CATALOGUE No.
41-226
ANNUAL

CANADA

IRON FOUNDRIES

1960

Formerly part of The Iron Castings Industry (Catalogue No. 41-210). Certain statistics have been transferred to two new publications, Steel Pipe and Tube Mills (Catalogue No. 41-220) and Miscellaneous Metal Fabricating Industries (Catalogue No. 41-228). See introductory text for details.

ANNUAL CENSUS
OF MANUFACTURES

Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Industry Division

August 1963
6523-517

Price: 50 cents

ROGER DUHAMEL, F.R.S.C., Queen's Printer and Controller of Stationery, Ottawa

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.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 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. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

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 1960 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 or 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 revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at $50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to $100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between $100,000-$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

[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*.

IRON FOUNDRIES
1960

Data presented in this report under the heading of Iron Foundries reflect implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics—see item "Standard Industrial Classification" in the Explanatory Notes section of this report. For statistical purposes the industry titled Iron Foundries in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing iron castings, including cast iron pipe and fittings.

In many instances, adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. A significant element in the shift in the case of the industry reviewed in this report was the transfer of establishments producing welded and seamless steel pipe and tubing to a new and separate industry titled Steel Pipe and Tube Mills. The revised series of statistics in accordance with the new S.I.C. is presented in Table 1.

There were 141 establishments classified to Iron Foundries in 1960; there being 3 in Newfoundland, 1 in Prince Edward Island, 4 in Nova Scotia, 2 in New Brunswick, 42 in Quebec, 64 in Ontario, 4 in Manitoba, 3 in Saskatchewan, 6 in Alberta, and 12 in British Columbia. Employees in this industry numbered 8,677; salaries and wages totalled $35,954,414; materials used in the manufacturing process cost $40,446,363; and factory shipments were valued at $97,685,520.

Note: 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.

TABLE 1. Principal Statistics, Iron Foundries, by Provinces, 1957-60

Year and province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture[1]	Selling value of factory shipments
	number		dollars				
1957							
Newfoundland	2	33	80,500	9,740	29,600		140,398
Prince Edward Island	1						
Nova Scotia	4	109	275,308	15,195	183,758		569,318
New Brunswick	3						
Quebec	52	1,988	6,580,748	432,952	8,605,432		19,478,352
Ontario	69	7,236	27,271,671	1,643,394	27,853,027		72,766,900
Manitoba	5	391	1,418,024	44,430	1,234,588	[2]	3,808,823
Saskatchewan	4	33	96,845	5,893	90,421		125,847
Alberta	5	164	605,448	17,383	459,301		1,635,305
British Columbia	16	454	1,902,432	60,936	1,094,057		4,053,407
Canada	**161**	**10,408**	**38,230,976**	**2,245,398**	**39,550,184**		**102,578,350**
1958							
Newfoundland	3	84	211,042	15,764	96,124		399,816
Prince Edward Island	1						
Nova Scotia	4	93	264,093	17,446	146,045		599,658
New Brunswick	2						
Quebec	46	1,818	6,238,958	403,649	8,794,717		19,908,741
Ontario	65	6,366	24,583,538	1,643,394	25,248,773		64,704,127
Manitoba	5	386	1,442,690	50,349	1,219,745	[2]	3,964,301
Saskatchewan	3	33	92,815	5,377	94,970		114,164
Alberta	5	217	885,053	48,046	1,680,281		4,000,595
British Columbia	14	353	1,618,551	55,880	887,080		3,632,767
Canada	**148**	**9,350**	**35,336,740**	**2,239,905**	**38,167,735**		**97,324,169**
1959							
Newfoundland	3	72	190,263	14,568	109,147		371,350
Prince Edward Island	1						
Nova Scotia	4	96	297,375	16,498	148,975		599,178
New Brunswick	2						
Quebec	45	2,063	7,739,554	560,135	13,258,523		24,819,548
Ontario	62	6,501	27,018,240	1,763,766	29,793,893		70,288,256
Manitoba	5	414	1,584,732	58,745	1,247,828	[2]	4,062,398
Saskatchewan	3	38	105,928	6,452	105,165		135,744
Alberta	5	239	992,398	51,687	1,549,529		4,508,398
British Columbia	12	395	1,857,747	62,390	1,095,415		4,505,310
Canada	**142**	**9,818**	**39,786,237**	**2,534,241**	**47,308,475**		**109,290,182**
1960							
Newfoundland	3	97	286,372	16,362	112,540	303,114	402,802
Prince Edward Island	1						
Nova Scotia	4	101	308,778	16,515	179,474	447,555	639,542
New Brunswick	2						
Quebec	42	1,764	6,843,371	426,039	10,529,922	11,263,916	22,525,478
Ontario	64	5,776	24,316,210	1,613,336	26,316,558	35,888,223	63,015,382
Manitoba	4	331	1,387,924	52,729	999,380	2,600,356	3,607,516
Saskatchewan	3	42	128,151	8,103	104,982	174,664	270,872
Alberta	6	213	961,619	53,635	1,303,691	2,226,973	3,836,213
British Columbia	12	353	1,721,989	56,782	900,016	2,425,213	3,387,715
Canada	**141**	**8,677**	**35,954,414**	**2,243,501**	**40,446,563**	**55,330,014**	**97,685,520**

