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CANADA

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE CASTINGS AND FORGINGS

INDUSTRY

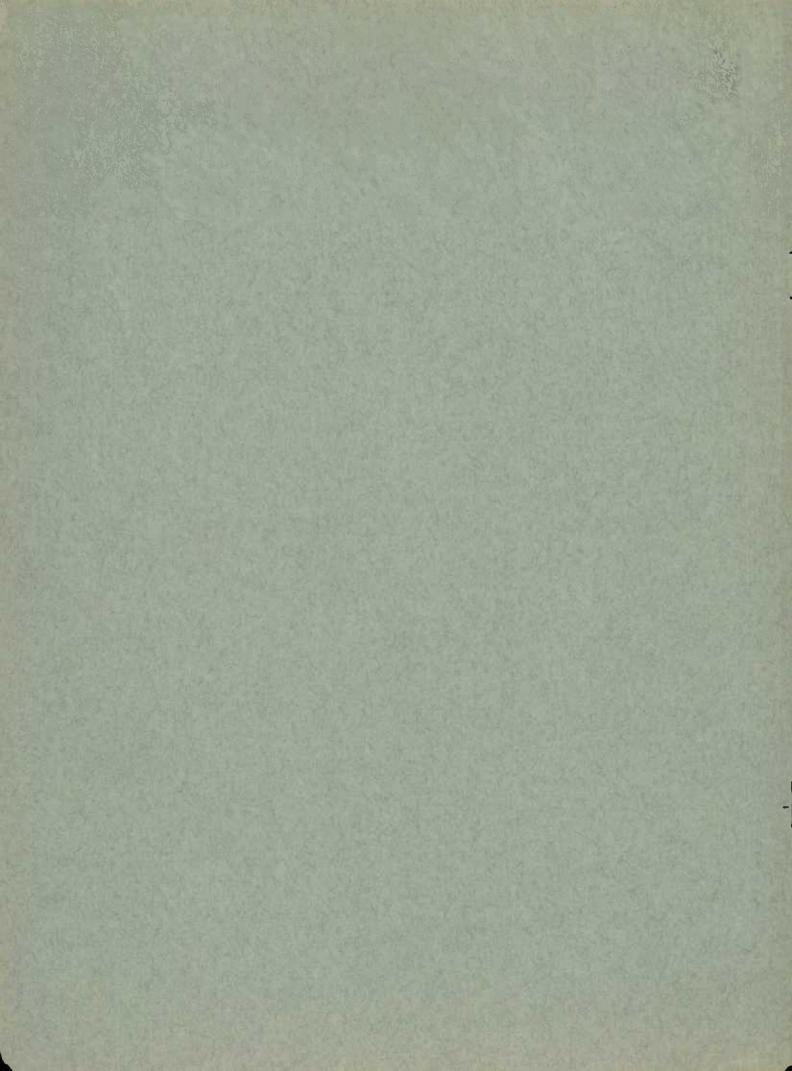
IN

CANADA

1935

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S.(Hon.) Chief, Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.

ANNUAL INDUSTRY REPORT

IRON AND STEEL AND THEIR PRODUCTS GROUP

THE CASTINGS AND FORGINGS INDUSTRY, 1935.
(Including (a) commercial castings and forgings; pipe and fittings. (b) Heating and cooking apparatus).

In accordance with the provisions of the Statistics Act each manufacturing concern in Canada submits to the Dominion Bureau of Statistics at Ottawa a yearly report covering such items as production, employment, capital, etc. In most cases a manufacturer makes more than one product but is not asked to apportion these details between the different articles which he manufactures. It is impossible, therefore, except in a few cases, to compile detailed figures of employment, etc., for any single commodity.

For the presentation of these detailed statistics the Bureau has subdivided manufacturing into nine groups of industries, producing concerns being classified according to the principal component material of their major products. For example, the pulp and paper industry is classified under "Wood and Paper"; iron foundries under "Iron and Steel and Their Products", etc. These main groups are further divided into industries to which the concerns are allotted according to the nature of their main products. The iron and steel group is subdivided into 14 industries, one being the Castings and Forgings Industry which is reviewed in this bulletin. This industry covers the operations of iron and steel works which were occupied chiefly in making commercial iron castings, stoves and other heating equipment, pipe and tubing, drop forgings of all kinds, and other related products. Some machinery, boilers, engines, pumps, etc., were made as secondary or minor products.

Some iron foundries have not been included in the Castings and Forgings 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. Supplementary data covering all iron foundries have been assembled and are appended to this report.

Statistics for the Castings and Forgings Industry are given in this report under two headings: (a) commercial castings and forgings, pipe and fittings, which includes all works that made custom castings and forgings or pipe and fittings as chief products; and (b) heating and cooking apparatus which covers plants that made furnaces, stoves, oil burners, water heaters, etc. as chief products. In the former group there were 243 establishments in 1935, and in the latter 60, or a total of 303 for the industry, distributed as follows: 167 in Ontario, 64 in Quebec, 31 in British Columbia, 12 in Nova Scotia, 10 in New Brunswick, 9 in Alberta, 4 in each of Manitoba and Saskatchewan, and 2 in Prince Edward Island. These works gave employment to 13,760 workers in 1935 and paid \$14,138,972 in salaries and wages. Expenditures for manufacturing materials amounted to \$14,042,882 and fuel and electricity cost \$1,591,805. Production was valued at \$38,779,813, an increase of 10 percent over the 1934 total of \$35,128,086.

Among the main products of this industry in 1935 were: commercial iron castings, \$8,434,718; stoves and hot plates, \$6,629,747; warm air furnaces, \$1,044,103; pipe, tubing and fittings, \$8,699,246; enamelled cast iron sanitaryware, \$929,423; machinery and parts \$1,336,640; commercial forgings, \$2,522,677; and custom repair work \$2,056,820. These figures do not, in any case, represent the total Canadian output of these commodities as there was also a small production in other industries; totals are given in the supplementary tables, 12 to 19 inclusive.

This report is divided into three sections. The tables given under section one refer only to the Castings and Forgings Industry and correspond with data published in separate bulletins for each of the other industries in the iron and steel group. Section two consists of supplementary tables in which are given the total Canadian production for the main commodities reported by concerns in this industry. Section three assembles data covering all iron foundries in Canada.

SECTION ONE - INDUSTRY TABLES

Years	No. of plants	*	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1921 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1934	329 321 317 324 335 328 327 336 340 333 322 327	82,266,395 80,872,431 88,325,248 88,674,538 84,812,441 91,193,541 89,505,687 95,326,911 102,900,796 100,318,189 95,377,318 79,225,330 72,810,073 71,187,589	16,758 16,484 19,146 17,217 17,120 19,183 19,149 20,782 23,443 20,499 17,049 12,452 11,111 13,116	20,613,263 19,383,896 23,634,438 20,878,462 21,039,510 24,037,578 24,267,396 26,759,016 30,854,654 25,871,261 19,203,234 11,821,243 9,816,895 13,199,126	1,940,848 2,074,480 3,116,856 1,946,315 1,908,345 2,317,468 2,082,819 2,223,843 2,581,003 2,121,827 1,692,572 1,241,672 1,130,725 1,460,757	20,626,750 19,817,117 26,741,217 22,182,216 22,522,361 27,250,473 26,792,119 31,530,148 35,994,441 28,262,602 18,598,048 9,825,439 8,053,094 12,141,691	55,220,144 54,418,262 70,283,006 57,494,594 61,754,339 70,235,798 69,395,343 81,904,852 91,575,146 74,233,671 51,455,296 29,285,144 24,197,347 35,128,086
Commercial	casting	gs and forgin	ngs; pipe	and fitting	38:-		
	243	48,636,433	9,890	10,262,444	1,294,368	10,687,919	28,718,833
Cooking and	d heating	ng apparatus	-				
	60	14,752,815	3,870	3,876,528	297,437	3,354,963	10,060,980
TOTAL	. 303	63,389,248	13,760	14,138,972	1,591,805	14,042,882	38,779,813

