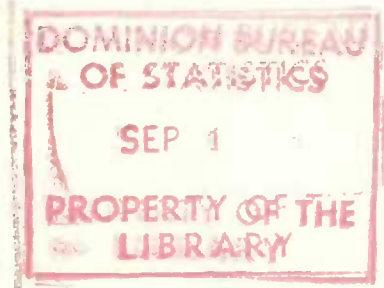


CATALOGUE No.

41-210

ANNUAL

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THE IRON CASTINGS INDUSTRY

1958

Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division

August, 1960
6523-517

Price: 50 cents

PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Iron and Steel Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A — Annual

M — Monthly

S.C. — Special Compilation

Catalogue number	Title	Price
41-201	Iron and Steel Products — General Review (A).....	.50
42-202	The Agricultural Implements Industry (A).....	.50
41-205	The Boilers and Plate Work Industry (A).....	.50
41-207	The Bridge Building and Structural Steel Industry (A)25
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41-210	The Iron Castings Industry (A)50
41-203	The Primary Iron and Steel Industry (A)75
41-213	The Sheet Metal Products Industry (A)50
41-216	The Wire and Wire Goods Industry (A)50
41-217	The Miscellaneous Iron and Steel Products Industry (A)50
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41-001	Primary Iron and Steel (M)	per year 3.00
41-002	Steel Ingots and Pig Iron (Preliminary) (M).....	per year 1.00
41-003	Production of Pig Iron and Steel (M)	per year 1.00
41-004	Iron Castings and Cast Iron Pipes and Fittings (M)	per year 1.00
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41-006	Steel Wire and Specified Wire Products (M).....	per year 1.00
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Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1958, are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies

for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished

goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- ^P preliminary figures.

THE IRON CASTINGS INDUSTRY

1958

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 Agricultural Implements Industry which is reviewed in a separate bulletin. Similarly, some stove manufacturers operated iron foundries but they have been classified to the Heating and Cooking Apparatus Industry which is covered in a separate report.

In 1958 there were 189 establishments in the Iron Castings Industry, distributed by provinces as follows: Ontario, 86; Quebec, 51; British Columbia, 17; Alberta, 11; Manitoba, 7; Saskatchewan, 6; Nova Scotia, 5; New Brunswick, 3; Newfoundland, 2 and Prince Edward Island, 1.

Factory shipments from these works were valued at \$253,444,707 and they employed 15,081 persons, paid out \$61,177,434 for salaries and wages, \$4,471,283 for fuel and electricity and \$132,575,064 for manufacturing materials.

Tables 1 to 4 and 9 to 15 of this report are for the Iron Castings Industry only. Tables 5 to 8 give the total output in Canada, from all industries, of iron and steel pipe and tubing, miscellaneous iron castings, hydrants and valves.

**TABLE 1. Principal Statistics of the Iron Castings Industry,¹ Significant Years, 1929-58
and by Provinces, 1957 and 1958**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ²	Gross selling value of products ²
	number				dollars		
1929	336	23,443	30,854,654	2,581,003	35,994,441	52,999,702	91,575,146
1933	327	11,111	9,816,895	1,130,725	8,053,094	15,013,528	24,197,347
1937	231	12,164	14,333,923	1,505,625	17,091,230	23,316,989	41,913,753
1939	194	9,635	11,190,871	1,115,615	12,273,647	18,956,569	32,345,831
1942	201	16,867	28,671,888	2,289,356	30,330,276	48,721,977	81,341,609
1946	219	16,925	31,381,935	2,346,480	27,546,850	52,384,740	82,278,070
1949	231	18,339	46,165,355	3,117,227	55,315,454	74,880,824	133,313,505
1954	202	13,748	47,535,297	2,826,611	61,661,101	76,670,172	139,904,793
1955	201	15,266	55,273,998	3,109,453	84,452,041	97,595,101	182,906,534
1956	199	17,361	66,815,656	4,184,022	123,391,722	122,732,230	244,028,587
1957							
Newfoundland	7	127	401,101	19,871	357,207	520,619	881,038
Prince Edward Island							
Nova Scotia							
New Brunswick							
Quebec							
Ontario							
Manitoba							
Saskatchewan							
Alberta	11	571	2,260,927	104,041	10,527,346	5,855,373	15,246,240
British Columbia	19	731	3,362,121	165,233	8,954,946	5,802,282	14,683,851
Canada	201	16,777	67,255,724	4,482,447	142,250,365	133,477,902	276,048,007

See footnotes at end of table.

