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Minister of Trade and Commerce

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

+ + + *Census of Industry* + + +

MINING, METALLURGICAL & CHEMICAL STATISTICS

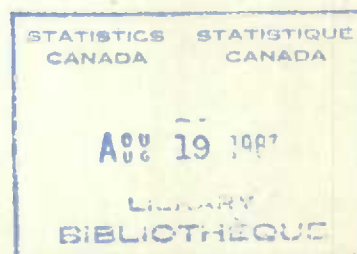
THE

BRASS & COPPER PRODUCTS INDUSTRY

IN

CANADA

1946



OTTAWA

1948

Price 25 cents



Dominion Statistician:
 Director - Division of Census of Industry and Merchandising:
 Chief - Mining, Metallurgical and Chemical Statistics:

Herbert Marshall
 W. H. Losee
 H. McLeod

Annual Industry Report

Manufactures of the Non-ferrous Metals

THE BRASS AND COPPER PRODUCTS INDUSTRY, 1946

This report covers the operations of brass foundries and other plants in Canada engaged chiefly in the manufacture of commodities (other than electrical equipment) from brass, bronze or copper. One hundred and seven foundries and 55 fabricating plants reported under this industry in 1946, and their production was valued at \$72,056,922. In 1945 the corresponding output value amounted to \$105,150,750, and in 1944 to \$149,851,354.

Products manufactured during 1946 by firms in this group included ingots, bars, rods, plates, sheets, discs, cups, tubing, and such further fabricated lines as wire cloth, valves, cartridge cases, kettles and tanks, plumbing supplies, gas and water meters, fire extinguishers, lightning rods, metal fasteners, automobile hardware, etc. Copper wire and cable, lighting fixtures, switches and other such articles for electrical purposes have not been listed in this group but have been classified to the Electrical Apparatus and Supplies Industry which is dealt with in a separate report.

Brass foundry departments which were run by iron foundries or by manufacturers of machinery, farm implements, etc., as a secondary or minor part of their operations, are not included in this group as, in such instances, separate reports were not required for the brass foundry divisions and all data concerning same were included in the industries of major importance. It is believed that there are in Canada about 300 brass foundries in all.

A total of 162 plants was included in this group during 1946, of which 97 were located in Ontario, 39 in Quebec, 16 in British Columbia, 6 in Manitoba, 1 in New Brunswick and 3 in Alberta. Ontario factories accounted for 63 per cent of the total production and Quebec's plants for 29 per cent.

The average number of employees in 1946 was 10,252 compared with 13,267 in 1945, and salaries and wages aggregated \$18,425,724 as against \$25,680,949 for the previous year.

Table 1 - PRINCIPAL STATISTICS, 1943-1946

	Number of plants	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing value of products at works \$
<u>1943</u>						
Foundries making taps, valves, etc.	13	3,946	6,661,736	301,109	5,574,401	18,319,982
Other brass and bronze foundries ..	90	11,016	21,123,463	2,146,687	64,568,455	114,057,712
Fabricating plants (not foundries).	55	6,927	12,946,002	806,428	38,197,529	60,610,024
TOTAL	158	21,899	40,731,201	3,254,224	108,330,435	192,987,718
<u>1944</u>						
Foundries making taps, valves, etc.	13	3,664	6,126,030	269,502	4,600,787	15,090,476
Other brass and bronze foundries ..	93	8,625	16,598,819	1,830,234	41,042,275	80,354,063
Fabricating plants (not foundries).	56	5,364	10,472,789	634,651	26,817,134	54,406,815
TOTAL	162	17,633	33,490,354	2,734,387	72,460,196	149,851,354
<u>1945</u>						
Foundries making taps, valves, etc.	14	3,394	5,859,274	271,278	4,203,289	13,562,602
Other brass and bronze foundries ..	94	6,422	13,246,341	1,406,050	29,766,914	55,326,436
Fabricating plants (not foundries).	53	3,451	6,575,334	414,052	19,685,492	36,261,712
TOTAL	161	13,267	25,680,949	2,091,380	53,655,695	105,150,750
<u>1946</u>						
Foundries making taps, valves, etc.	14	3,292	5,726,737	309,310	3,214,621	11,613,538
Other brass and bronze foundries ..	93	3,965	7,607,599	642,917	12,245,729	23,949,289
Fabricating plants (not foundries).	55	2,995	5,091,388	246,453	24,523,580	36,494,095
TOTAL	162	10,252	18,425,724	1,198,680	39,983,930	72,056,922