			- 3 -			
TA	BLE 2 - PRIN	CIPAL ST	ATISTICS H	BY PROVI	INCES, 1935.	en e
		A		Cost of	p	Gross
No.	C Canidal	Average		fuel an		selling
No. o		number		electri		value of
Provinces plant	s employed		and	at work		products
		ployees	wages	at work	rs at works	at works
	\$	residente que la restaur de materiale de la company	\$	\$	\$	
Commercial castings a	nd forgings;	pipe an	d fitting	S:-		
Prince Edward Is. 2)	200	63.0 0.00	07 6	500 004	7 400 040
Nova Scotia 10		500	612,069	61,0	500,924	1,402,840
New Brunswick 7		123	151,436	11,6	324 77,956	303,638
Quebec 58		2,230	2,099,759	245,6		6,540,889
Ontario 125			6,462,268			18,525,229
Manitoba 4			280,793			520,907
Saskatchewan 4			47,416			110,066
Alberta 8			194,664			361,882
British Columbia. 25	,		414,039			953,382
CANADA 243	the special expression and the second				368 10,687,919	28,718,833
		and of similar and	ainstarranici, also ra mon			and a second as the same of the comment of the comm
Cooking and heating a			200			000 000
New Brunswick 3	, ,		307,612			872,895
Quebec6	, ,	590	514,726			1,354,633
Ontario 42	, ,	-	2,974,196		-	7,684,462
British Columbia. 6		58	48,859	2,1	100 20,201	104,444
Nova Scotia 2		36	31,135	4,5	8,283	44,546
Alberta1	1					
CANADA 60	14,752,815	3,870	3,876,528	297,4	137 3,354,963	10,060,980
	able 3 - CAP	TOTAL TRUE	TOVED DV	DDOUTNO	TEC 1935	
1	able 5 - CAP		entory va		Operating	
	Present val		materials		capital (cash,	
	of land,		d, stocks		bills and	TOTAL
D	buildings,		cess, fin:		accounts re-	CAPITAL
Provinces	fixtures and		ducts, fu		ceivable, pre-	
		_	cellaneou		paid expenses,	ENL POTED
	machinery		plies on l		etc.)	
	A	Bup	bries ou	I all u	6000	
Commercial castings a	nd forgings.	nine en	d fitting	Q +	₽	
Prince Edward Is)				erel .	177 070	0.004.050
Nova Scotia)	1,411,279		439,021		433,952	2,284,252
New Brunswick.	424,415		45,167		109,416	578,998
Quebec	8,746,371	2	219,456		3,538,132	14,503,959
Ontario	16,088,058		516,594		4,945,964	26,550,616
Manitoba	1,506,745		197,704		105,808	1,810,257
Saskatchewan	112,561		57,758		27,089	197,408
Alberta	707,726		246,318		159,609	1,113,653
British Columbia	879,676		299,076		418,538	1,597,290
CANADA	29,876,831	9,	021,094		9,738,508	48,636,433
Cooking and heating a	pparatus:-					
New Brunswick	772,821		212,465		464,252	1,449,538
Quebec	1,858,343		327,855		1,234,411	3,420,609
Ontario	5,412,350	2.	328,084		1,938,768	9,680,202
British Columbia	76,866		54,262		28,041	159,169
Nova Scotia)						
Alberta)	21,500		1,700		20,097	43,297
	0.740.000	A 200 - 100	004 700	and the continuents of south time.	7 COE FOO	14 750 015
CANADA	8,142,880	20	924,366	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	3,685,569	14,752,815

Table 4 - BIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL FMPLOYED, 1935.

	CAPIT	AL EMPLOYED,	1935.	
	Number o	f Capital	Number of	Gross selling value of
	plants	employed	employees	products at works
		\$		\$
Commercial castings and forgin	ngs; pipe	and fittings:	-	
(a) PRODUCTION				
Under \$5,000	45	366,743	123	127,534
\$5,000 to \$10,000	37	693,538	199	265,186
\$10,001 to \$25,000	48	1,901,707	519	816,222
\$25,001 to \$50,000	26	1,430,752	493	929,627
\$50,001 to \$100,000	33	3,695,417	1,013	2,317,734
\$100,001 to \$250,000	28	9,357,651	1,866	4,720,979
\$250,001 to \$500,000	14	8,496,235	2,065	5,124,931
\$500,000 to \$1,000,000	7	6,165,299	1,836	5,317,409
Over \$1,000,000	5	16,529,091	1,776	9,099,211
TOTAL	243	48,636,433	9,890	28,718,833
The state of the s	£30	40,000,400	0,000	20,110,000
(b) EMPLOYEES	0.0	004 055		0.7 7.07
1 or 2	28	204,935	44	83,303
3 to 10	83	1,936,418	487	941,509
11 to 20	42	1,898,116	621	1,214,684
21 to 50	45	8,020,248	1,487	3,751,184
51 to 100	17	5,045,080	1,225	2,823,233
101 to 250	23	18,350,537	3,918	12,583,053
Over 250	5	13,181,099	2,108	7,321,867
TOTAL	243	48,636,433	9,890	28,718,833
(c) CAPITAL				
Under \$25,000	95	1,142,060	523	823,984
\$25,000 to \$100,000	76	3,442,376	1,257	2,620,382
\$100,001 to \$500,000	50	12,264,237	3,796	9,623,202
\$500,001 to \$1,000,000	12	8,067,508	1,497	3,907,830
Over \$1,000,000	10	23,720,252	2,817	11,743,435
TOTAL	243	48,636,433	9,890	28,718,833
Cooking and heating apparatus:	_			
(a) PRODUCTION				
Under \$5,000	5	46,490	13	14,174
\$5,000 to \$10,000	11	135,381	40	79,447
\$10,001 to \$25,000	6	144,784	62	88,620
\$25,001 to \$50,000	9	765,973	163	304,042
\$50,001 to \$100,000	8	712,120	291	595,900
\$100,001 to \$250,000	6	1,550,992	312	850,351
\$250,001 to \$500,000	12	7,803,666	1,953	5,075,824
Over \$500,000	3	3,592,409	1,036	3,052,622
TOTAL	60	14,752,815	3,870	10,060,980
(b) EMPLOYEES				
1 or 2	7	97,071	11	33,553
3 to 10	14	246,900	77	148,268
11 to 20	8	660,232	107	354,937
21 to 50	12	1,798,571	385	1,039,812
51 to 100	6	1,591,356	436	914,007
101 to 250	10	5,839,345	1,680	4,921,463
Over 250	3	4,519,340	1,174	2,648,940
TOTAL	60	14,752,815	3,870	10,060,980
(c) CAPITAL				
Under \$25,000	22	274,615	134	238,594
\$25,000 to \$100,000	12	793,371	231	489,201
\$100,001 to \$500,000	15	3,974,293	1,020	2,560,401
Over \$500,000	11	9,710,536	2,485	6,772,784
TOTAL	60	14,752,815	3,870	10,060,980

Table 5 - I	EMPLOYEES.	SALAFIES	AND	WAGES.	BY	PROVINCES.	1935.
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Provinces		GE NUMBER Cries Female		PLOYEES wages Female	TOTAL	Salaries	Wages	TOTAL SALARIES AND WAGES
Commercial casting	s and	forgings	; pipe	and fitt	ings:-	\$	\$	\$
Prince Edward Is.) Nova Scotia	38	18	441	3	500	216,768	395,301	612,069
New Brunswick	20	6	97	_	123	46,619	104,817	151,436
Quebec	325	77	1,784	44	2,230	632,098	1,467,661	2,099,759
Ontario	499	139	5,474	72	6,184	1,214,251	5,248,017	6,462,268
Manitoba	43	5	208	7.70	256	63,063	217,730	280,793
Saskatchewan	12	1	36	7	49	16,602	30,814	47,416
Alberts	29	5	148	-	182	52,401	142,263	194,664
British Columbia	48	8	310	-	366	86,833	327,206	414,039
CANADA	,014	259	8,498	119	9,890	2,328,635	7,933,809	10,262,444
Cooking and heatir	ng appe	aratus:-						
New Brunswick	32	16	271	6	325	77,149	230,463	307,612
Quebec	84	26	479	1	590	147,321	367,405	514,726
Ontario	331	108	2,398	24	2,861	784,821	2,189,375	2,974,196
British Columbia.	10	3	44	1	58	16,182	32,677	48,859
Nova Scotia) Alberta)		-	30	1	36	8,945	22,190	31,135
CANADA	462	153	3,222	33	3,870	1,034,418	2,842,110	3,876,528

Table 6 - WAGE-EARNERS, BY MONTHS, 1935. (On the 15th of each month or the nearest representative date).

Months	forgings	lal casting; pipes a		Cooking and heating apparatus		
MOTIOND	Male	Female	TOTAL	Male	Female	TOTAL
January	7,206 7,775	115 115	7,321 7,890	2,557 2,802	30 29	2,587 2,831
March	8,260 8,414	110 108	8,370 8,522	2,921 3,020	30 31	2,951 3,051
May June	8,606 8,579	113 111	8,719 8,690	3,127 3,198	31 30	3,158 3,228
JulyAugust	8,424 8,622	110 120	8,534 8,742	3,304 3,407	28 34	3,332 3,441
September	8,910 9,148	129 134	9,039	3,625 3,775	35 34	3,660 3,809
November	9,140 8,780	144 138	9,284 8,918	3,646 3,264	32 31	3,678 3,295
AVERAGE	8,498	119	8,617	3,222	33	3,255

Table 7 - FUEL AND ELECTRICITY USED, 1935.