**TABLE 1. Principal Statistics of the Iron Castings Industry,¹ Significant Years, 1929-58
and by Provinces, 1957 and 1958 — Concluded**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ²	Gross selling value of products ²
1958	number		dollars				
Newfoundland	2	165	507,679	31,057	389,264	722,753	1,146,310
Prince Edward Island	1						
Nova Scotia	5						
New Brunswick	3	108	280,062	15,230	344,805	452,830	821,393
Quebec	51	3,595	14,030,682	867,114	19,686,201	22,707,796	44,301,526
Ontario	86	9,515	39,284,749	3,173,570	94,033,885	74,831,392	173,635,775
Manitoba	7	398	1,477,247	51,209	1,270,526	2,740,389	4,047,513
Saskatchewan	6	266	1,024,481	73,787	5,983,958	3,731,156	9,639,231
Alberta	11	528	2,177,627	137,234	7,527,907	5,718,502	12,560,221
British Columbia	17	506	2,394,907	122,082	3,338,518	4,057,604	7,292,738
Canada	189	15,081	61,177,434	4,471,283	132,575,064	114,962,422	253,444,707

¹ Included Heating and Cooking Apparatus prior to 1935.

² Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouses.

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 2. Inventories,¹ 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland	246,990	14,862	55,175	317,027
Prince Edward Island				
Nova Scotia				
New Brunswick	62,599	7,558	3,000	73,157
Quebec	5,850,203	4,274,607	6,458,429	16,583,239
Ontario	25,608,843	6,065,787	12,482,665	44,157,295
Manitoba	203,591	8,196	333,848	550,635
Saskatchewan	400,542	138,072	958,029	1,496,643
Alberta	1,111,613	589,831	1,347,105	3,048,549
British Columbia	1,429,440	367,272	1,115,570	2,912,282
Canada	34,913,821	11,466,185	22,758,821	69,138,827
Closing:				
Newfoundland	218,633	15,870	50,931	285,434
Prince Edward Island				
Nova Scotia				
New Brunswick	76,563	1,030	1,000	78,593
Quebec	5,136,503	3,296,426	6,396,195	14,829,124
Ontario	16,926,914	4,360,962	12,590,562	33,878,438
Manitoba	208,690	1,035	360,620	570,345
Saskatchewan	854,398	50,734	1,195,037	2,100,169
Alberta	1,392,850	555,458	2,204,900	4,153,208
British Columbia	741,663	279,812	1,428,496	2,449,971
Canada	25,556,214	8,561,327	24,227,741	58,345,282

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

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized result for the Iron Castings Industry for the year under review are shown in the above table.

(c) The opening inventory for 1958 does not necessarily agree with the closing inventory for 1957 because of the addition of new plants, the transfer of plants to other industries, and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Factory Shipments by Firms in the Iron Castings Industry, 1957 and 1958

Product	1957		1958	
	Quantity shipped	Value of shipments	Quantity shipped	Value of shipments
	tons	\$	tons	\$
Commercial castings (sold as such):				
Aluminum	252	412,376	294	385,956
Grey iron	116,863	31,421,136	104,671	26,396,666
Malleable iron	21,623	8,421,940	19,463	7,544,052
Brass and bronze	408	595,789	427	589,363
Pipe, tubing and fittings, iron and steel	794,721	176,083,925	755,647	166,340,179
Pipe fittings (except iron and steel) and other plumbers' goods (other than valves) .....	..	3,181,222	..	3,890,134
Heating and cooking apparatus (stoves, furnaces, etc.) .....	..	3,115,449	..	3,412,679
Machinery and parts .....	..	6,743,060	..	4,324,526
Valves (iron, steel, brass and bronze), including radiator valves .....	..	10,836,341	..	9,994,220
All other products .....	...	34,492,122	...	29,633,741
Receipts from custom work and repairs .....	...	744,647	...	933,191
Totals .....	...	276,048,007	...	253,444,707

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, iron and steel pipe and tubing, hydrants and valves.

