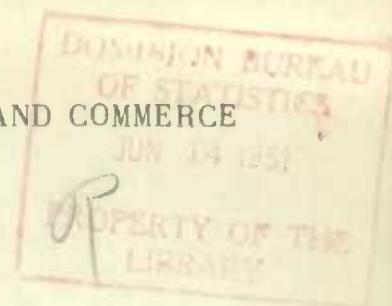


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CANADA



THE IRON CASTINGS INDUSTRY

1949

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Minister of Trade and Commerce

Prepared in the Mining, Metallurgical and Chemical Section
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Dominion Bureau of Statistics, Ottawa

NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beverages
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Products
- XIII Transportation Equipment
- XIV Non-ferrous Metal Products
- XV Electrical Apparatus and Supplies
- XVI Non-metallic Mineral Products
- XVII Products of Petroleum and Coal
- XVIII Chemicals and Allied Products

The present report belongs in Group XII. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

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

THE IRON CASTINGS INDUSTRY

1949

This industry covers the operations of iron and steel works which were occupied chiefly in making commercial iron castings or iron and steel pipe and tubing. Some machinery, boilers, engines, stoves and furnaces, etc., were made as secondary or minor products.

Some iron foundries have not been included in the Iron Castings Industry but have been classified to other special groups. For example, some makers of agricultural implements operated iron foundries to make castings for their own use and these concerns have, of course, been included in the Farm Implements Industry which is reviewed in a separate bulletin. Similarly, some stove manufacturers operated iron foundries but they have been classified to the Cooking and Heating Apparatus Industry which is covered in a separate report.

In 1949 there were 231 establishments in the Iron Castings Industry distributed, by provinces, as follows: Ontario, 112; Quebec, 58; British Columbia 22; Nova Scotia, 8; Manitoba, 8; Saskatchewan, 7; Alberta, 7; New Brunswick, 7; Prince Edward Island, 2. Production from these works was valued at \$133,313,505 at factory prices and they employed an average of 18,339 persons, paid out \$46,165,355 for salaries and wages, \$3,117,227 for fuel and electricity, and \$55,315,454 for manufacturing materials.

Tables 1 to 4 and 7 of this report are for the Iron Castings Industry only. Tables 5 and 6 give the total output in Canada, from all industries, of iron and steel pipe and tubing and miscellaneous iron castings.

TABLE 1. Principal Statistics of the Iron Castings Industry, 1945 - 1949

Year	Number of plants	Average 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
1945	205	15,726	\$ 29,316,949	\$ 2,415,849	\$ 29,478,446	\$ 76,581,974
1946	219	16,925	31,381,935	2,346,480	27,546,850	82,278,070
1947	216	18,167	38,201,506	2,627,481	36,201,211	102,515,842
1948	225	19,354	46,387,940	3,318,540	49,005,345	123,738,693
1949	231	18,339	46,165,355	3,117,227	55,315,454	133,313,505
Per cent change 1949 from 1948.....	-	-5.2	-0.5	-6.1	+12.9	+7.7

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

Table 2. Principal Statistics of the Iron Castings Industry, by Provinces, 1948 and 1949

Province	Number of plants	Average 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
			\$	\$	\$	\$
1948						
Prince Edward Island	2	365	701,019	60,998	611,196	1,661,083
Nova Scotia	7	72	123,457	8,265	63,104	268,630
New Brunswick	6	4,719	10,656,476	651,119	13,131,499	30,777,888
Quebec	61	12,278	30,636,082	2,360,650	31,816,805	79,591,621
Ontario	106	7	1,591,369	111,636	1,376,802	4,807,406
Manitoba	7	120	210,323	14,701	232,847	640,903
Saskatchewan	6	513	1,081,037	38,087	735,745	2,550,851
Alberta	9	609	1,388,177	73,084	1,037,347	3,440,311
British Columbia	21					
Canada	225	19,354	46,387,940	3,318,540	49,005,345	123,738,693
1949						
Prince Edward Island	2	361	718,293	72,373	610,231	1,635,796
Nova Scotia	8	109	147,643	10,634	89,301	350,787
New Brunswick	7	3,944	9,594,199	642,942	13,128,656	29,463,754
Quebec	58	12,173	31,681,711	2,159,601	38,038,298	91,627,925
Ontario	112	725	1,675,497	67,717	1,301,491	4,004,137
Manitoba	8	146	256,186	18,941	225,036	620,278
Saskatchewan	7	342	793,304	25,925	536,283	1,912,156
Alberta	7	539	1,298,522	119,094	1,386,158	3,698,672
British Columbia	22					
Canada	231	18,339	46,165,355	3,117,227	55,315,454	133,313,505

TABLE 3. Products Made by Firms Included in the Iron Castings Industry, 1948 and 1949

Product	1948			1949		
	Tonnage made	Tonnage sold	Selling value at works	Tonnage made	Tonnage sold	Selling value at works
			\$			\$
Commercial castings:						
Aluminum	1,045	1,023	804,853	823	810	778,192
Grey iron	191,793	190,792	30,569,095	190,272	186,173	30,550,301
Malleable iron	36,495	35,456	9,156,402	33,145	31,898	8,541,999
Brass	387	381	291,862	396	389	304,579
Bronze	186	186	165,362	89	89	69,873
Pipe, tubing and fittings, iron and steel	276,115	279,462	41,977,380	327,144	324,620	52,498,334
Pipe fittings (except iron and steel) and other plumbers' goods (other than valves)	—	—	2,830,344	—	—	3,219,955
Sanitaryware, enamelled, cast iron	—	—	8,332,191	—	—	10,987,851
Heating and cooking apparatus (stoves, furnaces, etc.)	—	—	2,643,111	—	—	2,605,606
Machinery and parts	—	—	8,353,516	—	—	5,055,625
Valves (iron, steel, brass and bronze) including radiator valves and traps	—	—	2,643,151	—	—	3,115,410
All other products	—	—	13,541,518	—	—	14,395,205
Receipts from custom work and repairs	—	—	2,429,908	—	—	1,190,575
Total	—	—	123,738,693	—	—	133,313,505

Note: Data given in this table cover only the output of firms which were engaged chiefly in making commercial iron castings, iron and steel pipe and fittings, and which have been classified to the Iron Castings Industry. Figures for the individual items do not represent the total output for Canada as in each case there was also a production in other industrial groups. Supplementary tables have been added to show total production in Canada of iron castings and of iron and steel pipe and tubing.