	Unit of measure		Commercial of forgings; fitting	pipe and	Cooking and heating apparatus	
Kinds			Quantity	Cost at works	Quantity	Cost at works
				\$		\$
Bituminous coal - Canadian	short	ton	10,574	60,908	6,167	35,058
Imported			83,187	478,649	7,017	46,224
Anthracite coal			1,328	10,917	167	1,753
Lignite coal			1,522	5,271	3	32
Coke			8,290	87,659	955	9,235
Gasoline.		-	30,764	7,204	10,230	2,072
Kerosene	_	gal	13,453	2,065	537	99
Fuel oil	_	gal	2,157,865	143,333	104,635	8,725
Wood	core	i	3,552	16,463	2,081	7,851
Gas - Manufactured	M cu.	ft.	6,897	4,394	4,033	3,349
Natural.			64,851	27,723	3,748	1,743
Other fuel			e o a	4,489	6 4 0	0 8 8
Electricity purchased		Н.	35,465,076	445,293	22,517,372	181,296
TOTAL.	xxx		000	1,294,368	000	297,437
Electricity generated for own use	K. W.	Н.	755,000	0 0 0	50,000	a ¢ o

Table 8 - POWER EQUIPMENT, 1935

Kinds	forgings	castings and ; pipe and ings	Cooking and heating apparatus		
		Total rated horse power	Number of units	Total rated horse power	
Steam engines and steam turbines	30	2,385	8	775	
Gasoline, gas and oil engines	22	435	4	235	
Hydraulic turbines or water wheels	2	65	eso	degli	
Total Primary Power Equipment.	54	2,885	12	1,010	
Electric motors run by purchased power	3,630	48,998	946	7,561	
Total horse power installed	3,684	51,883	958	8,571	
Electric motors run by power generated by above primary units.	50	713	11	125	
Total Electric Motors	3,680	49,711	957	7,686	
Boilers	110	8,806	31	3,627	

Table 9 - POWER EQUIPMENT SHOWING ORDINARILY IN USE SEPARATELY FROM IN RESERVE OR IDLE, 1935.

Commercial castings and forgings; pipe and fittings: Steam engines and steam turbines		Ordinari	ly in Use	In Reserve or Idle		
Steam engines and steam turbines	Kinds					
Gasoline, gas and oil engines	A STATE OF THE PROPERTY OF THE			•		
Hydraulic turbines or water wheels 1 55 1 10 Total Primary Power Equipment 41 1,851 13 1,034 Electric motors run by purchased 5 power	Steam engines and steam turbines	22	1,390	8	995	
Total Primary Power Equipment 41 1,851 13 1,034 Electric motors run by purchased 7,546 47,191 84 1,807 Total Horse Power Installed 3,587 49,042 97 2,841 Electric motors run by power generated by above primary units 50 713 -	Gasoline, gas and oil engines	18	406	4	29	
Electric motors run by purchased power	Hydraulic turbines or water wheels	1	55	1	10	
Power Installed 3,546 47,191 84 1,807 Total Horse Power Installed 3,587 49,042 97 2,841 Electric motors run by power generated by above primary units 50 713	Total Primary Power Equipment	41	1,851	13	1,034	
Total Horse Power Installed						
Electric motors run by power generated by above primary units 50 713	power	3,546	47,191	84	1,807	
generated by above primary units 50 713 -	Total Horse Power Installed	3,587	49,042	97		
	Electric motors run by power					
	generated by above primary units	50	713	es:		
	Total Electric Motors	3,596	47,904	84	1,807	
Boilers	and the state of t	105	8,031	5	the state of the s	
Cooking and heating apparatus:-	Cooking and heating apparatus:-					
Steam engines and steam turbines 6 525 2 250	Steam engines and steam turbines.	6	525	2	250	
Gasoline, gas and oil engines 3 55 1 180		3	55	1	180	
Total Primary Power Equipment 9 580 3 430		9	580	3	430	
Electric motors run by purchased						
power 9900000000000000000000000000000000000		942	7,481	4	80	
Total Horse Power Installed 951 8,061 7 510		951	8.061	7	510	
Electric motors run by power			the second secon			
generated by above primary units 11 125 -	* * * * * * * * * * * * * * * * * * *	11	125	-	400	
Total Electric Motors 953 7,606 4 80		953	the second secon	4	80	
Boilers 28 3,337 3 290		the same of the sa	the state of the s	OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	the Control of the Co	

Table 10	- MATERIALS	USED, 1935		
Unit of		castings and ; pipe and ings	Cooking and heating apparatus	
Materials measure	Quantity	Cost at works	Quantity	Cost at works
Iron -		\$		\$
Pig iron, all grades long ton	50,670	1,086,218	14,596	325,908
Wrought iron bars short tor	434	29,879	87	5,274
Wrought iron skelp short tor	1,496	77,838	0 0 0	606
Iron castings of all				
kinds short tor	3,007	207,292	412	49,163
Steel, hot or cold rolled -				
Steel castings short ton	1,027	196,299	23	2,507
Ingots, blooms and				
billets bear some short tor	9,501	349,499	0.0.0	Q (+ G)
Bars and rods short ton	21,141	1,009,394	188	12,615
Forgings short ton	49	7,028	5	545
Platesshort tor	1,414	85,622	171	9,559
Shafting sassesses short tor	256	25,880	12	928

- 8 -

Table	10 -	MATERIA	TS	HSED	Continued.
Tanta	TO -	MAILTILE	CUL	ODED F	con munea.

. Lawy L	_F171.1:	1-1-1-1C.	Commercial	castings an	d	
				s; pipe and	Gooking a	
Materials	Unit	of		tings	heating a	pparatus
ma certais	meas	ure	· On and I do	Cost at	O	Cost at
			Quantity	works	Quantity	works
				\$		\$
SheetsEnamelling	short	ton	478	41,082	2,463	194,708
Galvanized			897	89,378	775	61,017
Plain (black)			1,045	62,719	4,591	305,196
Polished			254	15,446	764	69,459
Stainless			_	27	52	15,281
Skelp			74,185	2,349,510	•••	10,001
Strip			258	19,498	7	1,295
Stampings			89	18,152	1	174
Structural shapes (channels,					NAME OF TAXABLE PARTY.	
angles, etc	short	ton	2,147	165,065	59	3,877
Wire	short	ton	1,769	99,784	60	4,539
Alloy steel	short	ton	-	430,500	-	7,647
Scrap iron and steel of	al and	4	03 545	007 110	10 411	177 504
Kinds	snort	ton	81,545	887,119	12,411	131,584
Other iron and steel (except	ab - mt		กะา	10.040	70	0.003
finished parts)	snort	ton	251	19,940	79	6,981
Other metals (including scrap)-	71		100 707	00 777	04 505	01 007
Aluminium	lb.		166,393	28,377	94,587	21,823
Brass and bronze castings	lb.		585,545	86,407	120,644	27,889
Brass and bronze sheets, etc	lb.		666,085	68,061	45,838	9,970
Copper sheets, bars, etc	lb.		738,144	53,384	313,943	67,018
Lead	1b.		166,922	7,646	4,786	394
Nickel	lb.		46,920	14,778 31,242	3,134	1,323
	lb.		57,073 5,058,894	203,605	12,364	6,218
Zinc Babbitt metals and solders	lb.		81,768	17,527	4,200 9,415	264
Other metals	10		01,700	29,641	3,410	2,847 4,638
Articles used for further				20,041		1,000
manufacture -						
Parts for machines or vehicles				126,162		63,287
Iron and steel pipe, tubes and				200,200		00,20
fittings			-	143,850	-	43,902
Bolts, nuts, rivets and screws			-	138,230	- 2	83,980
Electrical goods, including						
motors	• •		-	103,256	-	359,739
Frit for enamelling		,	450	10,821	-	113,055
Feldspar	short	ton	479	8,922	183	2,632
Paints, oils and varnishes	• •		-	79,446	-	16,391
Rubber and leather goods			_	35,802		25,206
Other articles of this class			-	105,013	-	108,870
Other materials and supplies -						
Foundry coke (used in cupola;	ab	4	74 570	207 015	6 010	07 400
not for heat or power)	short		34,538 22,899	367,915 82,047	6,912 5,956	83,406 30,891
Moulding sands			35,461	73,000	764	2,573
Other foundry sands(sand-blast)		0011	00,401	10,000	101	2,010
etc	short	ton	4,582	30,910	3,134	26,448
Starch	lb.		10,000	100	100	6
Plumbago	1b.		230,190	11,551	20,730	1,256
Other foundry facings	lb.		4,154,916	33,657	131,270	7,185
Patterns and models			0 003	27,489	4 001	4,299
Lumber	M ft.b	• III •	2,681	90,242	4,861	99,829
			134			
2224					***	
The state of the s			4.14		44.6	

Table 10 - MATERIALS USED, 1935 - (Concluded)

Materials	Unit of	forging	castings angs; pipe and ttings	Cooking	Cooking and heating apparatus		
	measure	Quantity	Cost at works	Quantity	Cost at works		
			#		\$		
Other materials and supplie	s - con						
Firebrick			81,446		38,232		
Fireclay	short ton	3,365	28,338	565	5,644		
Cupola blocks			19,491		2,689		
Core oil	imp. gal.	90,464	41,713	3,413	2,230		
Core compound	lb.	540.614	24,626	- • • •	158		
Shipping containers			70,559		24,713		
All other materials and							
supplies			1,113,190	_	857,701		
TOTAL		000	10,687,919	_	3,354,963		

Table 11 - PRODUCTS MADE IN THE CASTINGS AND FORGINGS INDUSTRY, 1935.