[1] See note to text.
[2] The changeover to the new classification has delayed the recompilation of "Value added" figures for these years and same will not be available until the next issue of the report

TABLE 2. Inventories:[1] Iron Foundries, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland, Prince Edward Island	44,263	—	15,565	59,828
New Brunswick, Nova Scotia	55,222	16,821	50,513	122,556
Quebec	1,788,014	802,843	1,978,171	4,569,028
Ontario	3,722,125	1,716,094	4,314,062	9,752,281
Manitoba	449,730	2,655	448,610	900,995
Saskatchewan	94,101	3,160	6,568	103,829
Alberta	550,028	63,385	425,542	1,038,955
British Columbia	122,873	25,012	258,085	405,970
Canada	**6,826,356**	**2,629,970**	**7,497,116**	**16,953,442**
Closing:				
Newfoundland, Prince Edward Island	59,771	—	44,779	104,550
New Brunswick, Nova Scotia	56,186	9,754	61,582	127,522
Quebec	1,680,414	920,603	1,554,810	4,155,827
Ontario	3,480,917	1,948,609	4,884,282	10,313,808
Manitoba	308,881	3,812	492,402	805,095
Saskatchewan	31,910	3,265	23,340	58,515
Alberta	387,317	1,622	235,391	624,330
British Columbia	84,567	31,108	246,285	361,960
Canada	**6,089,963**	**2,918,773**	**7,542,871**	**16,551,607**

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

TABLE 3. Factory Shipments: Iron Foundries, 1960

Product	Quantity shipped	Value of factory shipments
	tons	$
Commercial castings (sold as such):		
Grey iron	119,972	30,362,685
Malleable iron	16,921	6,944,557
Non-ferrous castings:		
Aluminum	236	334,519
Copper alloy (brass, bronze, etc.)	389	550,026
Cast iron products (including grinding balls, ingot moulds, hydrants, etc. but excluding cast iron pipe and fittings)	..	12,800,423
Cast iron pipe and fittings	164,402	28,653,205
Malleable iron pipe fittings, all sizes	5,004	3,497,383
Machinery and parts	..	5,523,185
Plumbers brass fittings	..	208,404
Valves (iron, steel, brass and bronze)	..	1,295,294
All other products	..	7,039,397
Receipts from custom work and repairs	..	476,442
Total	...	**97,685,520**

Note: Data given in this table cover only the output of firms which were engaged chiefly in making commercial iron castings, cast iron pipe and cast iron fittings, and which have been classified to the Iron Foundries industry. Figures for castings, pipe and fittings shown in above table do not represent the total output for Canada as in each case, there was also a production in other industries. Supplementary tables have been added to show total production in Canada of these items—see Tables 5 and 6.