TABLE 4. Materials Used in the Iron Castings Industry, 1948 and 1949

Material	Unit of measure	1948		1949	
		Quantity	Cost of works	Quantity	Cost of works
			\$		\$
Iron:					
Pig iron, all grades	ton	247,959	10,292,845	210,401	9,822,518
Wrought iron skelp	ton	2	365	—	—
Iron castings of all kinds	ton	2,739	502,083	6,147	1,212,525
Steel, hot or cold rolled:					
Steel castings	ton	4,209	653,584	207	80,761
Billets	ton	37,035	2,551,166	24,121	1,890,768
Bars	ton	14,166	1,091,146	4,215	422,976
Forgings	—	—	13,785	—	21,342
Plates	ton	4,874	366,189	2,681	303,597
Shafting	ton	605	94,086	444	88,249
Sheets:					
Galvanized	ton	402	61,094	487	75,115
Plain (black)	ton	3,412	291,983	3,442	347,092
Polished	ton	16	1,830	2	270
Skelp	ton	113,100	8,037,045	185,353	15,193,334
Strip	ton	5,017	519,358	66	8,428
Stampings	—	—	382,192	—	726,879
Structural shapes (channels, angles, etc.)	ton	2,070	152,363	2,617	273,484
Wire	ton	5,197	406,653	4,845	409,589
Alloy steel	—	—	159,951	—	185,904
Scrap iron and steel of all kinds	ton	222,628	6,390,730	223,414	6,538,437
Other iron and steel (except finished parts)	—	—	166,430	—	741,535
Ferro-alloys	—	—	525,191	—	573,848
Non-ferrous metals (including scrap):					
Aluminum	pound	2,540,486	516,567	2,093,829	456,306
Brass and bronze	pound	5,455,809	1,242,430	5,609,955	1,196,804
Copper	pound	502,661	119,530	346,714	83,609
Lead	pound	95,836	16,792	97,732	28,510
Nickel	pound	347,274	149,504	417,533	162,588
Tin	pound	4,003	4,138	2,643	2,964
Zinc	pound	12,703,264	1,657,025	15,958,070	2,033,259
Babbitt metals and solders	pound	102,312	45,713	419,589	72,329
Other non-ferrous metals	—	—	55,707	—	56,070
Articles used for further manufacture:					
Parts for stoves, machines, etc.	—	—	886,938	—	1,162,747
Iron and steel pipe, tubing and fittings	—	—	184,293	—	292,320
Frit for enamelling	—	—	396,799	—	467,293
Feldspar	ton	561	12,542	520	13,011
Paints, oils and varnishes	—	—	70,499	—	97,513
Other materials and supplies:					
Foundry coke (used in cupola, not for heat or power).	ton	103,765	2,325,364	96,980	2,347,746
Moulding sands	ton	55,562	372,044	59,615	357,984
Core sands	ton	89,828	307,093	79,210	300,021
Silica sand for sand-blasting	ton	7,164	53,899	4,433	36,207
Other foundry sands	ton	19,136	45,100	7,188	43,888
Starch	pound	291,133	23,293	303,869	23,101
Plumbago	pound	586,791	45,119	524,897	38,842
Other foundry facings	pound	—	103,312	5,385,138	141,503
Patterns and models	—	—	102,419	—	95,520
Lumber	M ft. b.m.	4,303	349,019	3,790	317,411
Firebrick	no.	2,348,464	337,757	2,052,077	320,502
Fireclay	ton	7,574	89,606	8,533	82,649
Cupola blocks	no.	401,284	107,037	341,830	94,441
Core oil	Imp. gal.	303,659	326,694	254,626	263,650
Core compound	pound	2,269,336	117,402	2,372,386	111,435
Sulphuric acid 100%	pound	3,003,357	33,892	6,034,036	69,770
Acetylene	cu. ft.	1,256,755	36,215	1,329,183	41,873
Oxygen	cu. ft.	15,117,328	117,979	17,487,828	118,494
Shipping containers	—	—	727,198	—	844,489
All other materials and supplies	—	—	5,366,357	—	4,623,954
Total	—	—	49,005,345	—	55,315,454

TABLE 5. Factory Sales of Iron and Steel Pipe and Tubing, 1948 and 1949 (From all Industries)

		1948	1949
Cast iron soil pipe and fittings	ton	44,860	39,622
	\$	7,119,098	6,837,214
Cast iron water pipe and fittings	ton	91,677	88,560
	\$	8,480,694	8,863,539
Cast iron pipe fittings, all other, including flanges and flange fittings	ton	15,807	15,700
	\$	3,596,889	3,310,135
Malleable iron pipe fittings of all kinds, including railways fittings	ton	11,789	11,497
	\$	5,088,766	6,279,235
Steel pipe, buttweld and lapweld, all sizes	ton	106,452	163,571
	\$	13,187,856	23,754,051
Steel pipe fittings, all kinds	ton	5,765	4,364
	\$	1,786,024	1,474,413
Steel pipe, riveted or welded (from plate)	ton	3,669	3,953
	\$	1,079,637	1,188,958
Culvert pipe formed from steel sheets.....	\$	4,343,703	5,378,000
Steel tubing, including seamless, boiler, light cold formed, etc.	ton	32,407	33,874
	\$	6,597,597	6,431,412
Total value	\$	51,280,264	63,516,957

APPENDIX

As mentioned in the opening paragraphs of this report, the Iron Castings Industry includes only the foundries which were engaged *chiefly* in making miscellaneous castings and forgings to their customers' orders, or in making such specific products as cast iron or malleable iron pipe and fittings or cast iron sanitaryware. Some other concerns operated customs foundries as a secondary part of their business, and others maintained foundries to cast their own parts for agricultural implements, machinery, stoves, etc.,

which were the final products of their works. These latter foundries have been classified to other industrial groups.