NOTE - Data given in this table cover only the output of firms classified to the Castings and Forgings Industry. Figures for the individual items do not represent the total output for Canada as in nearly every case there was also a production in other industrial groups. The (x) indicates that the figures are incomplete for this reason. Supplementary tables have been added in order to provide total production statistics for the individual

items.

Commercial castings and					
			gs; pipe and	Cooking	and
Descharte	Unite of	fi	ttings	heating	apparatus
Products	measure	Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Boilers, heating and power,			115 110		20. 3.03
and parts (x)	1 4 4	7 440	115,116	• • •	60,191
Bolts, nuts and rivets (x).	short ton	3,440	426,268		* * *
Commercial castings (not					
specified elsewhere - Aluminium (x)	shart ton	45	35,485	4	E 401
Grey iron (x)		60,074	5,209,096		5,481
Malleable iron (x)		16,041	2,007,962	1,705	217,640
Brass (x)		265		1	619
		10	127,917 4,448		
Copper (x)		200	97,625	0 9 9	• • •
Bronze (x)	XXX		531,761	• • •	
Chains (x)	XXX	0 0 0	001,701	• • •	
apparatus -					
Furnaces, warm air (x)	No.	656	33,328	14,012	1,010,775
Stoves and ranges (x)	No.	2,903	72,991	185,739	6,531,841
Cooking plates and	1100	2,000	,	200,100	0,002,022
rangettes (x)	No.	16,630	2,060	6,400	22,855
Water tank heaters (x)	No.	2,320	13,818	13,152	131,381
Blowers for domestic		,			
furnaces (x)	No.	421	16,361	1,082	34,511
Grate bars	short ton	667	66,634	50	6,234
Registers and grills, air.	XXX		77,697		45,247
Oil burners (x)	No.	2,392	52,182	400	64,776
Radiators, heating (x)	XXX	000			43,063
Steam traps	XXX			24,618	88,285
					-

Table 11 - PRODUCTS MADE IN THE CASTINGS AND FORGINGS INDUSTRY, 1935 - Concluded

		Commercia	l castings and		V 1 V ca c Division of the afficial action of the
		forgin	gs; pipe and	Cookin	g and
Products	Unit of	fi	fittings		g apparatus
	measure		Selling value		Selling value
	mod but o	Quantity	at works	Quantity	at works
			\$		\$
Cooking and heating			Ψ		
apparatus - Con					
Stove parts	жж	000	72,767	000	416,117
Furnace parts	XX	0.9	22,635	2 . 0	34,468
Other heating and					
ventilating equipment	ХX	0.911	157,515	000	536,263
Engines and parts (x)	ж	Q	89,245	000	006
Forgings, (not specified					
elsewhere) (x)	short ton	18,159	2,522,677	0 0 0	0 # 0
Hardware (x)	ХX	600	224,584	200	J 0 0
Machinery and parts (x)	XX	000	1,070,935	000	265,705
Pipe, tubing and fittings,					
iron and steel (x)	XX	6 e e	8,699,246	0 0 0	000
Plumbers fittings, iron					
(other than pipe and					
fittings)	XX	9 ** 1	167,629		000
Pumps (x)	ж	D is in	181,567	000	0 n 0
Sanitaryware, cast iron					
enamelled	XX	0.00	929,423	c = 0	0 0
Tanks, steel plate and					
sheet (x)	XX	947	71,094	3 5 9	0 6 0
All other products in					
cluding items reported					
by only 1 or 2 concerns	XX	1000	3,603,325	0 0 0	504,130
Receipts from custom work					
and repairs	XX	(3. 34. 62 	2,015,442	0 4 U	41,378
TOTAL	xx		28,718,833	V. V. III	10,060,980
	constitution of all his time distributions				ATTENDED BY BUTTON BY

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935.

NOTE - Iron foundries are marked (F). See also supplementary list at end of this report.

(a) Commercial castings and forgings; pipe and fittings

N	am	es	of	Fi	rms

Location of Plants

PRINCE EDWARD ISLAND
Parker, H. W. (F)
Stewart, Bruce, and Co. Ltd. (F)

Georgetown
6 Great George St., Charlottetown

NOVA SCOTIA
Cumming, J. W., Mfg. Co. Ltd
Dartmouth Iron Foundry (F)
Enamel and Heating Products Ltd. (F)
Fleming Bros (F)
Hillis and Sons, Ltd. (F)

Glasgow St., New Glasgow 42 Maple St., Dartmouth Station St., Amherst 1595 Barrington St., Halifax Kempt Rd., Halifax

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935 - Continued.

(a) Commercial castings and forgings; pipe and fittings - continued.

Names of Firms

NOVA SCOTIA - Concluded
Lunenburg Foundry Co. Ltd. (F)
Matheson, I., and Co. Ltd. (F)
New Glasgow Foundry Ltd. (F)
Sydney Foundry and Machine Works, Ltd. (F)
Thompson Bros. Machinery Co. Ltd. (F)

NEW BRUNSWICK

Abrams, John, Sons, Ltd. (F)

Courtenay Iron and Brass Foundry (F)

Dunbar Engine and Foundry Co.

McLennan Foundry and Machine Works, Ltd. (F)

Phoenix Foundry Co. (F)

St. John Iron Works, Ltd. (F)

Wallace Mfg. Co. Ltd. (F)

QUEBEC -Belanger, O., Enrg. (F)

Bellefeuille et Freres

Bergeron, J. E. (F) Boisclair, Antoine (F) Bruleur Desro Star Enrg.

Canada Iron Foundries, Ltd. (F)

Canadian National Foundry (F)
Canadian Tube and Steel Products, Ltd.
Cote Bros and Burritt
Crampton Foundries, Ltd. (F)
Crane, Ltd. (F)

Darling Bros Ltd. (F)
Dominion Foundry Ltd. (F)
East End Foundry Co. Ltd. (F)
Engineering Products of Canada, Ltd.
Fonderie Despres (F)
Fonderie de Lacolle (F)
Fonderie Paquette (F)
Frenette, Emile

General Foundry, Ltd. (F)
La Compagnie F. X. Drolet (F)
La Compagnie Dussault et Lamoureux (F)

La Fonderie Beloeil, Enrg. (F)
La Fonderie Bourget, Enrg. (F)
La Fonderie Canadienne (F)
La Fonderie de Ste. Croix Ltee. (F)
La Fonderie de Joliette, Ltee. (F)
La Fonderie Legare (F)

Location of Plants

Lunenburg
North Provost St., New Glasgow
New Glasgow
Pitt St., Sydney
Water St., Liverpool

62 Foundry St., Moncton Rothesay Ave., Saint John Woodstock Campbellton 126 Pond St., Saint John Saint John Winter St., Sussex

2440 rue des Carrieres, Montreal 1839 rue Notre Dame, Three Rivers 1 rue St. Louis, La Tuque St. Gabriel de Brandon 311 rue St. Georges, Three 227 St. Maurice St., Three Rivers Grand'Mere 5765 Hamilton St., Montreal 1260 Conde St., Montreal 1971 Tansly St., Montreal 3800 St. Patrick St., Cote St. Paul, Montreal 140 Prince St., Montreal 167 St. Hubert St , Pont-Viau 1990 LePailleur St., Montreal 6259 Notre Dame E., Montreal Montmagny Station Lacolle 30 St. Ignace, Laprairie 2720 rue Notre Dame Ouest, Montreal Windsor Mills 206 rue Dupont, Quebec 8 rue St Hyacinthe, St. Hyacinthe Beloeil Station Windsor Mills Est 374 rue St. Jacques, St. Jean Ste Croix Joliette 48 Short St., Sherbrooke

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935 - Continued.

(a) Commercial castings and forgings; pipe and fittings - continued.