For FOOTNOTE see Page 2.

Note: Above data for foundries are only for the foundries which were occupied chiefly in making valves, plumbers' goods, castings, etc., as their regular line of goods for sale. Brass foundry departments which were run by iron foundries or by manufacturers of machinery, etc., as a secondary or minor part of their operations are not included as, in such cases, separate reports were not required for the brass foundry divisions. Ingot makers are included with foundries as also are the concerns which make brass and roll same into rods, sheets, cartridge discs, etc.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946

Province	Number of plants	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
1945						
Quebec	40	3,932	7,370,937	768,378	19,710,899	35,097,505
Ontario	97	8,412	16,639,815	1,209,961	32,223,202	65,912,656
British Columbia	15	280	574,750	30,431	446,969	1,287,973
Manitoba	6)					
New Brunswick ..	1)	643	1,095,447	82,610	1,274,625	2,852,616
Alberta	2)					
CANADA	161	13,267	25,680,949	2,091,380	53,655,695	105,150,750
1946						
Quebec	39	3,111	5,350,872	396,386	12,629,530	21,589,982
Ontario	97	6,200	11,517,985	688,045	25,816,184	46,536,290
British Columbia	16	260	499,380	22,806	307,471	1,003,699
Manitoba	6	175	308,991	31,532	713,782	1,416,951
New Brunswick ..	1)					
Alberta	3)	506	748,496	59,911	516,963	1,510,000
CANADA	162	10,252	18,425,724	1,198,680	39,983,930	72,056,922

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1945								
Quebec	399	198	2,864	471	3,932	1,518,940	5,851,997	7,370,937
Ontario	698	446	5,815	1,453	8,412	2,946,614	13,693,201	16,639,815
British Columbia	37	11	230	2	280	129,742	445,008	574,750
Other provinces.	104	32	415	92	643	345,667	749,780	1,095,447
CANADA	1,238	687	9,324	2,018	13,267	4,940,963	20,739,986	25,680,949
1946								
Quebec	353	164	2,278	316	3,111	1,301,653	4,049,219	5,350,872
Ontario	678	396	4,187	939	6,200	2,864,607	8,653,378	11,517,985
British Columbia	43	9	204	4	260	118,839	380,541	499,380
Other provinces.	86	27	482	86	681	287,801	769,686	1,057,487
CANADA	1,160	596	7,151	1,345	10,252	4,572,900	13,852,824	18,425,724

Table 4 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work day of each month)

Month	1945			1946		
	Male	Female	TOTAL	Male	Female	TOTAL
January	11,470	2,616	14,086	7,559	1,376	8,935
February	12,026	2,829	14,855	7,632	1,428	9,060
March	11,903	2,905	14,808	7,672	1,343	9,015
April	11,619	3,155	14,774	7,633	1,374	9,007
May	10,573	2,687	13,260	7,169	1,388	8,557
June	9,159	1,897	11,056	6,503	1,324	7,827
July	8,660	1,727	10,387	6,505	1,280	7,785
August	7,335	1,310	8,645	6,546	1,268	7,814
September	7,120	1,244	8,364	6,532	1,271	7,803
October	7,250	1,267	8,517	6,816	1,301	8,117
November	7,392	1,282	8,674	7,591	1,398	8,989
December	7,415	1,267	8,682	7,639	1,375	9,014
AVERAGE	9,324	2,018	11,342	7,151	1,345	8,496