A special study of all reports submitted to the Bureau indicates that in 1949 there were 393 operating iron foundries distributed across Canada. In 1949 these foundries used 380,000 net tons of pig iron, 532,000 net tons of scrap iron, and 195,000 net tons of cupola coke, and production of iron castings totalled 778,000 tons.

TABLE 6. Total Production of Iron Castings, and Materials Charged to Cupolas, 1947-1949

		1947	1948	1949
Pig iron used	net tons	390,792	439,101	380,000
	\$	13,376,494	17,909,408	17,806,000
Scrap iron and steel used	net tons	468,627	539,406	532,000
	\$	9,859,031	14,569,533	14,673,000
Coke used in cupolas or melting furnaces	net tons	178,801	208,269	195,000
	\$	3,267,821	4,660,450	4,616,000
Iron castings made (whether for sale or for own use):				
Gray and white iron castings ¹	net tons	443,000	503,000	579,000
Malleable iron ¹	net tons	41,000	43,000	43,000
Cast iron pipe and fittings	net tons	124,000	152,000	146,000
Malleable iron pipe fittings	net tons	12,000	11,000	10,000
Total castings	net tons	620,000	709,000	778,000

Note: A complete list of iron foundries in Canada may be obtained by writing to the Dominion Statistician, Dominion Bureau of Statistics, Ottawa, Canada.

1. Estimated from monthly statements by 200 iron foundries which in 1949 accounted for about 85 per cent of total production.

TABLE 7. Employees and their Earnings in the Iron Castings Industry, 1948 and 1949

Province	Average number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
1948									
Prince Edward Island									
Nova Scotia	20	8	333	4	365	61,828	639,191	701,019	
New Brunswick	7	3	60	2	72	23,568	99,889	123,457	
Quebec	404	147	4,065	103	4,719	1,432,187	9,224,289	10,656,476	
Ontario	725	351	10,962	240	12,278	3,617,377	27,018,705	30,636,082	
Manitoba	90	33	555	—	678	316,102	1,275,267	1,591,369	
Saskatchewan	12	7	101	—	120	40,401	169,922	210,323	
Alberta	77	17	416	3	513	250,420	830,617	1,081,037	
British Columbia	66	18	523	2	609	238,287	1,149,890	1,388,177	
Canada	1,401	584	17,015	354	19,354	5,980,170	40,407,770	46,387,940	
1949									
Prince Edward Island									
Nova Scotia	29	11	317	4	361	86,471	631,822	718,293	
New Brunswick	33	4	70	2	109	38,760	108,883	147,643	
Quebec	429	159	3,266	90	3,944	1,594,580	7,999,619	9,594,199	
Ontario	814	355	10,769	235	12,173	3,991,090	27,690,621	31,681,711	
Manitoba	89	37	598	1	725	383,840	1,291,657	1,675,497	
Saskatchewan	18	8	115	5	146	71,732	184,454	256,186	
Alberta	39	13	283	7	342	162,590	630,714	793,304	
British Columbia	58	19	461	1	539	237,944	1,060,578	1,298,522	
Canada	1,509	606	15,879	345	18,339	6,567,007	39,598,348	46,165,355	

Directory of Firms Included in the Iron Castings Industry, 1949

Note: The following list includes only names of the concerns which have been classified to this particular industry. It is not intended to be a complete list of iron foundries in Canada.

Name of Firm	Location of Plant
Prince Edward Island:	
Parker, H. W.	Georgetown
Stewart, Bruce, and Co. Limited	6 Great George St., Charlottetown
Nova Scotia:	
Albion Foundry & Metal Works	Clinton St., Amherst
Dartmouth Iron Foundry	42 Maple St., Dartmouth
Enamel and Heating Products Limited	Station St., Amherst
Fleming Bros.	1595 Barrington St., Halifax
Hanright Foundry Co.	10 Highfield St., Amherst
Hillis and Sons, Ltd	209 Hollis St., Halifax
Matheson, I., Co. Limited	Box 1101, New Glasgow
New Glasgow Foundry	New Glasgow
New Brunswick:	
Courtenay Iron and Brass Foundry	169 Rothesay Ave., Saint John
Dunbar Engine and Foundry Co.	Box 63, Woodstock
Fredericton Foundry	953 Union St., Fredericton
McLennan Engineering Works Ltd.	Campbellton
Moncton Foundry & Machine Co. Limited	Beaverbrook St., Moncton
Phoenix Foundry Company	126-158 Pond St., Saint John
Wallace Mfg. Co. Ltd.	Winter St., Sussex