TABLE 4. Materials Used in the Iron Castings Industry, 1957 and 1958

Material		1957		1958	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Castings (rough and semi-finished received from foundry):					
Iron (gray and malleable)	ton	2,984	1,028,028	2,943	1,014,843
Steel	"	767	596,433	656	484,659
Pig iron, all grades	"	183,733	11,109,264	136,865	8,521,063
Steel (except alloy steel):					
Billets and bars	"	88,379	10,424,431	96,768	10,836,368
Plates (3/16 in. and thicker) (excluding plate for pipes and tubes)	"	2,116	357,965	1,997	366,440
Sheets (under 3/16 in.):					
Plain (other than for pipes and tubes)	"	2,397	368,505	3,022	470,369
Galvanized	"	135	29,787	141	29,835
Tinplate	"	3	1,050	4	1,100
Plate, sheet and strip, hot or cold rolled for pipes and tubes	"	561,064	69,535,834	491,129	63,565,911
Strip (other than for pipes and tubes)	"	351	62,737	333	61,032
Structural shapes, unfabricated (channels, angles, etc.)	"	2,132	401,583	1,618	309,740
Wire	"	4,618	636,763	3,302	474,155
Alloy steel in all forms:					
Alloy steel (other than stainless and tool steel) .....	..	..	832,647	..	641,644
Stainless .....	..	..	225,985	..	271,674
Tool steel .....	..	..	220,450	..	139,879
Scrap iron and steel:					
Purchased	ton	279,146	11,745,868	317,444	11,725,970
Own make	"	20,378	745,856	14,634	457,891
Pipe and fittings, iron and steel .....	..	..	5,683,071	..	4,329,890
Other iron and steel .....	..	..	593,849	..	725,580
Ferro-alloys .....	..	..	1,246,773	..	1,292,450
Non-ferrous metals in all forms:					
Aluminum:					
Castings	pound	153,995	58,630	58,223	29,585
Sheet	"	23	19	17,970	9,430
Other forms	"	688,533	209,771	765,763	241,792
Brass and bronze	"	6,266,523	2,169,407	5,390,865	1,674,245
Copper:					
Sheet	"	4,399	2,222	4,874	3,090
Wire	"	19,963	6,981	2,700	490
Other forms	"	238,021	78,165	136,358	45,542

TABLE 4. Materials used in the Iron Castings Industry, 1957 and 1958 - Concluded

Material		1957		1958	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Lead	pound	92,899	14,262	60,261	8,164
Nickel	"	1,212,201	889,596	944,799	687,137
Tin	"	6,286	6,372	4,035	4,154
Zinc	"	7,795,676	976,750	8,016,116	830,355
Babbitt metal and solders	"	45,020	21,422	35,178	17,239
Other non-ferrous metals	"	..	115,975	..	189,670
Other materials and supplies:					
Paints and varnishes .....		..	167,179	..	212,650
Foundry coke (used in cupola)	ton	88,745	2,768,129	77,424	2,600,936
Foundry sands (including core and moulding sands)	"	122,279	965,124	109,359	907,705
Plumbago and graphite	pound	2,200,805	132,845	660,948	58,562
Lumber	M ft. b.m.	2,813	271,038	2,562	254,275
Firebrick and cupola blocks .....		..	418,798	..	395,913
Fireclay	ton	5,860	108,747	6,665	125,611
Core oil	Imp. gal.	148,909	178,750	127,518	160,636
Sulphuric acid, 100%	pound	6,781,706	96,762	6,349,430	100,982
Shipping containers .....		..	990,451	..	870,412
All other material .....		..	15,756,091	..	17,425,996
Totals .....		...	142,250,365	...	132,575,064

TABLE 5. Factory Sales of Iron and Steel Pipe and Tubing, 1957 and 1958 (from All Industries)

	1957	1958
Cast iron soil pipe and fittings	66,000	71,000
Cast iron water pipe and fittings	12,540,000	13,632,000
Cast iron pipe fittings, all other, including flanges and flange fittings	96,000	130,000
Malleable iron pipe fittings of all kinds, including railing fittings	14,228,000	19,113,000
Steel pipe and tubing	9,900	10,400
Steel pipe fittings, all kinds	4,320,000	4,149,000
Steel pipe, riveted or welded:	8,500	7,800
Stainless steel	6,439,000	5,851,000
Other steel	612,400	537,900
Culvert pipe formed from steel sheets	132,178,000	117,805,000
	13,600	13,300
	10,216,000	8,924,000
	1,000	700
	2,503,000	1,232,000
	6,900	12,200
	2,367,000	3,577,000
	56,100	59,600
	18,786,000	19,634,000
Total value	\$ 203,577,000	193,917,000

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. 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 1958 there were about 400 operating foundries distributed across Canada. In 1958 these foundries used 252,000 net tons of pig iron, 605,000 net tons of scrap iron and 142,000 net tons of cupola coke. Production of iron castings totalled 724,000 tons.