Names of Firms

QUEBEC - Concluded. La Fonderie de St. Anselme, Ltee. (F) La Fonderie Ouellet, Enrg. (F) La Fonderie de Thetford, Ltee. (F) La Fonderie Rigaud (F) La Fonderie de Robertsonville Co. Ltee. (F) La Fonderie Roy (F) Laperle, Louis, Enrg. (F) Laroche & Frères Lefebvre, Philibert et Fils (F) Limoges et Freres (F) MacDonald Metal Products Co. Ltd. (F) McOuat, T., and Son (F) Montreal Foundry Ltd. (F) Monsarrat Machinery and Foundries Ltd. (F) Paquette et Frere (F) Paterson, William, & Co. Peacock Bros. Ltd. (F) Quebec Brass and Iron Foundry Co. Ltd. (F) Rouleau, Ltee. (F) Savoie, Alonzo (F) Shawinigan Foundries, Ltd. (F) Sorel Mechanical Shops Co., Ltd. (F) Steel Company of Canada, Ltd. Terreau et Racine Ltee. (F) Trottier et Sauvageau Union Foundry Reg'd. (F) Viau, M. I., et Fils, Ltee. (F) Vilas, W. F., Co. Ltd. (F)

ONTARIO -

Walford, H. Ltd. (F)

Acme Calk and Tool Co. Algoma Steel Corporation, Ltd. (F) Anthes Foundry Ltd. (F) Armstrong Foundry & Machine Shop, Ltd. (F) Auto Specialties Manufacturing Co. (F) Barco Mfg. Co. of Canada, Ltd. Belleville Foundries, Ltd. (F) Bibby Foundry (F) Bingley, W. & Son Ltd. (F) Bishop, T. G. (F) Bond Engineering Works Ltd. (F) Bowmanville Foundry Co. Ltd. (F) Bradley Foundry (F) Bredannaz, Louis, and Sons Callander Foundry and Mfg. Co. Ltd. (F) Canada Foundries and Forgings, Ltd.

Canada Valve and Hydrant Co. Ltd. The Canadian Blower and Forge Co. Ltd. (F)

Location of plants

St. Anselme Station St. Leonard 796 rue Notre Dame, Thetford Mines St. Anselme St., Rigaud Robertsonville Laprairie St. Ours Pont Rouge St. Placide 42 Chateauguay, Hull Taylor St. E., Waterloo Lachute Mills 1249 Conde St., Montreal Riviere du Loup 11 rue St. Jean-Bte., Terrebonne 6940 Park Ave., Montreal 290 St. Patrick St., Ville La Salle 53 Commercial St., Levis Mont Joli Ste. Marie de Beauce Shawinigan Falls King St., Sorel 4110 St. Ambroise St., Montreal 137-143 rue St. Andre, Quebec St. Casimir 45 St. Louis St., Granby St. Jerome Cowansville 2320 Aird Ave., Montreal

31 Cannon St. E., Hamilton Sault Ste. Marie 64 Jefferson Ave., Toronto Wellington St., Orangeville 904 Tecumseh Rd. E., Windsor Devonshire Rd., Walkerville 111 Station St., Belleville Beverly St., Galt 42 William St., Cornwall King and Queen Sts., Kingston Cor. Villiers and Munition Sts., Toronto Scugog St., Bowmanville Paris 156 Duke St., Toronto 54 Crimea St., Guelph Queen St., Welland, and Major St., Welland Holme St., Brantford Woodside Ave., Kitchener

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935, Continued.

(a) Commercial castings and forgings; pipe and fittings - continued.

Names of Firms

Kinkade Burners

ONTARIO - Cont'd. Canadian Car & Foundry Co. Ltd. (F) Canadian General Electric Co. Ltd. (F) Canadian Steam Boiler Equipment Co. Ltd. Castings of Ottawa, Ltd. (F) Cobalt Foundry (F) Cooey, H. W., Machine and Arms Co. Corbet Foundry and Machine Co. Ltd. (F) Cornwall Brass & Iron Foundries (F) Coulter, Levi L. (F) Cunningham & Son (F) Dart Union Co. Ltd. Davidson Foundry (F) Denesha, A., and Sons (F) Devlin, C., and Son, (F) Diamond Calk Horseshoe Co. Dixon Mfg. Co. Dominion Forge and Stamping Co. Ltd. Draft King Blowers Ellinghausen, S. F. (F) Eureka Planter Co. Ltd. The (F) Fittings Limited (F) Fleck, Alexander, Ltd. (F) Fruit Machinery Co. Ltd. (F) Galt British Forge Galt Malleable Iron Co. Ltd. (F) Gartshore-Thomson Pipe and Foundry Co. Ltd. (F) Stuart St., Hamilton Gies, Philip, Foundry Ltd. (F) Goderich Iron and Brass Foundry (F) Gough Engineering Co. Ltd. The Green, G. Walter, Co. Ltd., The (F) Griffin Foundry Co. (F) Grinnell Co. of Canada, (F) Guelph Foundry Co. (F) Hall and Quick Hamilton Foundry Co. (F) Hampson, A. C. (F) Hastings Foundry (F) Hayden, Thos., and Son (F) Hepburn, John T., Ltd., (F) Holmes Foundry Co. Ltd. (F) Imbleau, H., & Sons (F) Ingersoll Machine and Tool Co. Ltd. International Malleable Iron Co. Ltd. (F) Involute Gear Co. Jackson, Geo. H. Ltd. James Bros. Foundry (F) Kerr and Coombes Foundry Co. Ltd. (F) Kerr Engine Co. Ltd., The Kingsville Foundry (F)

Location of Plants

Wilkins St., Brantford 1025 Lansdowne Ave., Toronto 20 McGee St., Toronto 51 Booth St., Ottawa. Cobalt King and Tremaine Sts., Cobourg 1064 1st Ave. W., Owen Sound 422 Sixth St., E., Cornwall 280 Main St., Weston Berryman Ave., St. Catharines 11-17 Charlotte St., Toronto 16 Hamilton Ave., Ottawa 6102 Pitt St., Cornwall 274 Pembroke St. W., Pembroke 27 Bathurst St., Toronto Birch St., Collingwood Windsor 1960 Yonge St., Toronto Walkerton Winnett St., Woodstock · 135 Bruce St., Oshawa 416 Wellington St., Ottawa 368 Front St., Belleville 202 Beverly St., Galt Shade and Kerr Sts., Galt 36 Water St. S., Kitchener Victoria St. Goderich 48 Market St., Hamilton 406 McDonnel St., Peterborough 22 Huskisson St., Guelph 2440 Dundas St., West, Toronto Wellington St. E., Guelph 39 Wentworth St., N., Hamilton Ruth and Clinton Sts., Hamilton Walkerton 10 Pine St., Stratford Cavan St., Port Hope 18-60 Van Horne St., Toronto Exmouth St., Sarnia Raglan St., Renfrew King St. W., Ingersoll 200 Beverly St., Guelph 321 Howland Ave., Toronto Biggar Ave., Hamilton Perth (2 plants) 67 Bay St. N., Hamilton Walker Rd. & Edna St., Walkerville Main St. W., Kingsville 54 Wellington St., Stratford

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935, Continued.

(a) Commercial castings and forgings; pipe and fittings - continued.

Names of Firms

ONTARIO - Continued. Lakeside Foundry, Ltd. (F) Lawson, Thos., and Sons, Ltd. (F) Lindsay Foundry, (F) McCrae, John, Machine and Foundry Co. The (F) McIntyre & Taylor, Ltd. (F) McKinnon Columbus Chain Ltd. Marshall, A. (F) Midland Engine Works (F) Milton Foundry Machine and Tool Co. Moore Bros. Muskoka Foundry Ltd. (F) National Iron Corporation Ltd. (F) New Standard Foundry Co. (F) Niagara Foundry Co. (F) Northern Foundry and Machine Co. Ltd. (F) Norsworthy, C., Co. Ltd. (F) Ontario Malleable Iron Co. Ltd. (F) Orme's Ltd. Page-Hersey Tubes, Ltd. Payette, Pay Co. (F) Port Hope Sanitary Mfg. Co. Ltd. (F) Sandilands Valve Manufacturing Co. Ltd. Sandwich Foundry Ltd. (F) Shantz, P. E., Foundry (F) Shenton, H. E. Slater, No, Co. Ltd. Smith's Falls Malleable Castings Ltd. (F) Standard Foundry and Machine Co. (F) Standard Foundry and Supply Co. Ltd. (F) Standard Fuel Economizer Co. Standard Sanitary Mfg. Co. Ltd. (F) Standard Tube Co. Ltd. Stark, Geo. S. (F) Steel Company of Canada, Ltd. Sudbury Construction & Machinery Co. Ltd. (F) Taylor Foundry Co. (F) Tomlinson, To, Foundry Co. Ltd., (F) Toronto Foundry Co. (F) Toronto Furnace Co., Ltd. (F) Toronto Hardware Mfg. Co. Ltd. (F) Tuttle & Bailey Mfg. Co. of Canada, Ltd. Tweed Foundries, Ltd. (F) Union Foundry Co. (F) Victoria Foundry Co. (F) Wabi Iron Works, Ltd. (F) Walker Metal Products Ltd. (F) Warp Tension Governors, Ltd. (F) Waugh Stove Works (F) Webber Machine Co.