Directory of Firms Included in the Iron Castings Industry, 1949 - Continued

Name of Firm	Location of Plant
Quebec:	
A la Vieille Forge Enrg.	St. Césaire
Boisclair, Antoine	St. Gabriel de Brandon
Canada Iron Foundries, Limited	227 St. Maurice St., Three Rivers
Canadian National Foundry	Grand'Mère
Canadian Tube and Steel Products, Limited	5765 Hamilton St., Montreal
Crane, Limited	3800 St. Patrick St., Cote St. Paul, Montreal
Crane Steelware Ltd.	St. Malo
Dominion Tank Mech. Works	Bldv. Labelle, St. Martin
Fortin, René	110 Lois St., Hull
Gariepy Foundry Reg'd.	49 Allen St., Waterloo
General Foundry Ltd.	Windsor Mills
Granby Foundry & Machine Co.	165 Laval St., Granby
Hudon, J., & Fils Enrg.	1 St. Louis St., La Tuque
La Compagnie Dussault et Lamoureux	18 Ave. de L'Hotel Dieu, St. Hyacinthe
La Fonderie B.C.L. Ltée	Rivière Bleue
La Fonderie Bégin & Gingras Enrg.	Industrial Center No.5, Quebec
La Fonderie Beloeil, Ltée	Beloeil Station
La Fonderie Bourget, Enrg.	Windsor Mills East
La Fonderie Canadienne	374 St. Jacques St., St. John
La Fonderie de Ste. Croix Ltée	Ste. Croix
La Fonderie de Robertsonville Ltée	Robertsonville
La Fonderie de Thetford Ltée	235 Notre Dame St., Thetford Mines
La Fonderie Despres	Montmagny Station
La Fonderie Légaré	48 Short St., Sherbrooke
La Fonderie Magog	Magog
La Fonderie Ouellet Enrg.	St. Leonard d'Aston
La Fonderie Paquette Enrg.	30 St. Ignace St., Laprairie
La Fonderie St. Maurice Enrg.	Brunelle
La Fonderie St. Placide	St. Placide
La Fonderie St. Romuald, Enrg.	58 Rue Saxe, St. Romuald
La Fonderie Trottier Inc.	Ste. Anne de la Perade
Lamont Alloy Foundry Ltd.	361 Alice St., Joliette
Laroche & Frères, Ltée	Pont Rouge
Lavoie, Euchariste Enrg.	Baie St. Paul
Les Industries Roy Ltée	Montmagny Station
Limoges & Frères	42 Chateauguay St., Hull
Maury, A.	7544A St. Hubert St., Montreal
McOuat, T., and Son, Limited	Lachute Mills
Melanson's Foundry	2430 Ville Marie St., Montreal
Metro Engineering Co.	239 Green Ave., Montreal
Montreal Foundry Limited	1260 Conde St., Montreal
Monsarrat Machinery and Foundries Ltd.	Rivière du Loup
Northern Foundry	60 St. Hubert St., Pont Viau
Paul Bros. Foundry Limited	3 rue Poupard, Laprairie
Peacock Bros. Limltd	260 St. Patrick St., Ville la Salle
Provost, Aimé	Napierville
Quebec Brass and Iron Foundry Co. Ltd.	53 Commercial St., Lévis
Rouleau Limitée	Mont Joli
St. Jerome Industries Ltd.	St. Jerome
Savoie, René	Ste. Marie de Beauce
Shawinigan Foundries, Limited	Shawinigan Falls
Steel Company of Canada, Limited	4110 St. Ambroise St., Montreal
Terreau & Racine Limitée	194 .. 228 rue St. Paul, Quebec
Terrebonne Foundry Inc.	40 St. Joseph St., Terrebonne
Union Foundry Limited	431 St. Luke St., Granby
Viau, M. I., et Fils, Ltée	St. Joseph St., St. Jerome
Wabi Iron Works (Quebec) Ltd.	Noranda
Walford, H., Limited	2320 Aird Ave., Montreal
Ontario:	
Alloy Foundry Incorporated	Merrickville
Armstrong Foundry & Machine Shop, Ltd.	Wellington St., Orangeville
Auto Specialties Mfg. Co. (Canada) Ltd.	614 Tecumseh Rd. E., Windsor
Barco Mfg. Co. of Canada, Ltd.	Power Building, Windsor
Barratt and Milks	Gananoque
Beatty Bros. Ltd.	London
Beaver Foundry & Furnace Works	Harvey St., Tillsonburg
Bell City Foundry	441 West St., Brantford
Benn Iron Foundry	314 Wallace St., Wallaceburg
Bibby Foundry	Beverley St., Galt
Bint, R., Foundry Limited	175 King St. W., Oshawa
Blow Foundry	Acton