TABLE 6. Total Production of Iron Castings and Materials charged to Cupolas, 1956-58

	1956	1957	1958
Pig iron used net ton	385,000	309,000	252,000
\$	22,392,000	18,567,000	15,410,000
Scrap iron and steel used net ton	690,000	598,000	605,000
\$	29,143,000	24,875,000	23,058,000
Coke used in cupolas or melting furnaces net ton	182,000	170,000	142,000
\$	5,627,000	5,404,000	4,713,000
Iron castings made (whether for sale or for own use):			
Grey and white iron castings ¹ (except pipe and fittings) net ton	669,000	561,000	468,000
Malleable iron (except fittings) "	44,000	45,000	36,000
Cast iron pipe and fittings "	217,000 ²	175,000 ²	212,000 ²
Malleable iron pipe fittings "	8,000 ²	9,000 ²	8,000 ²
Total castings "	938,000	790,000	724,000

¹ Compiled from data submitted by the 200 iron foundries which report monthly and which, it is estimated, account for about 95 per cent of the total production. These figures have been expanded to 100 per cent.

² Factory shipments.

TABLE 7. Factory Shipments of Hydrants, 1954-58 (from All Industries)

Year	Number	Selling value of factory shipments
		\$
1954	10,497	1,597,000
1955	12,494	1,933,000
1956	11,863	2,051,000
1957	10,193	1,814,000
1958	12,095	2,163,000

TABLE 8. Factory Shipments of Valves, 1957 and 1958 (from All Industries)

Kind	Selling value of factory shipments	
	1957	1958
	dollars	
Iron body (gate, globe, check, etc.)	11,070,000	8,715,000
Steel, including alloy steel (gate, globe, check, etc.)	5,996,000	5,826,000
Brass or bronze (gate, globe, check, etc.)	6,744,000	6,405,000
Radiator valves (all types)	766,000	667,000
Corporation brass (main and curb stops, etc.)	1,536,000	1,953,000
Valves, other	3,065,000	2,234,000

TABLE 9. Principal Statistics of the Iron Castings Industry in Canada, classified according to Type of Ownership, 1957 and 1958

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1957					
Individual ownership	36	250	640,061	629,435	1,560,992
Partnerships	17	154	507,611	308,818	871,380
Incorporated companies	148	16,373	66,108,052	141,312,112	273,615,635
Totals	201	16,777	67,255,724	142,250,365	276,048,007
1958					
Individual ownership	30	200	480,456	461,313	1,143,448
Partnerships	14	139	472,610	326,557	836,311
Incorporated companies	145	14,742	60,224,368	131,787,194	251,464,948
Totals	189	15,081	61,177,434	132,575,064	253,444,707

TABLE 10. Principal Statistics of the Iron Castings Industry in Canada, grouped according to Selling Value of Factory Shipments 1957 and 1958

Establishments reporting factory shipments	Establish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1957					
Under \$10,000	14	19	33,900	25,000	88,691
\$10,000 to \$24,999	18	64	139,943	115,086	302,669
\$25,000 " \$49,999	19	147	423,152	200,830	745,192
\$50,000 " \$99,999	25	318	903,945	600,484	1,836,482
\$100,000 " \$199,999	21	469	1,475,002	988,973	2,986,597
\$200,000 " \$499,999	39	1,543	5,194,896	4,361,501	12,306,596
\$500,000 " \$999,999	27	1,788	6,679,646	7,574,536	17,765,428
\$1,000,000 " \$4,999,999	24	4,405	17,565,985	24,676,375	52,360,840
\$5,000,000 and over	14	7,981	34,634,921	103,707,580	187,655,512
Head offices	—	43	204,334	—	—
Totals	201	16,777	67,255,724	142,250,365	276,048,007
1958					
Under \$10,000	7	16	32,580	16,615	47,592
\$10,000 to \$24,999	16	54	124,450	93,785	259,174
\$25,000 " \$49,999	14	95	220,758	156,539	501,383
\$50,000 " \$99,999	28	317	977,176	707,560	1,959,834
\$100,000 " \$199,999	21	455	1,497,389	964,039	2,977,491
\$200,000 " \$499,999	43	1,625	5,660,334	4,947,343	13,559,710
\$500,000 " \$999,999	20	1,252	4,750,853	5,980,824	13,846,280
\$1,000,000 " \$4,999,999	28	5,156	20,544,180	26,507,579	61,036,956
\$5,000,000 and over	12	6,101	27,308,626	93,200,780	159,256,287
Head offices	—	10	61,088	—	—
Totals	189	15,081	61,177,434	132,575,064	253,444,707

TABLE 11. Employees and their Earnings in the Iron Castings Industry, 1957 and 1958