Welland Iron and Brass Co. (F)

Location of Plants

Ft. Erie Rd., Port Colborne 376 Wellington St., Ottawa Victoria Ave., Lindsay 81 William St. N., Lindsay 505 Queen St., W., Toronto Ontario St., St. Catharines 918 Assumption St., Windsor Midland Mill St., Milton 61 Nelson St., Toronto Shier St., Bracebridge 324 Cherry St., Toronto Foot of Jarvis St., Toronto 747 Buttrey Ave., Niagara Falls 457 Bay St., Sault Ste. Marie 102 Center St., St. Thomas Oshawa 175 Sparks St., Ottawa Guelph and Welland Nelson St. Penetanguishene Port Hope 19 Concession St., Galt 400 Bloomfield Rd., Sandwich Fountain St., Preston 110 Aikman Ave , Hamilton 20 Sydney St., Hamilton 22 Bay St., Smith's Falls N. Cayuga & Cedar Sts., Dunnville Walker Road, Walkerville 2-6 Macaulay Ave. Toronto 1000 Lansdowne Ave., Toronto Drew and Given Sts., Woodstock Newmarket River St., Gananoque 149 Lorne St., Sudbury 6 Plymouth Ave., Toronto 60 Esplanade St. E., Toronto 1884 Davenport Road, Toronto 35 Golden Ave., Toronto 420 Dufferin St., Toronto Wood St., Fort Erie Tweed Aubin Rd , East Windsor 44 Booth St., Ottawa New Liskeard Kildare Rd., Walkerville 303 Water St. W., Cornwall Almonte 15 Alcorn St., Toronto 102 Niagara St., Welland

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935, -Continued.

(a) Commercial castings and forgings; pipe and fittings - continued.

Names of Firms

ONTARIO - Concluded
Wells Motors, Ltd. (F)
West's Company (F)
Whitelaw, Robert, Estate
Windsor Furnace Co. (F)
Woodside Bros. (F)
Worr Foundry Co. Ltd. (F)
Zenith Alloys

MANITOBA Anthes Foundry Ltd. (F)
Dominion Foundry Co. (F)
Vulcan Iron Works, Ltd. (F)
Winnipeg Foundry Co. Ltd. (F)

SASKATCHEWAN East, John, Iron Works Ltd.
Moose Jaw Foundry (F)
Prince Albert Foundry Co. (F)
Springstein & Davidson Machine Shop (F)

Alberta Foundry and Machine Co. Ltd. (F)
Bolton, Garvie Co. (F)
Calgary Iron Works Ltd. (F)
Lethbridge Iron Works Co. Ltd.
Nichols Bros. Ltd. (F)
Norwood Foundry Co. Ltd. (F)
Riverside Iron Works Ltd. (F)
Standard Iron Works, Ltd. (F)

BRITISH COLUMBIA -Acme Iron Works (F) Anthes-Tait Foundry Ltd. (F) Boundary Iron Works Ltd. (F) Canada Chain and Forge Co. Ltd. Canadian Sumner Iron Works Ltd. (F) Cranbrook Foundry and Machine Shops (F) Ellis, W. J., & Co. (F) Leader Burners Letson & Burpee Ltd. (F) Lister Iron Works Littler & Sons Iron Works (F) McLean and Powell Iron Works (F) Mainland Foundry Ltd., (F) Nanaimo Foundry, c-o Joseph W. Dobeson (F) Nelson Iron Works, Ltd. (F) Pacific Foundry (F) Progressive Engineering Works Ltd. (F) Ramsay & Adams Foundry Co. Ltd. (F) Reliance Foundry Co. Ltd. (F)

Location of Plants

1245 York St., London
Norfolk and Union Sts., Simcoe
Main St., Woodstock
658 Dufferin St., Windsor
173 Manitou St., Port Arthur
163 Sterling Road, Toronto
Dundas St., Brantford

Saskatchewan Ave., Winnipeg Watt & Union Sts., Winnipeg Point Douglas Ave., Winnipeg 115 Robinson St., Winnipeg

121 Ave. C. N., Saskatoon 637 Ominica St. W., Moose Jaw 17th and Central Sts., Prince Albert 6th Ave. and Lorne St., Regina

Smelter Ave., Medicine Hat 10334 - 108th St., Edmonton 410-418 9th Ave. E., Calgary 120 - 1st Ave. S., Lethbridge 10103 - 95th St., Edmonton 9111 - 111th Ave., Edmonton 803 - 24th Ave. S. E., Calgary 121st and 106th Ave., Edmonton

1210 Glen Drive, Vancouver (2 plants) 26th Ave. and Nanaimo Rd., Vancouver Grand Forks Granville Island, Vancouver 1214 Pender St. E., Vancouver Cranbrook Kamloops 323 Alexander St., W., Vancouver 172 Alexander St., Vancouver 302 West 3rd Ave., Vancouver 1375 Franklin St., Vancouver 392 - W. 2nd Ave., Vancouver 503 Powell St., Vancouver Comox Road, Nanaimo Hull & Front Sts., Nelson 101 - 1st Ave., E., Vancouver 360 - 1st Ave., W., Vancouver 435 Garbally Rd., Victoria 149 - 4th Ave. W., Vancouver

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935, - Continued.

(a) Commercial castings and forgings; pipe and fittings - concluded.

Names of Firms

BRITISH COLUMBIA - Concluded.

Ross and Howard Iron Works Co. Ltd. (F)

South Vancouver Foundry (F)

Terminal City Iron Works (F)

Vancouver Engineering Works Ltd. (F)

Victoria Machinery Depot Co. Ltd. (F)

Location of Plants

Ft. Woodland Drive, Vancouver 719 E. 52nd Ave., Vancouver 1949 Franklin St., Vancouver 519 - 6th Ave. W., Vancouver 343 Bay St., Victoria

(b) Cooking and heating apparatus

NOVA SCOTIA Cook, H. S., and Co. (F)
Thompson and Sutherland, Ltd. (F)

NEW BRUNSWICK -Enamel and Heating Products Ltd. (F) Enterprise Foundry Co. Ltd. (F) Record Stove and Furnace Co. Ltd. (F)

QUEBEC -Belanger, A. Ltée. (F) Domestic Gas Appliances, Ltd. Gurney Foundry Co. Ltd., The (F)

La Compagnie Bedard, Ltée. (F) La Fonderie de L'Islet Ltee. (F) Vapor Car Heating Co. of Canada, Ltd.

ONTARIO -Bastian-Morley, Ltd. Beach Foundry, Ltd. (F) Beaver Foundry and Furnace Works (F) Bowman Gas Range Mfg. Co. Caloric Furnace Co. Ltd., The (F) Chatham Foundry (F) Clare Bros. and Co. Ltd. (F) Doherty Mfg. Co., Ltd., The (F) Dunham, C. A. Co., Ltd. Empire Stove and Furnace Co. Ltd. (F) Findlays, Ltd. (F) General Steel Wares, Ltd. (F) Gilson Mfg. Co. Ltd. (F) Grimsby Stove and Furnace Ltd. (F) Guelph Stove Co. Ltd., The (F) Hall Foundry Co. Ltd., The Hamilton Machine Co. Harriston Stove Co. Ltd., The (F)

Water St., Yarmouth North Sydney

Main St., Sackville Lorne St., Sackville Lutz St., Moncton

65 rue St. Jean-Baptiste, Montmagny
956 Ottawa St., Montreal
96 Principal St., St.Laurent de
Montreal
L'Assomption
L'Islet Station
65 Dalhousie St., Montreal

2382 Dundas St., W., Toronto Hinton Ave., Ottawa Harvey St., Tillsonburg 10 Ernest Ave., Toronto Alliston 400 Lacroix St., Chatham 216 King St., Preston 1523 Davenport Rd., Toronto 2362 - 3rd Ave., E., Owen Sound High St., Carleton Place Adelaide St., London York Rd., Guelph John St., Grimsby Victoria Rd., Guelph Sheffield St., Hespeler 11-13 Ferguson Ave., Hamilton Harriston

DIRECTORY OF FIRMS INCLUDED IN THE CASTINGS AND FORGINGS INDUSTRY, 1935, - Concluded.

(b) Cooking and heating apparatus, Concluded.

Names of Firms

ONTARIO - Concluded.

Howard Furnace Co. Lennox Furnace Co. of Canada, Ltd. London Foundry, The (F) May Oil Burner of Canada, Ltd. Moffats, Ltd., (F) Monarch Oil Burner Co. Morash Foundry Co. (F) Myers Manufacturing Co. The New Idea Furnaces, Ltd. (F) Pease Foundry Co. Ltd. (F) Premier Automatic Coal Burner Ruud Manufacturing Co. Sands Heater Co. Ltd. Shaver Heating Specialties, Ltd. Sheldons, Ltd. (F) Spencer Foundry Co. Ltd. (F) Stewart, James, Mfg. Co. Ltd. The (F) Sturtevant, B. F., Co. of Canada, Ltd. Superior Engineering Co. Ltd. Teeswater Foundry Co. (F) Timken Silent Automatic of Canada, Ltd. Toronto Blower Co. Trane Co. of Canada, Ltd. Western Foundry Co. Ltd. (F)

ALBERTA -

Cone Water Heater Co.