TABLE 4. Materials Used in the Iron Castings Industry, 1948 and 1949

Material	Unit of measure	1948		1949	
		Quantity	Cost of works	Quantity	Cost of works
Iron:			\$		\$
Pig iron, all grades.....	ton	247,959	10,292,845	210,401	9,822,518
Wrought iron skelp	ton	2	365	—	—
Iron castings of all kinds	ton	2,739	502,083	6,147	1,212,525
Steel, hot or cold rolled:					
Steel castings.....	ton	4,209	653,584	207	80,761
Billets.....	ton	37,035	2,551,166	24,121	1,890,768
Bars.....	ton	14,166	1,091,146	4,215	422,976
Forgings	—	—	13,785	—	21,342
Plates.....	ton	4,874	366,189	2,681	303,597
Shafting.....	ton	605	94,086	444	88,249
Sheets:					
Galvanized	ton	402	81,094	487	75,115
Plain (black)	ton	3,412	291,983	3,442	347,092
Polished.....	ton	16	1,830	2	270
Skelp	ton	113,100	8,037,045	185,353	15,193,334
Strip	ton	5,017	519,358	66	8,428
Stampings	—	—	382,192	—	726,879
Structural shapes (channels, angles, etc.).....	ton	2,070	152,363	2,617	273,484
Wire	ton	5,197	406,653	4,845	409,589
Alloy steel	—	—	159,951	—	185,904
Scrap iron and steel of all kinds.....	ton	222,628	6,390,730	223,414	6,538,437
Other iron and steel (except finished parts).....	—	—	166,430	—	741,535
Ferro-alloys.....	—	—	525,191	—	573,848
Non-ferrous metals (including scrap):					
Aluminum	pound	2,540,486	516,567	2,093,829	456,306
Brass and bronze.....	pound	5,455,809	1,242,430	5,609,955	1,196,804
Copper	pound	502,661	119,530	346,714	83,609
Lead	pound	95,836	16,792	97,732	28,510
Nickel	pound	347,274	149,504	417,533	162,588
Tin	pound	4,003	4,138	2,643	2,964
Zinc	pound	12,703,264	1,657,025	15,958,070	2,033,259
Babbitt metals and solders	pound	102,312	45,713	419,589	72,329
Other non-ferrous metals	—	—	55,707	—	56,070
Articles used for further manufacture:					
Parts for stoves, machines, etc.....	—	—	886,938	—	1,162,747
Iron and steel pipe, tubing and fittings	—	—	184,293	—	292,320
Frit for enamelling	—	—	396,799	—	467,293
Feldspar	ton	561	12,542	520	13,011
Paints, oils and varnishes	—	—	70,499	—	97,513
Other materials and supplies:					
Foundry coke (used in cupola, not for heat or power).....	ton	103,765	2,325,364	96,980	2,347,746
Moulding sands.....	ton	55,562	372,044	59,615	357,984
Core sands	ton	89,828	307,093	79,210	300,021
Silica sand for sand-blasting	ton	7,164	53,899	4,433	36,207
Other foundry sands	ton	19,136	45,100	7,188	43,888
Starch	pound	291,133	23,293	303,869	23,101
Plumbago	pound	586,791	45,119	524,897	38,842
Other foundry facings	pound	—	103,312	5,385,138	141,503
Patterns and models	—	—	102,419	—	95,520
Lumber	M ft. b.m.	4,303	349,019	3,790	317,411
Firebrick	no.	2,348,464	337,757	2,052,077	320,502
Fireclay	ton	7,574	89,606	8,533	82,649
Cupola blocks	no.	401,284	107,037	341,830	94,441
Core oil.....	Imp. gal.	303,659	326,694	254,626	263,650
Core compound	pound	2,269,336	117,402	2,372,386	111,435
Sulphuric acid 100%	pound	3,003,357	33,892	6,034,036	69,770
Acetylene	cu. ft.	1,256,755	36,215	1,329,183	41,873
Oxygen	cu. ft.	15,117,328	117,979	17,487,828	118,494
Shipping containers	—	—	727,198	—	844,489
All other materials and supplies.....	—	—	5,366,357	—	4,623,954
Total	—	—	49,005,345	—	55,315,454

TABLE 5. Factory Sales of Iron and Steel Pipe and Tubing, 1948 and 1949 (From all Industries)

		1948	1949
Cast iron soil pipe and fittings	ton	44,860	39,622
	\$	7,119,098	6,837,214
Cast iron water pipe and fittings	ton	91,677	88,560
	\$	8,480,694	8,863,539
Cast iron pipe fittings, all other, including flanges and flange fittings	ton	15,807	15,700
	\$	3,596,889	3,310,135
Malleable iron pipe fittings of all kinds, including railways fittings	ton	11,789	11,497
	\$	5,088,766	6,279,235
Steel pipe, buttweld and lapweld, all sizes	ton	106,452	163,571
	\$	13,187,856	23,754,051
Steel pipe fittings, all kinds	ton	5,765	4,364
	\$	1,786,024	1,474,413
Steel pipe, riveted or welded (from plate)	ton	3,669	3,953
	\$	1,079,637	1,188,958
Culvert pipe formed from steel sheets.....	\$	4,343,703	5,378,000
Steel tubing, including seamless, boiler, light cold formed, etc.	ton	32,407	33,874
	\$	6,597,597	6,431,412
Total value	\$	51,280,264	63,516,957

APPENDIX

As mentioned in the opening paragraphs of this report, the Iron Castings Industry includes only the foundries which were engaged *chiefly* in making miscellaneous castings and forgings to their customers' orders, or in making such specific products as cast iron or malleable iron pipe and fittings or cast iron sanitaryware. Some other concerns operated customs foundries as a secondary part of their business, and others maintained foundries to cast their own parts for agricultural implements, machinery, stoves, etc.,

which were the final products of their works. These latter foundries have been classified to other industrial groups.

A special study of all reports submitted to the Bureau indicates that in 1949 there were 393 operating iron foundries distributed across Canada. In 1949 these foundries used 380,000 net tons of pig iron, 532,000 net tons of scrap iron, and 195,000 net tons of cupola coke, and production of iron castings totalled 778,000 tons.

TABLE 6. Total Production of Iron Castings, and Materials Charged to Cupolas, 1947-1949

		1947	1948	1949
Pig iron used	net tons	390,792	439,101	380,000
	\$	13,376,494	17,909,408	17,806,000
Scrap iron and steel used	net tons	468,627	539,406	532,000
	\$	9,859,031	14,569,533	14,673,000
Coke used in cupolas or melting furnaces	net tons	178,801	208,269	195,000
	\$	3,267,821	4,660,450	4,616,000
Iron castings made (whether for sale or for own use):				
Gray and white iron castings ¹	net tons	443,000	503,000	579,000
Malleable iron ¹	net tons	41,000	43,000	43,000
Cast iron pipe and fittings	net tons	124,000	152,000	146,000
Malleable iron pipe fittings	net tons	12,000	11,000	10,000
Total castings	net tons	620,000	709,000	778,000

Note: A complete list of iron foundries in Canada may be obtained by writing to the Dominion Statistician, Dominion Bureau of Statistics, Ottawa, Canada.

1. Estimated from monthly statements by 200 iron foundries which in 1949 accounted for about 85 per cent of total production.