TABLE 4. Materials Used: Iron Foundries, 1960

Material		Quantity	Cost at plant
			$
Castings (rough and semi-finished received from foundry):			
Iron (gray and malleable)	ton	1,315	363,441
Steel	"	1,343	544,640
Pig iron, all grades	"	139,586	8,616,789
Steel (except alloy steel):			
Bars	"	1,598	301,554
Plates (3/16 in. and thicker)	"	2,162	473,631
Sheets (under 3/16 in.):			
Plain	"	76	17,617
Galvanized	"	61	14,496
Tinplate	"	5	1,300
Strip	"	138	21,029
Structural shapes, unfabricated (channels, angles, etc.)	"	385	78,567
Wire	"	58	14,430
Alloy steel in all forms:			
Alloy steel (other than stainless and tool steel)		..	48,167
Stainless		..	109,790
Tool steel		..	8,977
Scrap iron and steel:			
Purchased	ton	263,649	10,269,048
Own make	"	9,159	132,448
Pipe and fittings, iron and steel		..	41,798
Other iron and steel		..	937,772
Ferro-alloys		..	1,137,274
Non-ferrous metals in all forms:			
Aluminum:			
Castings	pound	9,388	12,163
Sheet	"	4,833	3,845
Other forms	"	333,841	87,232
Brass and bronze	"	1,359,299	537,824
Copper:			
Sheet	"	1,000	800
Other forms	"	103,123	40,287
Lead	"	27,701	3,786
Nickel	"	1,036,179	914,081
Tin	"	1,778	2,083
Zinc	"	985,798	127,843
Babbitt metal and solders	"	13,025	9,636
Other non-ferrous metals		..	173,147
Other materials and supplies:			
Paints and varnishes		..	100,913
Foundry coke (used in cupola)	ton	80,047	2,573,123
Foundry sands (including core and moulding sands)	"	112,357	860,004
Plumbago and graphite	pound	726,845	89,470
Lumber	M ft. b.m.	6,872	170,426
Firebrick and cupola blocks		..	296,350
Fireclay	ton	5,088	120,713
Core oil	Imp. gal.	123,122	146,579
Shipping containers		..	246,175
All other materials[1]		..	10,797,315
Total		...	**40,446,563**

[1] In 1960, no detailed information on materials used was collected from firms generally reporting value of shipments of less than $300,000. The total value of materials used by these firms was $1,557,209 and this amount is included in "All other materials".

TABLE 5. Total Production of Iron Castings and Materials charged to Cupolas, 1957-60

		1957	1958	1959	1960
Pig iron used	net ton	309,000	252,000	300,000	261,000
	$	18,567,000	15,410,000	17,789,000	15,291,000
Scrap iron and steel used	net ton	598,000	605,000	661,000	593,000
	$	24,875,000	23,058,000	26,096,000	22,749,000
Coke used in cupolas or melting furnaces	net ton	170,000	142,000	162,000	152,000
	$	5,404,000	4,713,000	5,392,000	4,925,000
Iron castings made (whether for sale or for own use):					
Grey and white iron castings[1] (except pipe and fittings)	net ton	561,000	468,000	605,000	525,000
Malleable iron (except fittings)	"	45,000	36,000	36,000	30,000
Cast iron pipe and fittings	"	175,000[2]	212,000[2]	206,000[2]	185,000
Malleable iron pipe fittings	"	9,000[2]	8,000[2]	9,000[2]	5,000
Total castings	"	**790,000**	**724,000**	**856,000**	**745,000**

[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 6. Factory Shipments of Cast Iron Pipe and Fittings, 1960 (from All Industries)

	Ton	$
Cast iron soil pipe:		
Under 6" inside diameter	29,895	5,304,098
6" inside diameter and over	8,996	1,725,323
Cast iron soil pipe fittings, all sizes	19,247	4,596,938
Cast iron water pipe and fittings, all sizes	116,157	16,881,213
Cast iron pipe fittings, other	10,336	4,200,425
Malleable iron pipe fittings, all sizes	5,004	3,497,383
Totals	**189,635**	**36,205,380**

TABLE 7. Principal Statistics classified according to Type of Ownership: Iron Foundries, 1957 and 1960

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1957					
Individual ownership	35	234	595,061	607,435	1,473,093
Partnerships	17	154	507,611	308,818	871,380
Incorporated companies	109	10,020	37,128,304	38,633,931	100,233,877
Totals	**161**	**10,408**	**38,230,976**	**39,550,184**	**102,578,350**
1960					
Individual ownership	23	159	367,506	325,209	826,733
Partnerships	11	90	351,422	214,079	750,103
Incorporated companies	107	8,428	35,235,486	39,907,275	96,108,684
Totals	**141**	**8,677**	**35,954,414**	**40,446,563**	**97,685,520**

TABLE 8. Principal Statistics grouped according to Selling Value of Factory Shipments: Iron Foundries, 1957 and 1960