BRITISH COLUMBIA -

Cook & Sons Foundry (F)
Enamel & Heating Products, Ltd. (F)
Hi-Power Furnace & Stoker Co. (F)
Kumfort Furnace Co. Ltd. (F)
Vancouver Stove and Heater Co. Ltd. (F)
Yorston Bros. Foundry (F)

Location of Plants

881 Yonge St., Toronto Berryman Ave., St. Catharines 683 Bathurst St., London 17 Elm St., Toronto Denison Rd., Weston 701 St. Clair Ave., W., Toronto Morrisburg Dresden 40 Thames St., Ingersoll Brampton 1620 Bloor St., W., Toronto 474 Bathurst St., Toronto 430 Cannon St., E., Hamilton 331 Laurier Ave. W., Ottawa 96 Grand Ave. S., Galt Fox St. Penetanguishene Tecumseh St., Woodstock Middleton St., Galt 254 Adelaide St. W., Toronto Clinton St., Teeswater Ottawa St. & Walker Road, Walkerville 156 Duke St., Toronto King & Mowat Sts., Toronto Wingham

914 - 20th St., E., Calgary

266 - 2nd Ave. E., Vancouver 2101 Government St., Victoria Bridgeport St., Lulu Island 5669 Tyne St., Vancouver 2100 - 11th Ave., W., Vancouver 1050 Boundary Rd., Vancouver

SECTION TWO - SUPPLEMENTARY TABLES GIVING TOTAL CANADIAN PRODUCTION FIGURES FOR CERTAIN COMMODITIES, REGARDLESS OF THE INDUSTRIES IN WHICH PRODUCED.

Table 12 - TOTAL PRODUCTION OF HEATING AND POWER BOILERS IN CANADA, 1934 and 1935.

	1934		1935	
Types	Number	Selling value at works	Number	Selling value at works
Heating boilers -		\$		\$
Cast iron sectional hot water and				
steam	8,279	859,062	7,186	704,198
Steel firebox - locomotive type	89	28,549	127	64,926
Horizontal return tubular	10	9,665	48	62,423
Steel water tube	9	4,753	10	30,854
Steel welded	302	115,612	291	112,397
Power boilers -				
Water tube - horizontal type	19	124,580	5	23,809
Water tube - vertical type	600	91,164	9	12,900
Water tube - bent tube type	2	16,000	25	142,997
Horizontal return tubular	72	81,001	48	55,768
Marine type - internally fired	3	14,052	3	13,249
Marine type - water tube	2	27,086	2	38,000
Steel firebox - locomotive type	11	17,686	24	21,728
Fire tube - vertical type	142	49,823	140	56,535
Boilers, type not specified	90	159,906	0 0 0	196,112
TOTAL.	0 • •	1,598,939	000	1,535,896

Table 13 - TOTAL PRODUCTION OF STOVES IN CANADA, 1934 and 1935.

Kind]	.934	1935	
	Quantity	Value	Quantity	Value
		\$	of the state of the state of the state of	\$
Coal and wood cooking stoves and ranges, all styles	74,291	2,904,462	83,201	3,232,965
cluding all heaters, circulators, Quebec, box, oak, Franklyn, globe				
or laundry	52,056 5,796	716,318 404,118	58,489 7,049	815,115 466,249
Combination for gas and electric	7	560	6	300
Combination for coal and electric Gas cooking stoves and ranges (not combinations) including all styles	1,055	104,992	1,541	133,327
with ovens. Electric cooking stoves and ranges (over 35 amperes) all styles with	20,596	783,634	23,939	858,210
ovens	18,575	1,358,050	24,094	1,782,527
attachment and oven as one unit	5,561	88,357	1,748	33,181
Electric cooking plates and grills	61,064	130,901	70,948	133,655
Gas cooking plates	3,987	30,521	3,768	10,867
TOTAL	242,988	6,521,913	274,783	7,466,396

Table 14 - TOTAL PRODUCTION OF DOMESTIC WATER HEATERS IN CANADA, 1934 and 1935.

	13	1934 1935		35
Туре	Number	Selling value at works	Number	Selling value at works
		\$		\$
Electric water heaters -				
Circulating type	2,241	28,024	4,103	28,646
Immersion type	8,308	33,727	14,899	49,265
Storage tank type	1,236	24,108	1,807	35,542
Total Electric	11,785	85,859	20,809	113,453
Gas water heaters -				
Automatic type	1,005	51,305	946	62,185
Non-automatic type	13,758	85,029	12,473	74,103
Total Gas	14,763	136,334	13,419	136,288
GRAND TOTAL	26,548	222,193	34,228	249,741

Table 15 - TOTAL PRODUCTION OF IRON AND STEEL PIPE AND TUBING IN CANADA, 1934 and 1935.

	19	34	1935	
Kinds	Short	Selling value	Short	Selling value
	tons	at works	tons	at works
		\$		\$
Cast iron soil pipe and fittings	7,322	452,456	8,093	490,961
Other cast iron pipe	12,863	598,294	12,174	577,900
Other cast iron pipe fittings	4,192	594,888	5,032	623,557
Malleable iron pipe fittings	2,974	948,290	3,584	900,257
Wrought iron pipe	873	92,875	675	78,385
Wrought iron pipe fittings	172	39,040	14	2,755
Steel pipe	49,747	4,136,565	59,664	4,800,257
Steel pipe fittings	1,345	299,555	1,528	324,292
Steel tubing (seamless, boiler		and the little of the latest o		and the state of t
tubes, cold formed, etc.)	9,951	1,096,245	10,560	1,446,693
TOTAL	89,439	8,258,208	101,324	9,245,057

Table 16 - TOTAL PRODUCTION OF IRON AND STEEL PUMPS IN CANADA, 1934 and 1935.

	Selling value at works			
Kinds	1934	1935		
	\$	\$		
Pumps - Piston, steam and electric.	287,498	464,802		
Centrifugal	455,159	341,609		
Hand	269,394	293,370		
Other	56,389	133,641		
TOTAL	1,068,840	1,233,422		
	the state of the s	COLUMN TO COMPANY COLUMN TO THE PARTY OF THE		

Table 17 - TOTAL PRODUCTION OF ENGINES IN CANADA, 1934 and 1935.

	19	34	1935	
Kinds	Number	Selling value at works	Number	Selling value at works
		\$	221	\$
Steam	0 0 0	62,413		73,519
Gasoline - Marine type, including				
outboard	2,489	459,042	3,791	592,364
Stationary type Aeroplane, handcar and	78	12,365	72	13,120
railway motor car	97	75,796	140	98,459
Diesel		0 0 0		87,234
Type not specified		68,600		73,980
Gas and oil	0 0 4	199,646		6.6.0
Total Engines (except Auto-				
mobile)		877,862	0 0 0	938,676
Automobile engines	83,036	(Not available)	6],137	(Not available)

Table 18 - TOTAL PRODUCTION OF COMMERCIAL IRON CASTINGS (SOLD AS SUCH) IN CANADA, 1934 and 1935.

	1:	934	1935	
Kinds	Short	Selling value at works	Short	Selling value at works
Grey iron castings	65,253 14,133	\$ 5,436,252 1,790,544	87,914 18,484	\$ 7,087,169 2,398,871
TOTAL	79,386	7,226,796	106,398	9,486,040

Table 19 - TOTAL PRODUCTION IN CANADA OF CERTAIN COMMODITIES AS SPECIFIED, 1934 and 1935.

	1	934	1	1935	
Items	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		*	
Furnaces, warm air	13,569	950,426	15,004	1,062,751	
Radiators, heating - Direct or					
standing type Sq.ft.		1,027,726	4,137,759	1,101,332	
Concealed type Sq.ft.		53,774	446,957	101,137	
Oil burners - Atmospheric No.	6,504	147,691	4,436	100,773	
Power No.	2,142	361,787	1,165	165,480	
Registers and grills, air xx		104,526		122,944	
Blowers for domestic furnaces No.	3,005	82,533	2,136	68,902	
Range boilers, galvanized No.	67,161	440,102	63,457	466,519	
Hardware-Carriage and saddlery. xx		539,191	000	294,061	
Builders' xx		1,452,810		2,009,483	
Other xx		1,136,512	0 0 0	1,397,746	
Bolts, nuts and rivets xx		2,897,585		3,618,606	
Chains - Auto xx		393,947	0 0 0	540,569	
Other, including chain					
sprocket xx	000	828,766	000	875,703	
Sanitaryware, cast iron,					
enamelledxx	0 0 0	914,489	0 0 0	929,423	
		,		,	

SECTION THREE - SUPPLEMENTARY DATA COVERING ALL IRON FOUNDRIES, 1935.