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
Newfoundland	14	8	105	—	127	101,000	300,101	401,101
Prince Edward Island								
Nova Scotia								
New Brunswick	13	9	90	4	116	85,835	193,981	279,816
Quebec	573	183	3,082	94	3,932	3,343,843	11,599,723	14,943,566
Ontario	1,278	453	8,844	148	10,723	8,592,285	35,269,097	43,861,382
Manitoba	52	15	340	—	407	280,302	1,182,722	1,463,024
Saskatchewan	41	11	118	—	170	271,421	412,366	683,787
Alberta	103	20	445	3	571	513,524	1,747,403	2,260,927
British Columbia	85	32	609	5	731	689,205	2,672,916	3,362,121
Canada	2,159	731	13,633	254	16,777	13,877,415	53,378,309	67,255,724
1958								
Newfoundland	16	9	140	—	165	110,389	397,290	507,679
Prince Edward Island								
Nova Scotia								
New Brunswick	11	8	85	4	108	79,019	201,043	280,062
Quebec	528	162	2,812	93	3,595	3,225,891	10,804,791	14,030,682
Ontario	1,231	446	7,698	140	9,515	8,460,879	30,823,870	39,284,749
Manitoba	56	16	326	—	398	293,453	1,183,794	1,477,247
Saskatchewan	42	11	208	5	266	345,250	679,231	1,024,481
Alberta	107	24	395	2	528	641,055	1,536,572	2,177,627
British Columbia	80	28	398	—	506	674,509	1,720,398	2,394,907
Canada	2,071	704	12,062	244	15,081	13,830,445	47,346,989	61,177,434

TABLE 12. Production Workers, by Months, 1958

Month	Establishments reporting monthly detail ¹		Establishments not reporting monthly detail ¹		All establishments		
	Male	Female	Male	Female	Male	Female	Total
	number						
January	11,946	252					
February	11,622	252					
March	11,782	247					
April	11,818	246					
May	11,716	243	308	—	12,024	243	12,267
June	12,019	243					
July	11,499	240					
August	11,316	238					
September	11,472	193					
October	11,868	229					
November	12,282	251					
December	12,000	261					
Average ²					12,062	244	12,306

¹ The number of production workers by months was generally collected only for establishments reporting value of shipments of \$100,000 and over. For smaller establishments, only the number employed during the last pay period of May, 1958 was collected.

² The average for establishments generally reporting shipments of less than \$100,000 was estimated by using average annual earnings data from the large establishments in conjunction with reported payrolls for the small establishments.

TABLE 13. Capital and Repair Expenditures in the Iron Castings Industry, 1954-58

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery and equipment		Con-struction	Machinery and equipment		
	thousands of dollars						
1954	1, 134	4, 406	5, 540	714	5, 198	5, 912	11, 452
1955	1, 590	5, 236	6, 826	720	5, 525	6, 245	13, 071
1956	8, 292	20, 292	28, 584	981	7, 312	8, 293	36, 877
1957	5, 158	16, 116	21, 274	1, 031	7, 375	8, 406	29, 680
1958 ^P	2, 199	10, 101	12, 300	748	5, 404	6, 152	18, 452

TABLE 14. Fuel and Electricity used in the Iron Castings Industry, 1958

Kind	Quantity	Value at factory
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal (a) From Canadian mines	ton	8,951
(b) Imported	"	28,419
Sub-bituminous coal (from Alberta mines only)	"	30
Anthracite coal	"	2,085
Lignite-coal	"	5
Coke	"	3,690
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	529,198
Fuel oil including kerosene or coal oil	"	11,509,956
Wood (cords of 128 cubic feet of piled wood	cord	914
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	114,034
(b) Other manufactured gas	M cu. ft.	617,508
(c) Natural gas	"	382,819
Other fuel .....		...
Electricity purchased	kwh.	152,772,043
Steam purchased .....		..
2. Establishments not reporting commodity detail: ¹		
Total cost of fuel .....	...	66,442
Electricity purchased .....	..	26,602
3. All establishments:		
Total cost of fuel .....	...	2,745,870
Total cost of electricity .....	...	1,725,413
Total cost of fuel and electricity .....	...	4,471,283

¹ Data on the quantity and value of the different kinds of fuel and on the quantity of electricity purchased were generally not collected for establishments reporting value of shipments of less than \$100,000. Only the total cost of fuel and the total cost of electricity were collected for these establishments.