Table 5 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal—Canadian	ton	10,256	95,198	4,526	39,876
Imported	ton	32,423	290,432	19,820	173,420
Anthracite coal	ton	2,135	20,522	2,739	23,403
Lignite coal	ton	181	1,454	122	1,422
Coke	ton	1,866	24,622	1,824	27,755
Gasoline	Imp.gal.	164,028	45,141	98,329	30,310
Kerosene	Imp.gal.	24,903	4,158	19,721	2,969
Fuel oil	Imp.gal.	5,340,268	475,148	3,522,867	312,320
Wood	cord	321	3,220	602	3,671
Gas—Manufactured	M cu.ft.	154,674	98,578	52,944	40,966
Natural	M cu.ft.	64,625	42,052	51,111	31,708
Other fuel .....	...	...	78,609	...	41,135
Electricity purchased ...	K.W.H.	101,415,533	912,248	48,875,473	469,725
TOTAL .....	...	...	2,091,380	...	1,198,880

Table 6 - POWER EQUIPMENT, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1945				
Steam engines and turbines	4	393	4	601
Gasoline, gas and oil engines	2	82	...	...
Hydraulic turbines or water wheels ...	1	25	...	...
Electric motors run by purchased power	6,172	62,130	1,181	16,736
TOTAL	6,179	62,630	1,185	17,337
Stationary boilers	23	3,740	4	1,090
Motor-generator sets	42	11,081	2	1,200
1946				
Steam engines and turbines	4	335	2	550
Gasoline, gas and oil engines	2	82	...	...
Hydraulic turbines or water wheels ...	1	25	...	...
Electric motors run by purchased power	4,975	31,951	293	3,376
TOTAL	4,982	32,393	295	3,926
Stationary power boilers	39	2,970	3	380
Motor-generator sets	39	5,493k.v.a.	1	475 k.v.a.

Table 7 - MATERIALS USED IN MANUFACTURING, 1945 and 1946

Material	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Aluminum—Ingots	lb.	2,147,880	334,518	2,570,470	363,888
Scrap	lb.	1,808,275	247,843	2,311,514	220,525
Other forms	lb.	...	42,129	1,150,910	327,365
Antimony	lb.	28,437	3,238	41,500	6,434
Brass—Ingots	lb.	11,387,637	1,472,581	10,402,354	1,351,107
Scrap	lb.	51,286,492	4,193,122	18,133,828	1,436,765
Bars and rods	lb.	8,651,611	1,265,242	3,686,471	559,615
Discs for cartridge cases	lb.	56,622,380	9,697,765	...	5,795,419
Plates, sheets and strip	lb.	1,989,204	475,709	2,108,432	499,259
Pipe and tubing	lb.	1,258,238	292,200	488,848	142,596
Wire	lb.	907,184	217,906	1,165,506	305,473
Castings	lb.	1,557,396	458,253	551,544	189,301
Other forms	lb.	...	63,079	582,512	171,650
Bronze—Ingots—Aluminum bronze	lb.	235,382	34,935	186,644	27,041
Manganese bronze	lb.	612,557	87,993	242,711	34,313
Phosphor bronze	lb.	367,789	52,323	320,842	48,536
Silicon bronze	lb.	136,034	20,988	176,803	31,658
All other bronze ingots.	lb.	10,512,976	1,779,118	10,921,238	1,491,185

Table 7 - MATERIALS USED IN MANUFACTURING, 1945 and 1946 (Concluded)

