdom	10,866	–	–
Tires – For railway rolling stock	United States	1,229	–	–
	United Kingdom	11,020	19	–
Rails – 60 lb. and under	United States	1,068	–	–
	Belgium	1,473	–	–
	France	67	–	–
	Germany	440	–	–
	United Kingdom	80	–	–
Over 60 lb. and including 100 lb.	United States	3,580	–	–
	United Kingdom	4,719	–	–
	Belgium	23	–	–
Over 100 lb.	United States	105	–	–
	United Kingdom	91	–	–
Axles – For railway vehicles	United States	78	–	–
	United Kingdom	334	–	–

TABLE 44. Imports of Primary Forms of Iron and Steel, 1951 – Concluded

Commodity	Country of origin	Carbon	Alloy	Stainless
		tons of 2,000 pounds		
Track material:				
Angles, bars, tie plates, rail joints	United States	2,103	–	–
	Belgium	548	–	–
	France	2	–	–
	United Kingdom	1,049	–	–
	Germany	24	–	–
Intersections, switches, frogs	United States	614	–	–
	Germany	1	–	–
Total imports	**United States**	**1,030,563**	**44,301**	**8,258.9**
	All other	**599,784**	**4,875**	**1,189.3**
Total		**1,630,347**	**49,176**	**9.448.2**

TABLE 45. Exports of Primary Iron and Steel, 1951

Commodity	Total tonnage
	tons of 2,000 pounds
Pig iron	223,635
Ingots, blooms and billets	39,038
Bars	13,729
Rods	336
Plates, sheets and strips	28,383
Rails	–
Structural shapes	3,291
Pipe and tubing:	
Wrought iron	3,645
Cast iron	937
Galvanized	1,679
Other	1,578
Castings, iron and steel	18,274
Forgings	6,969
Total	**341,494**

TABLE 46. Employees, and Earnings in the Primary Iron and Steel Industry, by Provinces, 1950 and 1951

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						$	$	$
1950								
Nova Scotia	393	63	4,079	—	4,535	1,430,351	10,824,140	12,254,491
Quebec	405	102	2,972	3	3,482	1,582,348	7,961,415	9,543,763
Ontario	1,749	652	16,909	308	19,618	9,311,086	50,652,083	59,963,169
Manitoba	79	21	792	6	898	335,809	1,870,519	2,206,328
Alberta, British Columbia	50	7	461	—	518	209,155	1,235,021	1,444,176
Canada	**2,676**	**845**	**25,213**	**317**	**29,051**	**12,868,749**	**72,543,178**	**85,411,927**
1951								
Nova Scotia	415	61	4,361	—	4,837	1,639,460	11,615,433	13,254,893
Quebec	465	112	3,618	4	4,199	2,023,433	10,799,598	12,823,031
Ontario	2,108	775	19,396	391	22,670	12,489,791	64,938,088	77,427,879
Manitoba	94	22	878	6	1,000	373,560	2,418,890	2,792,450
Alberta, British Columbia	46	8	631	2	687	217,756	2,045,793	2,263,549
Canada	**3,128**	**978**	**28,884**	**403**	**33,393**	**16,744,000**	**91,817,802**	**108,561,802**

Directory of Firms in the Primary Iron and Steel Industry, 1951

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-alloys[1]	
Chromium Mining & Smelting Corporation, Limited	Sault Ste. Marie, Ontario
Electro Metallurgical Company of Canada, Limited	Welland, Ontario
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
La Compagnie F.X. Drolet	206, rue du Pont, Quebec, Quebec
Lynn MacLeod Metallurgy Limited	Notre Dame St., Thetford Mines, Quebec
Manganese Steel Castings, Limited	Abenaquis St., Sherbrooke, Quebec

Directory of Firms in the Primary Iron and Steel Industry, 1951 – 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
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 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 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
Vancouver Engineering 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 Mill	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.