TABLE 7. Employees and their Earnings in the Iron Castings Industry, 1948 and 1949

Province	Average number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
1948									
Prince Edward Island									\$
Nova Scotia	20	8	333	4	365	61,828	639,191	701,019	
New Brunswick	7	3	60	2	72	23,568	99,889	123,457	
Quebec	404	147	4,065	103	4,719	1,432,187	9,224,289	10,656,476	
Ontario	725	351	10,962	240	12,278	3,617,377	27,018,705	30,636,082	
Manitoba	90	33	555	—	678	316,102	1,275,267	1,591,369	
Saskatchewan	12	7	101	—	120	40,401	169,922	210,323	
Alberta	77	17	416	3	513	250,420	830,617	1,081,037	
British Columbia	68	18	523	2	609	238,287	1,149,890	1,388,177	
Canada	1,401	584	17,015	354	19,354	5,980,170	40,407,770	46,387,940	
1949									
Prince Edward Island									\$
Nova Scotia	29	11	317	4	361	86,471	631,822	718,293	
New Brunswick	33	4	70	2	109	38,760	108,883	147,643	
Quebec	429	159	3,266	90	3,944	1,594,580	7,999,619	9,594,199	
Ontario	814	355	10,769	235	12,173	3,991,090	27,890,621	31,681,711	
Manitoba	89	37	598	1	725	383,840	1,291,657	1,675,497	
Saskatchewan	18	8	115	5	146	71,732	184,454	256,186	
Alberta	39	13	283	7	342	162,590	630,714	793,304	
British Columbia	58	19	461	1	539	237,944	1,060,578	1,298,522	
Canada	1,509	606	15,879	345	18,339	6,567,007	39,598,348	46,165,355	

Directory of Firms Included in the Iron Castings Industry, 1949

Note: The following list includes only names of the concerns which have been classified to this particular industry. It is not intended to be a complete list of iron foundries in Canada.

Name of Firm	Location of Plant
Prince Edward Island:	
Parker, H. W.	Georgetown
Stewart, Bruce, and Co. Limited	6 Great George St., Charlottetown
Nova Scotia:	
Albion Foundry & Metal Works	Clinton St., Amherst
Dartmouth Iron Foundry	42 Maple St., Dartmouth
Enamel and Heating Products Limited	Station St., Amherst
Fleming Bros.	1595 Barrington St., Halifax
Hanright Foundry Co.	10 Highfield St., Amherst
Hillis and Sons, Ltd	209 Hollis St., Halifax
Matheson, I., Co. Limited	Box 1101, New Glasgow
New Glasgow Foundry	New Glasgow
New Brunswick:	
Courtenay Iron and Brass Foundry	169 Rothesay Ave., Saint John
Dunbar Engine and Foundry Co.	Box 63, Woodstock
Fredericton Foundry	953 Union St., Fredericton
McLennan Engineering Works Ltd.	Campbellton
Moncton Foundry & Machine Co. Limited	Beaverbrook St., Moncton
Phoenix Foundry Company	126-158 Pond St., Saint John
Wallace Mfg. Co. Ltd.	Winter St., Sussex

Directory of Firms Included in the Iron Castings Industry, 1949 - Continued

Name of Firm	Location of Plant
Quebec:	
A la Vieille Forge Enrg.	St. Césaire
Boisclair, Antoine	St. Gabriel de Brandon
Canada Iron Foundries, Limited	227 St. Maurice St., Three Rivers
Canadian National Foundry	Grand'Mère
Canadian Tube and Steel Products, Limited	5765 Hamilton St., Montreal
Crane, Limited	3800 St. Patrick St., Cote St. Paul, Montreal
Crane Steelware Ltd.	St. Malo
Dominion Tank Mech. Works	Blvd. Labelle, St. Martin
Fortin, René	110 Lois St., Hull
Gariepy Foundry Reg'd.	49 Allen St., Waterloo
General Foundry Ltd.	Windsor Mills
Granby Foundry & Machine Co.	165 Laval St., Granby
Hudon, J., & Fils Enrg.	1 St. Louis St., La Tuque
La Compagnie Dussault et Lamoureux	18 Ave. de L'Hotel Dieu, St. Hyacinthe
La Fonderie B.C.L. Ltée	Rivière Bleue
La Fonderie Bégin & Gingras Enrg.	Industrial Center No.5, Quebec
La Fonderie Beloeil, Ltée	Beloeil Station
La Fonderie Bourget, Enrg.	Windsor Mills East
La Fonderie Canadienne	374 St. Jacques St., St. John
La Fonderie de Ste. Croix Ltée	Ste. Croix
La Fonderie de Robertsonville Ltée	Robertsonville
La Fonderie de Thetford Ltée	235 Notre Dame St., Thetford Mines
La Fonderie Despres	Montmagny Station
La Fonderie Légaré	48 Short St., Sherbrooke
La Fonderie Magog	Magog
La Fonderie Ouellet Enrg.	St. Leonard d'Aston
La Fonderie Paquette Enrg.	30 St. Ignace St., Laprairie
La Fonderie St. Maurice Enrg.	Brunelle
La Fonderie St. Placide	St. Placide
La Fonderie St. Romuald, Enrg.	58 Rue Saxe, St. Romuald
La Fonderie Trottier Inc.	Ste. Anne de la Perade
Lamont Alloy Foundry Ltd.	361 Alice St., Joliette
Laroche & Frères, Ltée	Pont Rouge
Lavoie, Euchariste Enrg.	Baie St. Paul
Les Industries Roy Ltée	Montmagny Station
Limoges & Frères	42 Chateauguay St., Hull
Maury, A.	7544A St. Hubert St., Montreal
McOuat, T., and Son, Limited	Lachute Mills
Melanson's Foundry	2430 Ville Marie St., Montreal
Metro Engineering Co.	239 Green Ave., Montreal
Montreal Foundry Limited	1260 Conde St., Montreal
Monsarrat Machinery and Foundries Ltd.	Rivière du Loup
Northern Foundry	60 St. Hubert St., Pont Vieux
Paul Bros. Foundry Limited	3 rue Poupart, Laprairie
Peacock Bros. Limited	260 St. Patrick St., Ville la Salle
Provost, Aimé	Napierville
Quebec Brass and Iron Foundry Co. Ltd.	53 Commercial St., Lévis
Rouleau Limitée	Mont Joli
St. Jerome Industries Ltd.	St. Jerome
Savoie, Réné	Ste. Marie de Beauce
Shawinigan Foundries, Limited	Shawinigan Falls
Steel Company of Canada, Limited	4110 St. Ambroise St., Montreal
Terreau & Racine Limitée	194 .. 228 rue St. Paul, Quebec
Terrebonne Foundry Inc.	40 St. Joseph St., Terrebonne
Union Foundry Limited	431 St. Luke St., Granby
Viau, M. I., et Fils, Ltée	St. Joseph St., St. Jerome
Wabi Iron Works (Quebec) Ltd.	Noranda
Walford, H., Limited	2320 Aird Ave., Montreal
Ontario:	
Alloy Foundry Incorporated	Merrickville
Armstrong Foundry & Machine Shop, Ltd.	Wellington St., Orangeville
Auto Specialties Mfg. Co. (Canada) Ltd.	614 Tecumseh Rd. E., Windsor
Barco Mfg. Co. of Canada, Ltd.	Power Building, Windsor
Barratt and Milks	Gananoque
Beatty Bros. Ltd.	London
Beaver Foundry & Furnace Works	Harvey St., Tillsonburg
Bell City Foundry	441 West St., Brantford
Benn Iron Foundry	314 Wallace St., Wallacetown
Bibby Foundry	Beverley St., Galt
Blnt, R., Foundry Limited	175 King St. W., Oshawa
Blow Foundry	Acton