Material	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bronze--Scrap	lb.	23,348,693	2,132,624	23,284,332	2,135,450
Bars and rods	lb.	54,350	13,554	49,874	11,696
Plates, sheets and strip	lb.	232,218	46,425	304,380	67,624
Wire	lb.	978,781	452,555	1,104,614	578,924
Castings	lb.	236,034	77,866	58,530	14,570
Other forms	lb.	...	2,250	15,069	4,850
Copper--Ingots, slabs, wire bars, etc.	lb.	169,145,990	21,435,147	149,456,048	17,430,464
Scrap	lb.	7,656,248	836,283	6,943,241	736,609
Rods	lb.	23,174	7,373	19,449	4,854
Pipe and tubing	lb.	191,476	50,622	315,221	85,825
Plates, sheets and strip	lb.	871,352	252,382	887,353	242,717
Wire	lb.	484,480	110,793	794,625	187,464
Other forms	lb.	...	123,697	61,777	22,284
Lead--Pig	lb.	1,771,078	91,684	1,272,109	66,248
Scrap	lb.	656,775	31,588	821,115	37,992
Other forms	lb.	...	44,039	15,761	20,955
Magnesium	lb.	66,116	16,729	17,266	5,651
Manganese metal	lb.	...	1,733	5,428	1,320
Monel metal	lb.	168,504	56,691	201,634	71,865
Nickel	lb.	267,518	78,717	251,196	61,011
Nickel-copper shot	lb.	37,372	10,283	46,287	11,889
Nickel-silver, all forms	lb.	776,402	98,855	973,857	127,671
Silicon metal	lb.	5,566	920	17,148	3,108
Silver, fine	fine oz.	1,270	600	1,090	1,035
Tin--Ingots--Phosphor tin	lb.	102,487	82,540	109,115	89,047
Other tin ingots	lb.	536,296	353,904	416,842	303,142
Scrap	lb.	57,575	18,409	111,502	19,517
Other forms	lb.	163,609	77,281	...	40,832
Zinc--Ingots and slabs	lb.	33,039,749	1,904,665	6,476,321	372,426
Scrap	lb.	1,113,082	40,099	582,505	20,547
Sheets	lb.	333,935	43,284	492,159	75,895
Other forms	lb.	...	8,566	137,464	22,153
Other non-ferrous metals	lb.	...	279,568	1,584,075	267,235
Iron and steel--Pig iron	net tons	2,170	58,781	3,851	114,133
Iron castings	tons	642	105,461	1,082	150,349
Steel castings	tons	150	68,330	105	47,144
Steel bars and rods ...	tons	513	98,575	386	80,337
Steel wire	tons	946	129,554	843	169,472
Steel sheets	tons	521	87,179	468	68,267
Iron and steel scrap ..	tons	974	23,712	2,374	47,430
Other iron and steel ..	tons	...	336,834	292	133,463
Lumber	M bd.ft.	776	53,646	803	56,110
Crucibles .....	...	...	76,728	...	43,651
Foundry coke	tons	5,302	79,197	4,636	65,644
Foundry facings	lb.	176,418	7,603	129,624	5,747
Foundry sands	tons	10,503	71,382	7,983	50,008
Graphite	lb.	222,411	16,510	47,470	7,011
Refractories .....	...	...	29,709	...	15,448
Other materials .....	...	...	2,485,528	...	2,493,128
Containers and packing materials .....	...	...	406,318	...	293,608
TOTAL ALL MATERIALS .....	...	...	53,655,695	...	39,983,830

Table 8 - PRODUCTS MADE, 1945 and 1946

Note: The data in this table are for the Brass and Copper Products Industry only and do not necessarily represent the total Canadian output of the items that are listed. Concerns in other industries may have made such articles as secondary products.