TABLE 15. Total Horsepower Rating of Power Equipment in Use or Available for Use in the Iron Castings Industry at the end of 1958

Type of equipment	Driving generators	Not driving generators
	horsepower	
A. Prime movers:		
Steam engines	200	395
Diesel engines	298	1,273
Gasoline, gas and oil engines, other than diesel engines	457	4,103
Totals	955	5,771
B. Electric motors (one-quarter horsepower and over)	—	114,821

Directory of Firms Included in the Iron Castings Industry, 1958

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
Newfoundland:	
Corner Brook Foundry & Machine Co. Ltd.	Corner Brook
United Nail & Foundry Co. Ltd.	Hamilton Ave., St. John's
Prince Edward Island:	
Parker, H.W. & Sons	Georgetown
Nova Scotia:	
Darmouth Iron Foundry	44 Maple St., Dartmouth
Hanright Foundry Co.	10 Highfield St., Amherst
Hillis and Sons, Ltd.	160 Kempt Rd.
Matheson, I. & Co. Limited	North Provost St., New Glasgow
New Glasgow Foundry	New Glasgow
New Brunswick:	
Courtenay Iron and Brass Foundry	169 Rothesay Ave., Saint John
McLennan Engineering Works Ltd.	Campbellton
Moncton Foundry & Machine Co. Limited	Victory Ind. Centre, Moncton
Quebec:	
Acton Nipple Inc.	Actonvale
Bergeron M. Lucien A.	Ste. Julie Station
Canada Iron Foundries, Limited	227 St. Maurice St., Three Rivers
Canadian Tube and Steel Products, Limited	5870 St. Patrick St., Montreal
Crane, Limited	3800 St. Patrick St., Montreal
Diversified Metallurgical Ind. Ltd.	Dunham
Fonderie Binette Inc.	Laurierville
Fonderie Boisclair	St. Gabriel de Brandon
Fonderie Fortin Enr.	Waterloo
Fonderie Laroche Enr.	St-Jérôme
Fonderie Napierville Enr.	Napierville
Fonderie Savoie	Ste-Marie de Beauce
Fonderie St. Hyacinthe Ltd.	2925 Nelson St., St. Hyacinthe
Fonderie St. Louis	St. Louis de Bonsecours
General Foundry Co.	Windsor, Que.
Grand'Mère Foundry Ltd.	800 C.N.R. Ave., Grand'Mère
La Compagnie Dussault et Lamoureux	7750 Brouillette, St-Hyacinthe-Annete
La Fonderie Beloeil, Ltée	Beloeil Station
La Fonderie Canadienne Enr.	374 St. Jacques St., St. Jean
La Fonderie Ste. Croix Ltée	Ste. Croix
La Fonderie de Thetford	700 - A. Notre-Dame Nord, Thetford Mines
La Fonderie Després	Montmagny Station
La Fonderie Magog, Ltd.	Magog
La Fonderie Ouellet Enr.	St. Léonard D'Aston
La Fonderie Paquette Inc.	325 St. Ignace St., Laprairie
La Fonderie St. Maurice Enr.	Cap-de-la-Madeleine
La Fonderie St. Romuald, Enr.	58, rue Saxe, St. Romuald
La Fonderie de Sully	Sully
Laroche & Frères, Ltée	Pont Rouge
Lauzon Brass & Alum. Foundry Reg'd, The	30 rue Carrier, Lauzon
Lavoie, Euchariste, Fils Enr.	Baie St-Paul
Lefebvre, Jean Charles, (Fonderie St-Placide)	St-Placide
Légaré Foundry Limited	172 Short St., Sherbrooke
Les Industries Roy Ltée	Montmagny Station
Mace Foundry Co.	1450 Gladstone Ave., Montreal
Marquette Foundry	8000 - 14th Ave., Ville St. Michel
Montreal Foundry Limited	1249 Conde St., Montreal
Monsarrat Machinery and Foundries Ltd.	Rivière-du-Loup
Paul Bros. Foundry, Limited	660, rue Poupard, Laprairie
Pont Viau Foundry Ltd.	60 St. Hubert St., Pont Viau
Quebec Iron Foundries Ltd.	88 Foundry Ave. Mont. Joli
Quebec Iron Foundries Ltd.	Noranda
Rapid Foundry	Ste. Philomène
Rigaud Foundry	2 St-Anselme, Rigaud
St. Jerome Industries Ltd.	St. Jérôme
Shawinigan Foundries, Limited	Shawinigan Falls
Steel Company of Canada, Limited	4110 St. Ambroise St., Montreal
Trottier Incorporée	Ste-Anne-de-la-Pérade
Union Foundry Limited	431 St. Luke St., Granby
Viau, M.L., et Fils, Ltée	St. Joseph St., St. Jérôme
Vulcan Foundry Inc.	14, rue Napoléon, Victoriaville