Establishments reporting value of factory shipments	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1957					
Under $10,000	13	19	33,900	24,000	86,529
$ 10,000 to $ 24,999	16	61	132,943	98,086	272,916
25,000 " 49,999	18	146	396,687	195,335	704,721
50,000 " 99,999	24	302	858,945	578,484	1,748,583
100,000 " 199,999	20	468	1,473,903	886,360	2,849,218
200,000 " 499,999	31	1,355	4,534,036	3,115,874	9,632,134
500,000 " 999,999	19	1,360	5,070,545	5,019,312	12,656,265
1,000,000 " 4,999,999	14	3,337	13,086,290	11,567,872	33,663,248
5,000,000 and over	6	3,323	12,468,065	18,064,861	40,964,736
Head offices	—	37	175,662	—	—
Totals	**161**	**10,408**	**38,230,976**	**39,550,184**	**102,578,350**
1960					
Under $10,000	11	25	38,093	26,025	66,630
$ 10,000 to $ 24,999	9	41	90,373	47,404	158,133
25,000 " 49,999	14	91	235,648	202,944	538,052
50,000 " 99,999	21	238	770,374	458,775	1,559,888
100,000 " 199,999	19	393	1,368,823	769,781	2,676,400
200,000 " 499,999	30	1,219	4,596,723	3,039,283	9,701,854
500,000 " 999,999	17	1,207	5,156,727	4,132,165	11,662,872
1,000,000 " 4,999,999	16	3,533	14,894,156	15,500,584	38,098,265
5,000,000 and over	4	1,930	8,803,497	16,269,602	33,223,426
Totals	**141**	**8,677**	**35,954,414**	**40,446,563**	**97,685,520**

TABLE 9. Employees and their Earnings: Iron Foundries, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Newfoundland, Prince Edward Island	8	2	62	—	72	29,144	161,119	190,263
New Brunswick, Nova Scotia	9	8	79	—	96	76,347	221,028	297,375
Quebec	266	60	1,729	8	2,063	1,505,140	6,234,414	7,739,554
Ontario	632	227	5,499	143	6,501	4,587,372	22,430,868	27,018,240
Manitoba	59	17	337	1	414	332,184	1,252,548	1,584,732
Saskatchewan	8	2	28	—	38	31,940	73,988	105,928
Alberta	27	9	203	—	239	231,736	760,662	992,398
British Columbia	53	17	325	—	395	424,153	1,433,594	1,857,747
Canada	**1,062**	**342**	**8,262**	**152**	**9,818**	**7,218,016**	**32,568,221**	**39,786,237**
1960								
Newfoundland, Prince Edward Island	22	8	67	—	97	107,916	178,456	286,372
New Brunswick, Nova Scotia	10	9	82	—	101	78,458	230,320	308,778
Quebec	228	43	1,491	2	1,764	1,382,498	5,460,873	6,843,371
Ontario	623	202	4,832	119	5,776	4,525,547	19,790,663	24,316,210
Manitoba	48	18	265	—	331	304,544	1,083,380	1,387,924
Saskatchewan	9	1	32	—	42	32,633	95,518	128,151
Alberta	29	8	176	—	213	294,521	667,098	961,619
British Columbia	58	14	281	—	353	452,316	1,269,673	1,721,989
Canada	**1,027**	**303**	**7,226**	**121**	**8,677**	**7,178,433**	**28,775,981**	**35,954,414**

TABLE 10. Production Workers, by Months, 1960

Month	Establishments reporting monthly detail[1]	
	Male	Female
January	7,248	149
February	7,269	152
March	6,832	142
April	6,688	122
May	6,586	122
June	6,627	104
July	6,315	106
August	6,238	93
September	6,389	91
October	6,495	117
November	6,438	119
December	6,235	109
Average for establishments reporting monthly detail	6,644	118
Average estimated for small establishments[2]	582	3
Average for all establishments	7,226	121

[1] The number of production workers, by months, was collected only for establishments generally reporting value of shipments of $300,000 and over.