	Unit of measure	1945		1946	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
Aluminum - Castings	lb.	1,646,535	1,242,867	1,864,613	1,057,354
Other forms .....	...	...	360,447	...	463,019
Brass and bronze -					
Ingots	ton	10,060	2,848,251	9,280	2,526,445
Castings	ton	18,852	8,598,327	17,089	7,162,176
Scrap	ton	4,362	710,552	515	75,043
Discs and cups for cartridges..	...	...	21,053,144	...	...
Cartridge cases .....	...	...	7,626,471	...	6,898,164
Other forms (a)	ton	41,142	14,025,445	12,872	5,221,916
Copper sheets, wire rods, tubing, etc.	ton	50,774	18,170,756	68,635	19,101,205
Aircraft parts .....	...	...	412,486	...	...
Fire extinguishers .....	...	...	1,060,185	...	629,410
Hardware .....	...	...	227,077	...	372,239
Lighting fixtures .....	...	...	218,110	...	269,074
Lighting rods and supplies .....	...	...	151,837	...	278,721
Metal fasteners, all kinds .....	...	...	1,340,321	...	2,095,047
Meters, gas and water	No.	64,392	785,567	77,197	986,786
Plumbers' brass fittings (b) -					
Tub fillers and showers .....	...	...	304,381	...	431,034
Traps, drains, supplies and other tubular fittings .....	...	...	491,633	...	553,978
Stops and stop and drains .....	...	...	558,572	...	647,255
Sink faucets .....	...	...	662,197	...	821,466
Lavatory and bath faucets .....	...	...	527,532	...	586,497
Closet tank fittings .....	...	...	172,883	...	161,810
Any other plumbing fittings ...	...	...	481,238	...	1,561,660
Valves - Iron and steel body .....	...	...	2,851,814	...	1,597,243
Brass and bronze, including radiator valves and traps .....	...	...	1,818,514	...	2,582,775
Ships' fittings .....	...	...	685,285	...	263,261
Steam boiler trimmings, including gauge cocks and water gauge mountings .....	...	...	280,928	...	113,357
Wire cloth of brass, bronze or monel	sq.ft.	3,857,772	2,529,370	4,173,990	2,957,297
All other products, including munitions and special war work (c) .....	...	...	14,974,560	...	12,842,690
TOTAL ALL PRODUCTS .....	...	...	105,150,750	...	72,056,922

(a) Includes bars, rods, sheets, strips, tubing, powder, etc.

(b) There was also a production of plumbers' brass goods in the Iron and Steel industries amounting to \$773,842 in 1944; \$881,893 in 1945, and \$1,294,287 in 1946.

(c) Includes tire valves, railway car fittings, pins, kettles, cosmetic containers, gauges, brewery distillation equipment, etc.

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1946

Note: This Directory carries only the names of the concerns which the Bureau has classified to the Brass and Copper Products Industry. This industry includes all works which were engaged chiefly in making brass and bronze or articles (other than wire or electrical equipment) from brass, bronze and copper. Manufacturers of copper wire and cable and of electrical equipment have been classified to the Electrical Apparatus Industry, which is covered in a separate bulletin. A complete list of brass foundries may be obtained by writing direct to the Dominion Bureau of Statistics, Ottawa, Canada.

Name of Firm	Location of Plant
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(a) Foundries Engaged Chiefly in Making Brass Valves,
Taps, Plumbers' Supplies, etc.

New Brunswick -

McAvity & Sons, T., Ltd.

Rothsay Ave., Saint John

Quebec -

Cuthbert, W. R., & Co.

55 Duke St., Montreal

Golden Gate Manufacturing Co. Ltd.

361 Youville St., Montreal

Jenkins Bros. Limited

617 St. Remi St., Montreal, and

St. Joseph St., Lachine

Robertson, James, Company Limited

946 William St., Montreal

Ontario -

Canadian Brass Company, Limited

415 Dundas St., Galt

Empire Brass Manufacturing Company Limited

Dundas St. E., London

Galt Brass Company, Limited

471 Dundas St., Galt

Morrison, James, Brass Manufacturing Co. Ltd.

276 King St. W., Toronto

Mueller, Limited

Clifford St., Sarnia

Penberthy Injector Co. Limited

159 Windsor Ave., Windsor

Wallaceburg Brass Ltd.

Wallaceburg

Wolverine Brass Company Limited

78 Nelson St., Toronto

(b) Firms Engaged Chiefly in Operating Brass and Bronze Foundries
(Other Than for Valves, Taps, etc.)