Directory of Firms Included in the Iron Castings Industry, 1949 — Continued

Name of Firm	Location of Plant
Ontario:— Continued	
Bock, A. E. Foundry Co.	70 Water St., N., Galt
Bowmanville Foundry Company Limited	Scugog St., Bowmanville
Callender Foundry and Manufacturing Co. Limited	54 Crimea St., Guelph
Canada Iron Foundries Limited	Stuart St. W., Hamilton
Canada Valve & Hydrant Co. Limited	44 Holme St., Brantford
Canadian Blower and Forge Co. Ltd.	Woodside Ave., Kitchener
Canadian Car & Foundry Company, Limited	Wilkins St., Brantford
Canadian General Electric Co. Ltd.	990 Lansdowne Ave., Toronto
Canadian Scale Co. (Weir Division)	41 Ossington Ave., Etobicoke
Castings of Ottawa, Ltd.	51 Booth St., Ottawa
Central Foundry	Hespeler
Clarke, J. F. & Co.	Ida
Cobalt Foundry Limited	Ferland Ave., Cobalt
Concord Foundries Limited	27 John St., Grimsby
Cornwall Brass & Iron Foundry	422 Sixth Ave. E., Cornwall
Crawford Machine & Foundry	100 Wilson St., Woodstock
Christen, O., Foundry Co.	Owen Sound
Cunningham & Son Limited	Berryman Ave., St. Catharines
Dairy-Brewery Equipment & Engineering	37 Hanna Ave., Toronto
Daly Household Appliances	1107 Aubin Road, Windsor
Dart Union Co. Ltd.	11 Charlotte St., Toronto
Davidson Foundry	16 Hamilton Ave., Ottawa
Domestic Foundry	1595 Crawford Ave., Windsor
Dundas Foundry & Engineering Company	Dundas
Eureka Foundry & Manufacturing Co. Limited	Winnett St., Woodstock
Fairbanks Foundry	52 Clarkson Ave., Toronto
Fergusson, J. H., Company	Dundas
Fittings Limited	135 Bruce St., Oshawa
Foley Foundry & Machine Co. Limited	368 Front St., Belleville
Forest Foundry	Forest
Galt Malleable Iron Co. Limited	Shade and Kerr Sts., Galt
Gartshore-Thomson Pipe and Foundry Co. Ltd.	Stuart St., Hamilton
Gies, Philip, Foundry Ltd.	36 Water St. S., Kitchener
Green, G. Walter, Co. Limited	406 McDonnel St., Peterborough
Greenville Castings Ltd.	Merrickville
Griffin Foundry Co.	22 Huskisson St., Guelph
Grinnell Company of Canada, Limited	2440 Dundas St. W., Toronto
Guelph Engineering Co. Limited	Adelaide St., Guelph
Hamilton Foundry Co. Ltd.	33 Clinton St., Hamilton
Hampson, A.G.	Walkerton
Hartley Foundry Co.	247 Colborne St. W., Brantford
Hastings & Sons Foundry & Machine Shop	10 Pine St., Stratford
Holmes Foundry Company Limited	Exmouth St., Sarnia
Imbleau, H., & Sons	63 Raglan St., Renfrew
International Malleable Iron Co. Ltd.	200 Beverley St., Guelph
Jackson Engineering and Foundry Co.	382-388 King St. E., Kingston
James Bros. Foundry	Perth
Kent Foundry	Richmond St., Chatham
Lakeside Foundry Ltd.	101 Killaly Road, Humberstone
Lawson, Thos., and Sons, Ltd.	376 Wellington St., Ottawa
Lindsay Foundry Co.	Kent St., Lindsay
Lincoln Foundry Co.	65 St. Paul Crescent, St. Catharines
Massey-Harris Company Limited	Canal St., Brantford
Marshall, A.	296 Parent Ave., Windsor
McLean Underfeed Stoker Co. Limited	West Hill, Toronto
McBain Foundry	6 Plymouth Ave., Toronto
McCoy Foundry Co.	67 Bay St. N., Hamilton
McCrae, J., Machine & Foundry Co.	81 Williams St. N., Lindsay
McIntyre & Taylor, Limited	505 Queen St. W., Toronto
Morash Foundry Co.	Morrisburg
Muskoka Foundry Limited	Shier St., Bracebridge
National Iron Corporation Limited	324 Cherry St., Toronto
Niagara Foundry Company	747 Buttery Ave., Niagara Falls
Ontario Malleable Iron Co. Ltd.	Oshawa
Page-Hersey Tubes, Ltd.	Guelph and Welland
Paramount Gearworks Limited	1247 Lawrence Ave. W., Weston
Payette, P., Co.	Nelson St., Penetanguishene
Port Hope Sanitary Mfg. Co. Limited	Port Hope
Preston Foundry Co. Ltd.	307 Bishop St., Preston
Production Castings Ltd.	7th and New Toronto Sts., New Toronto
Progressive Heating Co. Limited	147 Main St., Galt
Sarco Canada Ltd.	Claremont
Shantz, P. E., Foundry	Fountain St., Preston