[2] For establishments generally reporting value of shipments of less than $300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 11. Fuel and Electricity Used: Iron Foundries, 1960

Kind		Quantity	Cost at plant
			$
1. Establishments reporting commodity detail:[1]			
Bituminous coal (a) From Canadian mines	ton	1,139	20,766
(b) Imported	"	28,463	416,431
Anthracite coal	"	2,151	26,808
Coke	"	2,551	65,062
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	328,336	113,726
Fuel oil including kerosene or coal oil	"	3,556,168	473,358
Wood	cord	957	8,218
Gas (a) Liquefied petroleum gases	Imp. gal.	85,455	13,521
(b) Natural gas	M cu. ft.	241,537	151,473
Other fuel		..	785
Electricity purchased	kwh.	68,468,135	781,581
2. Estimate for establishments for which no data were collected:[2]			
Cost of fuel and electricity		...	171,772
3. All establishments:			
Total cost of fuel and electricity		...	2,243,501

[1] Establishments generally reporting value of shipments of $300,000 and over.

[2] Establishments generally reporting value of shipments of less than $300,000.

Directory of Firms: Iron Foundries, 1960

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
Trask Foundry Ltd	Blackmarch Rd., St. John's
Prince Edward Island:	
Parker, H.W. & Sons	Georgetown
Nova Scotia:	
Dartmouth Iron Foundry	44 Maple St., Dartmouth
Hanright Foundry Co.	10 Highfield St., Amherst
Hillis and Sons, Ltd.	160 Kempt Rd., Halifax
New Glasgow Foundry	391 Glasgow St., New Glasgow
New Brunswick:	
Courtenay Iron and Brass Foundry	169 Rothesay Ave., Saint John
McLennan Engineering Works Ltd.	Water St. W., Campbellton
Quebec:	
Bergeron M. Lucien A.	St. Julie Station
Canada Iron Foundries, Limited	227 St. Maurice St., Three Rivers
Fonderie Binette Inc.	Laurierville
Fonderie Fortin Enr.	Waterloo
Fonderie Laroche Enrg.	St-Jérôme
Fonderie Napierville Enrg.	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	95 A Main St. Windsor Mills
Grand'Mère Foundry Ltd.	800 C.N.R. Ave., Grand'Mère
La Compagnie Dussault et Lamoureux	350 - 18th Ave., De L'Hotel Dieu, St. Hyacinthe
La Fonderie Begin & Gingras Enrg.	Centre Industriel # 5, Quebec
La Fonderie Beloeil, Ltée	Beloeil Station
La Fonderie Canadienne Enrg.	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.	601 Champlain St., Magog
La Fonderie Ouellet Enrg	St. Léonard D'Aston
La Fonderie Paquette Inc	325 St. Ignace St., Laprairie
La Fonderie St. Romuald, Enrg.	58, rue Saxe, St. Romuald
La Fonderie de Sully	Sully
Laroche, Zepherin, & Fréres Ltée	Pont Rouge
Lauzon Brass & Alum, Foundry Reg'd, The	50 rue Carrier, Lauzon
Lavoie, Euchariste, Fils Enrg.	8 rue Racine, Baie St. Paul
Lefebvre, Jean Charles, (Fonderie St-Placide)	St-Placide
Légaré Foundry Limited	172 Short St., Sherbrooke
Mace Foundry Co.	1450 Gladstone Ave., Montreal
Montreal Foundry Limited	1249 Condé St., Montreal
Monsarrat Machinery and Foundries Ltd.	Rivière-du-Loup
Paul Bros. Foundry, Limited	660 rue Poupart, 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
Rigaud Foundry	2 St-Anselme, Rigaud
St. Jerôme Industries Ltd.	St. Jérôme
Shawinigan Foundries, Limited	Shawinigan Falls
Trottier Incorporée	Ste-Anne-de-la-Pérade
Union Foundry Limited	431 St. Luke St., Granby
Viau, M.I., et Fils, Ltée	St. Joseph St., St. Jérôme
Vulcan Foundry Inc.	14 rue Napoléon, Victoriaville