As mentioned in the opening paragraphs of this report, the various manufacturing concerns are classified to certain industries in accordance with the nature of their main products. Under this scheme it is possible to include under the Castings and Forgings Industry only the foundries which were engaged chiefly in making miscellaneous castings to their customers' orders or in making such specific products as cast iron or malleable iron pipe and fittings, cast iron sanitaryware, stoves and other heating equipment, etc. 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, 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 1935 there were 330 operating iron foundries distributed across Canada as follows:Ontario, 176; Quebec, 69; British Columbia, 33; Manitoba, 11; Nova Scotia, 15;
Alberta, 10; Saskatchewan, 4; New Brunswick 10; Prince Edward Island, 2. These foundries used 115,633 long tons of pig iron, 196,747 short tons of scrap iron and 73,166 short tons of foundry coke during 1935.

The total production from these works was valued at \$82,258,156 in 1935 but, of course, only a part of this total was made up of iron castings or cast iron products. Machinery, farm implements, locomotives, stoves, boilers, engines, and a variety of other products were made by these concerns which operated foundries in connection with their business. The value of custom or "commercial" castings reported under the headings of "grey iron castings" or "malleable iron castings" amounted to only \$9,486,040; other castings are reported under specific items such as "cast iron pipe", "machinery parts," etc.

The following table gives summary statistics for the firms which operated iron foundries in 1935. The figures, of course, cover the entire manufacturing operations of these 340 establishments and it is not possible from the information at hand to determine the proportions which apply to the foundry divisions only. Data under the heading "commercial iron foundries" are for the foundries which reported a production for sale under the general headings of "grey iron castings" and "malleable iron castings" and figures under the heading "other iron foundries" are for foundries which reported under specific items such as stoves, pipe, machinery, farm implements, etc.

Table 20 - PRINCIPAL STATISTICS FOR ALL IRON FOUNDRIES, 1935. Commercial Other TOTAL iron iron ALL IRON foundries foundries FOUNDRIES Number of foundries....... 330 Capital employed 53,886,441 135,464,330 189,350,771 Number of employees..... 11,583 20,069 31,652 21,602,518 Salaries and wages.....\$ 11,754,671 33,357,189 Cost of materials at works.....\$ 10,748,876 21,432,368 32,181,244 51,939,300 30,318,856 82,258,156 Selling value of products at works\$ Iron castings made for sale - short tons ... 106,398 106,398 9,486,040 9,486,040 44,760 115,633 Pig iron used..... - Long tons.. 70,873 1,524,803 931,811 2,456,614 112,335 Scrap iron and steel used .. - short tons .. 84,412 196,747 1,183,799 955,572 2,139,371 45,307 27,859 73,166 Foundry coke used - short tons .. 312,737 486,874 799,611

LIST OF CONCERNS IN OTHER INDUSTRIES WHICH OPERATED IRON FOUNDRIES, 1935.

NOTE - Foundries in the Castings and Forgings Industry are marked (F) in the directory for that industry given on pages 10 to 17 of this bulletin.

Names of Firms

NOVA SCOTIA -

Canadian Car & Foundry Co. Ltd. Hawbolt Gas Engines Robb Engineering Works Ltd. Wheel & Foundry Co. Ltd.

NEW BRUNSWICK -T. M. Meavity & Sons, Ltd.

QUEBEC -

Canadian Bronze Powder Works Ltd. incorporating Valleyfield Iron Works Canada Car & Foundry Co. Ltd. Canadian Ingersoll Rand Co. Ltd. Canadian National Railways Canadian Pacific Railway Co. Desjardins Limitee Dominion Engineering Co. Ltd. Fairbanks, E. & T., & Co. Ltd. Hardware & Woodenware Ltd. Jenkins Brothers Ltd. La Cie J. A. Gosselin Limitee La Compagnie Jutras Ltee Matthew Moody & Sons, Co. Reg'd. Montreal Locomotive Works, Ltd. Mitchell, Robert, Co. Ltd., The Plessisville Foundry, The Singer Manufacturing Co., The Superheater Co. Ltd., The Vessott, S., Co. Ltd. Warden King, Limited

ONTARIO -Babcock-Wilcox and Goldie-McCulloch, Ltd. Barbour, Chas., & Sons Beatty Bros. Ltd. Bell, Robert, Engine & Thresher Co., The Bertram, John, & Sons Co. Ltd., The Bissell, T. E., Co. Ltd. Brown Boggs Foundry & Machine Co. Ltd. Canada Iron Foundries, Ltd. Canada Machinery Corporation Ltd. Canadian Allis Chalmers Ltd. Canadian Locomotive Co. Ltd. Canadian Ornamental Iron Co. Ltd. Canadian Westinghouse Co. Ltd. Cockshutt Plow Company, Ltd. DeLaval Co. Ltd., The Dominion Radiator & Boiler Co. Ltd. Dominion Wheel & Foundries, Ltd. Fleury s, J., Sons, Limited Foster-Wheeler Limited Frost & Wood Co. Ltd., The Goodison, John, Thresher Co. Ltd., The Gurney Foundry Co. Ltd., The Hahn Brass Co. Ltd.

Location of Plants

Amherst Chester Amherst New Glasgow

Saint John

Valleyfield Montreal, (2 plants) Sherbrooke Montreal Montreal St. Andre de Kamouraska Lachine Sherbrooke Coaticook Montreal Drummondville Victoriaville Co. Terrebonne Montreal Montreal Plessisville St. Johns Sherbrooke Joliette Montreal

Galt Meaford Fergus Seaforth Dundas Elora Hamilton Fort William, Hamr ton, and St. Thomas Galt Toronto Kingston Toronto Hamilton Brantford Peterborough Brantford and Toronto Toronto and Cobourg Aurora St. Catharines Smiths Falls Sarnia Toronto New Hamburg

LIST OF CONCERNS IN OTHER INDUSTRIES WHICH OPERATED IRON FOUNDRIES, 1935 -- Concluded.

Names of Firms

ONTARIO - Concluded

Herrgot Co.

Imperial Iron Corporation Ltd.

International Harvester Co. of Canada, Ltd.

Jardine, A. B. & Co. Limited

Kennedy, William, & Sons, Ltd., The

Kondu Manufacturing Co. Ltd.

Leonard, E., & Sons, Ltd.

Link Belt Limited

Long, E. Limited

Massey Harris Co. Ltd.

Maxwells Limited

McDougall, R., Co. Ltd., The McKinnon Industries Ltd., The McLachlan, John, Estate of

Meaford Steel Products Ltd.

Mueller Ltd.

Napanee Iron Works Ltd. Oil Well Supply Co. Ltd

Ontario Steel Products Co. Ltd.

Otis-Fensom Elevator Co. Ltd.

Plant, W. P., Estate of

Pollard Manufacturing Co. Ltd.

Preston Woodworking Machinery Co. Ltd.

Renfrew Machinery Co. Ltd., The

Richardson, C., & Co. Ltd.

Sawyer Massey Ltd.

Spramotor Ltd.

Stephens-Adamson Mfg. Co of Canada, Ltd.

Taylor-Forbes, Ltd Taylor, J. & J., Ltd.

Tweed Foundries, Ltd.

United Steel Corporation Ltd.

Waterous Limited

Waterloo Manufacturing Co. Ltd., The

Watson, John, Mfg Co. Ltd., The

White, George, & Sons, Ltd.

Whittaker Fireplaces

MANITOBA -

Canadian National Railways

Canadian Pacific Railway

Dominion Wheel & Foundries, Itd. Manitoba Bridge & Iron Works Ltd.

Service Station Equipment Co. Ltd.

Strong Scott Mfg Co Ltd.

Western Auto and Truck Body Works

ALBERTA -

Canadian Pacific Railway

Coutts Machinery Co. Ltd.

Hay & Harding, Ltd

BRITISH COLUMBIA -

Allard Machine Works, Ltd.

Easthope Brothers Ltd.

Grassick, Alex.

Victoria Brass & Iron Works Ltd.

Vancouver Iron Works, Ltd.

Location of Plants

Mildmay

"St. Catharines

Hamilton

Hespeler

Owen Sound

Preston

London

Elmira and Toronto

Orillia

Brantford and Toronto

St. Mary's

Galt

St. Catharines

Cannington

Meaford

Sarnia

Napanee

Petrolia

Oshawa and Gananoque

Hamilton

Hastings

Niagara Falls

Preston

Renfrew

St. Mary's

Hamilton

London

Belleville

Guelph

Toronto

Tweed

Welland and Toronto

Brantford

Waterloo

Ayr

London

Windsor

Transcona

Winnipeg St. Boniface

Winnipeg

Winnipeg

Winnipeg

Winnipeg

Calgary

Edmonton

Calgary

New Westminster

Vancouver

Vancouver

Esquimalt

Vancouver

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