Directory of Firms included in the Iron Castings Industry, 1958 — Continued

Name of firm	Location of plant
Ontario:	
Alloy Foundry Co. Ltd.	Merrickville
Anthes-Imperial Co. Ltd.	Berryman Ave., St. Catharines
Auto Specialties Mfg. Co. (Canada) Ltd.	614 Tecumseh Rd. E., Windsor
Barco Mfg. Co. of Canada, Ltd.	315 Devonshire Rd., Walkerville
Barton Tubes Limited	2170 Queensway Dr., Burlington
Bell City Foundry (Brantford) Ltd.	411 West St., Brantford
Benn Iron Foundry	Mason St., Wallaceburg
Bibby Foundry Ltd.	Beverley St., Galt
Bock, A.E., Foundry Co.	Swan St., Ayr
Bowmanville Foundry Company Limited	Scugog St., Bowmanville
Brown Foundry Ltd.	Morrisburg
Canada Iron Foundries Limited	Burlington St. & Kenilworth Ave., Hamilton; Stuart & Caroline Sts., Hamilton; 171 Eastern Ave., Toronto
Canada Iron Foundries Ltd. (National Iron Division)	324 Cherry St., Toronto
Canada Valve & Hydrant Co., Limited	44 Holme St., Brantford
Canadian Coupling & Fittings Ltd.	Simcoe
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto
Central Foundry	Hespeler
Cobalt Foundry Limited	Ferland Ave., Cobalt
Crawford Fittings (Canada) Ltd.	1238 St. Paul Ave., Niagara Falls
Crawford Machine & Foundry Ltd.	100 Wilson St., Woodstock
Crowe Foundry Limited	Sheffield St., Hespeler
Cunningham Foundry & Machine Co. Ltd.	Berryman Ave., St. Catharines
Dart Union Co. of Canada Ltd.	11 Charlotte St., Toronto
Davidson Foundry	16 Hamilton Ave., Ottawa
Domestic Foundry	1595 Crawford Ave., Windsor
Eureka Foundry & Manufacturing Co. Limited	Tecumseh St., Woodstock
Fairbank Foundry	52 Clarkson Ave., Toronto
Fergusson, J.R., Company	Dundas
Ferrous Products Ltd.	21 Buckingham St., Toronto 18
Fittings Limited	135 Bruce St., Oshawa
Foley-Saco Foundry Ltd.	100 St. Paul St., Belleville
Fortune Valve Co. Ltd.	42 James St. N., Hamilton
Galt Malleable Iron Limited	60 Kerr St., Galt
General Casting Company	315 Grey St., Brantford
Gies, Philip, Foundry Ltd.	36 Water St. S., Kitchener
Grinnell Company of Canada, Limited	2440 Dundas St. W., Toronto 9
Guelph Engineering Co. Limited, The	10 Kingsmill Ave., Guelph
Hamilton Foundry Co. Ltd.	33 Clinton St., Hamilton
Hastings & Sons Foundry Ltd.	10 Pine St., Stratford
Holmes Foundry Company Limited	Exmouth St., Sarnia
Hopper Foundry	Washington St., Forest
Imbleau, H., & Son	11 Bridge St., Renfrew
International Malleable Iron Co. Ltd.	200 Beverley St., Guelph
James Bros. Hardware Ltd.	Beckwith St., Perth
Keleher Foundry Co.	Victoria Road, Guelph
Kent Foundry Ltd.	Richmond St., Chatham
Ladish Co. of Canada Ltd.	Park Rd. N., Brantford
Lawson, Thos., and Sons, Ltd.	160 Fleet St., Ottawa
Lincoln Foundry Ltd.	65 St. Paul Crescent, St. Catharines
Link-Belt Limited	13 Church St., Elmira
London Concrete Machinery Co.	247 Colborne St. W., Brantford
Mannesmann Tube Co. Ltd.	Sault Ste. Marie
Manning, Maxwell & Moore of Canada Ltd.	200 Avenue Road, Galt
McCoy Foundry Co. Ltd.	67 Bay St. N., Hamilton
McIntyre & Taylor, Limited	505 Queen St. W., Toronto
McLean Underfeed Stoker Co. Limited	West Hill, Toronto
Marshall, A., Foundry	940 Assumption St., Windsor
Massey-Ferguson Ltd.	Greenwich St., Brantford
Muskoka Foundry Limited	Shier St., Bracebridge
New England Valve Corp. of Can. Ltd.	Seneca Ave., Port Credit
Niagara Foundry Company Ltd., The	747 Buttery Ave., Niagara Falls
Oakton Products Ltd.	102 Crockford Blvd., Scarboro
Ontario Malleable Iron Co. Ltd.	Prospect St., Oshawa
Page-Hersey Tubes, Ltd.	Dain Ave., Welland
Pavette, P., Co. Limited	Nelson St., Penetanguishene
Shantz, P.E., Foundry	Fountain St., Preston
Smiths Falls Malleable Castings Limited	22 Bay St., Smiths Falls
Sonco Steel Products Ltd.	233 Sterling Rd., Toronto
Standard Foundry and Supply Co. Ltd.	840 Walker Road, Windsor
Standard Tube & T.I. Ltd.	Drew & Given Sts., Woodstock
Taylor Forge & Pipe Works of Canada Ltd.	777 Beach Rd., Hamilton
Tomlinson, T., Foundry Co. Limited	352 Front St. E., Toronto