Quebec -

A. Archambault Brass & Aluminum Foundry Reg'd.

8010 Henri Julien St., Montreal

Bougie, Roland

220 Ellice, Valleyfield

Bouliane Brass Foundry

2020 Labreque St., Montreal

Canadian Bronze Powder Works Limited

Valleyfield

Canada Strip Mill Ltd., Montreal Division

Sherbrooke and Durocher Sts., Montreal East

Chevalt & Fils and National Foundry Reg'd.

10 Mont Vernon St., Ville St. Pierre

Dominion Brass & Aluminum Foundry Co.

24 Mont Vernon Ave., Ville St. Pierre

Clark, C. O., & Bros. Ltd.

5010 St. Patrick St., Montreal

Eastern Brass Foundry, Limited

514 Harbour St., Montreal

Empire Brass Foundry Limited

137 Nazareth St., Montreal

Hazel, James & Son

130 Mgr. Gauvreau St., Quebec

Industrial Pattern & Foundry Works, Reg'd.

1427 Maisonneuve St., Montreal

Miller's Brass Foundry, Reg'd.

791 Hertel St., Three Rivers

Mitchell, Robert, Co. Limited, The

750 Belair Ave., Montreal, and

102 Monkland Blvd., St. Laurent

Montreal Bronze Limited

999 Delorimier Ave., Montreal

Progress Brass & Aluminum Foundry

4863 St. Lawrence Blvd., Montreal

Regent Brass Foundry

7399 St. Hubert St., Montreal

Reliance Foundry

915 St. Martin St., Montreal

St. Jérôme Industries Ltd.

West Castonguay St., St. Jérôme

Union Screen Plate Company of Canada, Limited

72 Main St., Lennoxville

Vandervoort Foundry

2005 Dorchester St. E., Montreal

Victory Brass & Aluminum Foundry

5244A Casgrain St., Montreal

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1946
(Continued)

Name of Firm	Location of Plant
(b) Firms Engaged Chiefly in Operating Brass and Bronze Foundries (Other than for Valves, Taps, etc.) - (Continued)	
<u>Ontario -</u>	
Acme Brass Company	Horner Ave., Etobicoke
Anaconda American Brass Limited	8th Street, New Toronto
Atkins & Hoyle Limited	69 Portland St., Toronto
Beare Brass Foundry	57 Grey St., Brantford
Bowman Bronze Company	26 Railway St., Hamilton
Canadian General Electric Company Limited	Lansdowne Ave., Toronto
Central Brass Foundry	48 Aball St., Toronto
Chadwick Carrol Brass & Fixtures Ltd.	365 Wilson St., Hamilton
Coulter Copper & Brass Company, Limited	115 Sumach St., Toronto
Dominion Gas Meter Company, Limited, The	328 Wortley Road, London
Elmira Aluminum Specialties	Elmira
Ferguson, Robt. J., & Sons	64 Booth St., Ottawa
Fisher and Son	366 Wilson St., Hamilton
Guelph Brass & Aluminum	17 Division St., Guelph
Industrial Fine Castings Ltd.	272 Geary Ave., Toronto
Kilby, Wm., & Son	360 East St., Orillia
Kitchener Brass & Aluminum Foundry	388 Wendell Ave., Kitchener
Lawrence, T. C., & Sons	17 Jarvis St., Galt
The Long Branch Foundry	28 Brown's Line, Toronto
May Foundry Co.	2018 Buchanan St., Niagara Falls
McKay Smelters, Limited	25 McKay St., Eastview
Modern Aluminum & Brass Foundry	24 Walton St., Toronto
National Brass & Aluminum Foundry	117 St. Patrick St., Toronto
Niagara Bronze	747 Buttery St., Niagara Falls
Ottawa Car and Aircraft Limited	424 Slater St., Ottawa
Paramount Metals	123 Jackson St. E., Hamilton
Petrie Brass Company	163 Sterling Road, Toronto
Potts Pattern Works Ltd.	1979 Dundas St. W., Toronto
Precision Centrifugal Castings	30 Bridgman St., Toronto
Precision Dies & Castings Limited	156 St. Helens Ave., Toronto
Quality Brass Foundry	1244 Dufferin St., Toronto
Queen City Brass Foundry	28 Dalhousie St., Toronto
Rahn Metals Limited	Regina St., North Bay
Robinson, J., & Son	2 Hinton Ave., Ottawa
St. Catharines Brass Works, Ltd.	62 George St., St. Catharines
St. Thomas Bronze Company, Limited	First Ave., St. Thomas
Sheratt, W., & Son	6 Britain St., Toronto
Sloski, E.	71 Browns Ave., Toronto
Standard Brass & Aluminum Foundry	70 Kingsmill Ave., Guelph
Standard Brass Foundry	561 Catharine St. N., Hamilton
Stoermer Bell & Brass Foundry	Kitchener
Stratford Brass Company, Limited, The	342 Erie St., Stratford
Tallman, A. H., Bronze Company Limited	Cavell Ave., Hamilton
Thunder Bay Foundries	12 Gordon Ave., Port Arthur
Wagman, Z., & Son Ltd.	190 Edwin Ave., Toronto
Wilson Brass & Aluminum Foundries	5 Hamilton St., Toronto
Wilson & Cousins, Limited	35 McCaul St., Toronto
Windsor Brass Works, Limited	408 Hanna St. E., Windsor
Windsor Match Plates Co.	911 Cadillac St., Windsor
York Brass & Aluminum Foundry Ltd.	6 Widmer St., Toronto
Zenith Alloys Company	18 Dundas St., Brantford