Directory of Firms Included in the Iron Castings Industry, 1949 - Continued

Name of Firm	Location of Plant
Ontario: Concluded	
Slatcher Engineering Co. Ltd.	875 Old Weston Road, Toronto
Smith Bros.	Beaverton
Smith's Falls Malleable Castings Limited	22 Bay St., Smith's Falls
Soil Pipe & Fittings Limited	Mimico
Standard Foundry and Supply Co. Ltd.	840 Walker Road, Windsor
Standard Sanitary & Dominion Radiator Ltd.	800 Lansdowne Ave., Toronto
Standard Tube Company Limited	Drew & Given Sts., Woodstock
Standard Castings & Mfg. Co.	Sheffield St., Hespeler
Sudbury Construction & Machinery Co. Ltd.	149 Lorne St., Sudbury
Teeswater Foundry	Teeswater
Tomlinson, T., Foundry Co. Limited	352 Front St. E., Toronto
Toronto Foundry Co. Limited	1884 Davenport Road, Toronto
Toronto Hardware Mfg. Co. Ltd.	420 Dufferin St., Toronto
Victoria Foundry Co. Ltd.	44 Booth St., Ottawa
Wabi Iron Works, Limited	New Liskeard
Walker Metal Products Limited	1511 Kildare Road, Walkerville
Walkerton Foundry	Walkerton
Warp Tension Governors, Limited	303 Water St. W., Cornwall
Webber, O. M.	Hawkesville
Welland Iron and Brass Company	102 Niagara St., Welland
Wells Foundry Limited	1250 Florence St., London
West Machinery Limited	1 Union St., Simcoe
Whittaker Fireplaces	859 Wyandotte St. W., Windsor
Woodside Bros.	173 Manitou St., Port Arthur
Worr Foundry Company Limited	163 Sterling Road, Toronto
Wotherspoon, J. A. & Son Ltd.	Cross Ave., Oakville
Manitoba:	
Anthes Foundry Limited	Saskatchewan Ave., Winnipeg
Bell Foundry Co.	120 Aberdeen Ave., Winnipeg
Dominion Foundry Company	Watt and Union Sts., Winnipeg
Greens Stove & Repairs Limited	1030 Arlington St., Winnipeg
Progressive Mfg. Company	470 Warsaw Ave., Winnipeg
Thor Foundry	794 Archibald St., St. Boniface
Vulcan Iron Works, Limited	Sutherland & Maple, Winnipeg
Winnipeg Foundry Co. Ltd.	944 Henry Ave., Winnipeg
Saskatchewan:	
Acme Foundry Company	180 Ave. A. N., Saskatoon
Blanchard Foundry & Machine Co. Ltd.	104 .. 22nd Street W., Saskatoon
East, John, Iron Works Ltd.	121 Avenue C. N., Saskatoon
Melfort Iron Works	Melfort
Moose Jaw Foundry	High St. & 6th Ave., Moose Jaw
Prince Albert Foundry Company	17th. and Central Sts., Prince Albert
Springstein & Davidson Machine Shop	6th Avenue and Lorne St., Regina
Alberta:	
Calgary Iron Works Limited	410 .. 9th Avenue E., Calgary
Canadian Foundry Company	240 .. 3rd Avenue E., Calgary
Lethbridge Iron Works Co. Ltd.	120 .. 1st Avenue S., Lethbridge
Nichols Bros. Limited	10103 .. 95th Street, Edmonton
Norwood Foundry Co. Ltd.	9111 .. 111th Avenue, Edmonton
Standard Iron Works, Limited	121 St. and 106 Avenue, Edmonton
St. Paul Foundry	St. Paul
British Columbia:	
Alliance Ware, Ltd.	1590 Powell St., Vancouver
Acme Iron Works	1210 Glen Drive, Vancouver
Associated Iron Foundry	4080 Nanaimo St., Vancouver
Cranbrook Foundry Company Limited	Cranbrook
Dobney Foundry Co.	312 .. 13th St., New Westminster
Ellis, W. J., & Co. Ltd.	210 Lorne St., Kamloops
Howard & Mohs	Estabrook Ave., Penticton
Littler & Sons Iron Works	1475 Franklin St., Vancouver
McLean and Powell Iron Works	398 W. 2nd Avenue, Vancouver
Mainland Foundry Company	1707 Pandora St., Vancouver

Directory of Firms Included in the Iron Castings Industry, 1949 — Concluded

Name of Firm	Location of Plant
British Columbia: Concluded	
Master Heating Products Ltd.	224 W. 5th Ave., Vancouver
Milbourne Foundry	852 River Road, Lulu Island, Eburne
Nairn Brothers Foundry	1616 Powell St., Vancouver
Nye Foundry	503 Powell Street, Vancouver
Ramsay & Adams Foundry Co. Ltd.	1630 Store St., Victoria
Reliance Foundry Company Limited	149 .. 4th Avenue W., Vancouver
Ross and Howard Iron Works Co. Ltd.	ft. Woodland Drive, Vancouver
Terminal City Iron Works, Ltd.	1909 Franklin St., Vancouver
Van Wyck's Welding and Stove Works	2157 Main St., Vancouver
Victoria Foundry & Metals Ltd.	2426 Quesnel St., Victoria
Victoria Machinery Depot Co. Ltd.	33 Dallas Road, Victoria
Western Foundry Co.	1416 Franklin St., Vancouver

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