Directory of Firms included in the Iron Castings Industry, 1958 — Concluded

Name of firm	Location of plant
Ontario—Concluded:	
Toronto Foundry Co. Limited	1884 Davenport Rd., Toronto
Tube Turns of Canada Ltd.	21 York St., Ridgeway
Tubular Steel Products Ltd.	97 Manville Rd., Toronto
Victoria Foundry Co. Ltd.	44 Booth St., Ottawa
Wabi Iron Works, Limited	New Liskeard
Walker Metal Products Limited	1511 Kildare Road, Windsor
Walkerton Foundry	Walkerton
Welland Iron and Brass Ltd.	130 Niagara St., Welland
Welland Tubes Ltd.	100 Church St., Toronto
Wells Foundry Limited	1250 Florence St., London
Woodside Machinist & Foundry Co.	173 Manitou St., Port Arthur
Wotherspoon, J.A., & Son Ltd.	Cross Ave., Oakville
Manitoba:	
Anthes-Imperial Co. Limited	Saskatchewan Ave., Winnipeg
Bell Foundry Co.	Sargent & King Edward Sts., St. James
Dominion Foundry Co.	Union & Watt St., Winnipeg
Eastern Machinery & Tool Mfg. Ltd.	493 Madison St., Winnipeg
Osborne Foundries Ltd.	580 Ebby St., Winnipeg
Peterson Foundry & Machine Works	120 Aberdeen Ave., Winnipeg
Thor Foundry Limited	796 Archibald St., St. Boniface
Saskatchewan:	
Acme Industries Ltd.	182 Wall St., Saskatoon
Blanchard Foundry Co. Ltd.	104—22nd Street W., Saskatoon
East, John, Iron Works Ltd.	125 Avenue C North, Saskatoon
Moose Jaw Foundry	High St. & 6th Ave., Moose Jaw
Prairie Pipe Mfg. Co. Ltd.	207 Brent Bldg., Regina
Prince Albert Foundry Company	17th and Central Sts., Prince Albert
Alberta:	
Alberta Bend Ltd.	12230—66 St., Edmonton
Alberta Phoenix Tube & Pipe Ltd.	75 St. & 68 Ave., Edmonton
Anthes-Imperial Co. Ltd.	Ogden Road, Calgary
Anthes-Imperial Co. Ltd.	9520—125th Avenue, Edmonton
Calgary Iron & Engineering Ltd.	410—9th Avenue E. Calgary
Crane Limited	58th Ave. & 2nd St. S.E., Calgary
Lethbridge Iron Works Co. Ltd.	120—1st Avenue S., Lethbridge
McAvity, T., & Sons (Western) Ltd.	Medicine Hat
Nichols Bros. Limited	10103—95th Street, Edmonton
Norwood Foundry Co. Ltd.	9111—111th Avenue, Edmonton
St. Paul Foundry Ltd.	St. Paul
British Columbia:	
Acme Iron Works	121 st Glen Drive, Vancouver
Associated Foundry Ltd.	4080 Nanaimo St., Vancouver
Canadian Valve Engineering Co.	1924 Franklin St., Vancouver
Canadian Western Pipe Mills Ltd.	Murray St. Port Moody
Cranbrook Foundry Company Limited	26 Cranbrook St., Cranbrook
Dobney Foundry Co. Ltd.	312—13th St., New Westminster
McLean and Powell Iron Works	398 W. 2nd Avenue, Vancouver
Mainland Foundry Company Ltd.	1707 Pandora St., Vancouver
Milbourne Foundry	852 River Road, Vancouver
Nye's Foundry Ltd.	503 Powell Street, Vancouver
Peach City Foundry	176 Estabrook St., Penticton
Reliance Foundry Company Limited	149—4th Avenue W., Vancouver
Ross and Howard Iron Works Co. Ltd.	Ft. Woodland Drive, Vancouver
S.P. & F. Foundry Ltd.	3780 Napier St., North Burnaby
Terminal City Iron Works, Ltd.	1909 Franklin St., Vancouver
Union Bay Foundry	Union Bay
Victoria Foundries Ltd.	622 Pembroke St., Victoria

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