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1946
(Continued)

Name of Firm	Location of Plant
(b) Firms Engaged Chiefly in Operating Brass and Bronze Foundries (Other than for Valves, Taps, etc.) - (Concluded)	
<u>Manitoba -</u>	
Bay Bronze Co.	Pacific and Yoeman Sts., Winnipeg
Northwestern Brass, Limited	13 Bury St., Winnipeg
Western Canada Bronze Company	595 Clifton St., Winnipeg
Winnipeg Brass Limited	600 Clifton St., Winnipeg
<u>Alberta -</u>	
Northwestern Brass, Limited	1609 .. 24th Avenue East, Calgary
Paragon Bronze & Aluminum Products	511 .. 3rd Ave. W., Calgary
<u>British Columbia -</u>	
A-I Pattern Shop & Brass Foundry	29 West 3rd Ave., Vancouver
Cook & Son Foundry	546 West 6th Ave., Vancouver
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Lansco Foundries Limited	1865 West Georgia St., Vancouver
McPhail, Wm., & Sons (Canada) Ltd.	251 East Second Ave., Vancouver
Northwestern Brass & Bronze Foundry	1869 West Georgia St., Vancouver
Ornamental Bronze Company, Ltd.	1125 Vernon Drive, Vancouver
Pacific Bronze Co.	244 Woodland Drive, Vancouver
Smith Bros. Foundry, Limited	632 Pembroke St., Victoria
Star Foundry, Limited	194 West Third Ave., Vancouver
Sumner Brass Foundry Ltd.	619 Bidwell St., Vancouver
Vancouver Metals Company Limited	2235 Triumph St., Vancouver
Westcoast Metal Products	1175 Glen Drive, Vancouver
Wilson's Brass Foundry	22 East Second Ave., Vancouver
(c) Firms Engaged Chiefly in Making Fabricated Articles (Not Foundries)	
<u>Quebec -</u>	
Booth-Coulter Coppersmithing Co. Ltd.	997 Wellington St., Montreal
Canada Wire & Cable Co. Limited	Sherbrooke and Durocher Sts., Montreal East
Cassidy and Maillard, Limited	1575 Craig St. E., Montreal
Christie, George, Canada, Ltd.	2106 Bellefueille St., Three Rivers
Clix Fastener Corporation	425 River St., Montreal
Fayle Coppersmith Works Limited	910 Wellington St., Montreal
Frigo Ltée	1290 Jean Talon Est, Montreal
Guard-X Reg'd.	6579 St. Denis St., Montreal
Imperial Pin Co. Limited	2210 Parthenais St., Montreal
Johnson Wire Works, Ltd., The	4760 Dagenais St., Montreal
Fly Fast Ltd.	420 St. Peter St. W., Montreal
Whitehouse, A. E. and Sons Limited	970 St. George St., Montreal
<u>Ontario -</u>	
Air-Coils Mfg. Co. Ltd.	Brock St., Oakville
Booth, W. E., Co. Ltd.	12 Mercer St., Toronto
Breen Wire Products Ltd.	64 Merton St., Toronto
Canadian Fire Hose Company, Limited	Brock St., Brockville
Brydon Brass Manufacturing Co. Limited	927 Dufferin St., Toronto
Canadian Meter Company, Limited	90 Caroline St. N., Hamilton
Canadian Terrazzo Metal Strip Co. Ltd.	330 Geary Ave., Toronto
Capital Wire Cloth & Manufacturing Co. Ltd., The	Hinton Ave., Ottawa
Dean Brothers	132 Simcoe St., Toronto
De Long Hook & Eye Co. of Canada, Limited	Emily St., St. Mary's
Dodd & Struthers	1721 Moy Avenue, Windsor
Dominion Brass Products Ltd.	65 Saulter St., Toronto
Dominion Bridge Company Ltd.	289 Sorauren Ave., Toronto
Dominion Lightning Rod Company	63 Main St., Dundas
Durham Pure Copper Lightning Rod Conductor	Queen St., Durham