Directory of Firms: Iron Foundries, 1960 – Continued

Name of firm	Location of plant
Ontario:	
Alloy Foundry Co., Ltd.	Merrickville
Auto Specialties Mfg. Co. (Canada) Ltd.	614 Tecumseh Rd. E., Windsor
Bell City Foundry (Brantford) Ltd.	411 West St., Brantford
Benn Iron Foundry	Mason St., Wallaceburg
Bibby Foundry Ltd.	Beverley St., Galt
Bowmanville Foundry Company Limited	Scugog St., Bowmanville
Brown Foundry Ltd.	Morrisburg
Canada Iron Foundries Limited	Burlington St. and Kenilworth Ave., Hamilton; Stuart and Caroline Sts., Hamilton; 171 Eastern Ave., Toronto
Canada Iron Foundries Ltd. (National Iron Division)	324 Cherry St., Toronto
Canadian General Electric Co., Ltd.	940 Lansdowne Ave., Toronto
Central Foundry	Hespeler
Cobalt Foundry Limited	Ferland Ave., Cobalt
Crawford Machine & Foundry Limited	100 Wilson St., Woodstock
Crowe Foundry Limited	Sheffield St., Hespeler
Cunningham Foundry & Machine Co., Ltd.	Berryman Ave., St. Catharines
Date Industries Ltd.	Ayr
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
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
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 Limited	Washington St., Forest
Imbleau, H., & Son	11 Bridge St., Renfrew
International Malleable Iron Co., Ltd.	200 Beverley St., Guelph
Keleher Foundry Co.	Victoria Road, Guelph
Kent Foundry Ltd.	Richmond St., Chatham
Lawson, Thos., and Sons, Ltd.	160 Fleet St., Ottawa
Lincoln Foundry Ltd.	65 St. Paul Cresent, St. Catharines
Link-Belt Limited	13 Church St., Elmira
London Concrete Machinery Co. (Hartley Foundry Division)	247 Colborne St. W., Brantford
McCoy Foundry Co., Ltd.	67 Bay St., N., Hamilton
McIntyre & Taylor, Limited	505 Queen St. W., Toronto
Marshall, A., Foundry	940 Assumption St., Windsor
Massey-Ferguson Ltd.	Greenwich St., Brantford
Muskoka Foundry Limited	Shier St., Bracebridge
Niagara Foundry Company Ltd., The	747 Buttery Ave., Niagara Falls
Ontario Malleable Iron Co., Ltd.	Prospect St., Oshawa
Powr Box Mfg. Co., Ltd.	101 Brian Dr., Agincourt
Shantz, P.E., Foundry	278 Fountain St., Preston
Smiths Falls Malleable Castings Limited	22 Bay St., Smiths Falls
Standard Fittings (Canada) Ltd.	4 Ripley Ave., Toronto
Standard Foundry and Supply Co., Ltd.	840 Walker Road, Windsor
Tomlinson, T., Foundry Co., Limited	352 Front St. E., Toronto
Toronto Foundry Co., Limited	1884 Davenport Rd., Toronto
Tube Turns of Canada Ltd.	21 York St., Ridgetown
Tubular Steel Products Ltd.	97 Manville Rd., Toronto
Victoria Foundry Co., Ltd.	44 Booth St., Ottawa
Wabi Iron Works, Limited	New Liskeard; Sudbury
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., Ltd.	Sargent and King Edward Sts., St. James
Dominion Foundry Co.	Union and Watt Sts., Winnipeg
Thor Foundry Limited	794 Archibald St., St. Boniface

Directory of Firms: Iron Foundries, 1960 – Concluded

Name of firm	Location of plant
Saskatchewan:	
Blanchard Foundry Co. Ltd.	104 – 22nd Street W., Saskatoon
Norwood Foundry (Sask.) Ltd.	1240 – 2nd Ave., Regina
Prince Albert Foundry Company	17th and Central Sts., Prince Albert
Alberta:	
Anthes-Imperial Co., Ltd.	Ogden Road, Calgary
Anthes-Imperial Co., Ltd.	9520 – 125th Avenue, Edmonton
Nichols Bros. Limited	10103 – 95th Street, Edmonton
Quality Steel Foundries Ltd.	7223 – 104th St., Edmonton
Norwood Foundry Co., Ltd.	9111 – 111th Avenue, Edmonton
St. Paul Foundry Ltd.	St. Paul
British Columbia:	
Associated Foundry Ltd.	4080 Nanaimo 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 Lulu Island, Vancouver
Nye's Foundry Ltd.	503 Powell Street, Vancouver
Peach City Foundry	176 Estabrook St., Penticton
Ross and Howard Iron Works Co., Ltd.	Ft. Woodland Drive, Vancouver
S.P. & F. Foundry Ltd.	3780 Napier St., North Burnaby
Singer Valve Co., Ltd.	1924 Franklin St., Vancouver
Terminal City Iron Works, Ltd.	1909 Franklin St., Vancouver
Union Bay Foundry	Union Bay
Victoria Foundries Ltd.	622 Pembroke St., Victoria

IRON FOUNDRI - 1960