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1948
(Concluded)

Name of Firm	Location of Plant
(c) <u>Firms Engaged Chiefly in Making Fabricated Articles (Not Foundries)</u> (Concluded)	
<u>Ontario (Concluded) -</u>	
Flash Fasteners of Canada, Limited	474 Bathurst St., Toronto
Hahn Brass Co. Ltd.	Waterloo St., New Hamburg
Hudson Aluminum Ware	370 Dufferin St., Toronto
Jeune Metal Products Limited	9 Noble St., Toronto
Johnston Copper & Brass Limited	9 New St., Toronto
Lauder Brass Company Limited	186 Adelaide St. W., Toronto
Metal Textile Corporation of Canada, Ltd.	126 Catherine St. N., Hamilton
Millman, W. H., & Sons	107 Front St. E., Toronto
Neptune Meters, Limited	Long Branch
Niagara Wire Weaving Company Limited	Robinson St., Niagara Falls
Ottawa Brass Mfg. Co.	542 Wellington St., Ottawa
Patterson & Heward	319 King St. W., Toronto
Phillips, B., Company Limited	32 Osborne Ave., Toronto
Phillips Electrical Works Ltd.	Kingston Road, Brockville
Pyrene Manufacturing Co. of Canada, Limited	91 East Don Roadway, Toronto
Riverdale Copper & Brass Works	160 Duchess St., Toronto
Schrader's, A., Son, Division Scovill Manufacturing Company	334 King St. E., Toronto
S & S Metal Spinning Company	3300 Dundas St. W., Toronto 9
Standard Meter Company Limited, The	10 Morrow Ave., Toronto
Toronto Coppersmithing Company	26 Knox Avenue, Toronto
Toronto Metal Spinning Limited	32 Eastern Ave., Toronto
United-Carr Fastener Company of Canada, Limited	Gage Ave. and Beach Road, Hamilton
Universal Lightning Rod Company	Hespeler
<u>Manitoba -</u>	
Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanesa Mutual Insurance Co. (Commercial Department)	Wawanesa
<u>Alberta -</u>	
Winter's Metal Spinning Works	Calgary
<u>British Columbia -</u>	
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
McDonnell Metal Manufacturing Company Limited	75 West 3rd Ave., Vancouver



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