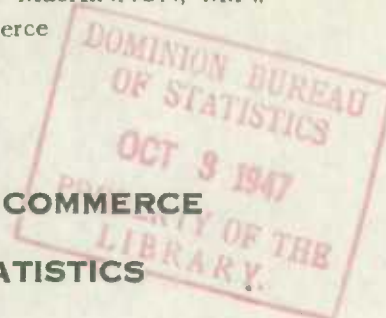


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Minister of Trade and Commerce

CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS



+ + + *Census of Industry* + + +

MINING, METALLURGICAL & CHEMICAL STATISTICS

THE
BRASS & COPPER PRODUCTS INDUSTRY
IN
CANADA
1945



OTTAWA
1947

Price 25 cents

41-202
C.3

MINISTRY OF THE INTERIOR
DEPARTMENT OF THE INTERIOR
BUREAU OF STATISTICS

Consolidated
MINING, METALLURGICAL & OTHER INDUSTRIES

THE
BRASS & COPPER INDUSTRIES

IN
CANADA
1922



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 REPORTMANUFACTURES OF THE NON-FERROUS METALSTHE BRASS AND COPPER PRODUCTS INDUSTRY, 1945

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 eight foundries and 53 fabricating plants reported under this industry in 1945 and their production was valued at \$105,150,750. In 1944 the corresponding output value amounted to \$149,851,354 and in 1943 to \$192,967,718.

Products manufactured during 1945 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 350 brass foundries in all.

A total of 161 plants was included in this group during 1945, of which 97 were located in Ontario, 40 in Quebec, 15 in British Columbia, 6 in Manitoba, 1 in New Brunswick and 2 in Alberta. Ontario's factories accounted for 63 per cent of the total production and Quebec's plants for 33 per cent.

The average number of employees in 1945 was 13,267 compared with 17,633 in 1944 and salaries and wages aggregated \$25,680,949 as against \$33,490,354 for the previous year.

Table 1 - PRINCIPAL STATISTICS, 1942 - 1945

	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>1942</u>						
Foundries making taps, valves, etc..	13	3,810	5,907,812	257,060	6,204,074	18,030,253
Other brass and bronze foundries ...	79	10,070	18,012,594	1,849,122	59,762,016	114,104,493
Fabricating plants (not foundries)..	57	3,574	5,348,624	271,126	19,486,604	32,156,604
TOTAL.....	149	17,454	29,269,030	2,377,308	85,452,694	164,291,350
<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

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, 1944 and 1945

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
			\$	\$	\$	\$
1944						
Quebec.....	40	4,585	8,604,564	963,289	21,782,483	41,835,878
Ontario.....	99	12,074	23,106,867	1,658,724	48,852,230	103,330,148
British Columbia..	15	326	665,499	32,283	529,681	1,638,511
Manitoba.....	6)					
New Brunswick.....	1)	648	1,113,424	80,091	1,295,802	3,046,817
Alberta.....	1)					
CANADA.....	162	17,633	33,490,354	2,734,387	72,460,196	149,851,354
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

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1944, and 1945

Province	Average Number of Employees					TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages						
	Male	Female	Male	Female					
1944									
Quebec.....	409	228	3,475	473	4,585	1,575,340	7,029,224	8,604,564	
Ontario.....	751	549	8,025	2,749	12,074	3,181,889	19,924,978	23,106,867	
British Columbia..	38	10	265	13	326	132,233	533,266	665,499	
Other provinces ..	97	35	404	112	648	346,519	766,905	1,113,424	
CANADA	1,295	822	12,169	3,347	17,633	5,235,981	28,254,373	33,490,354	
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	

Table 4 - WAGE-EARNERS, BY MONTHS, 1944 and 1945 (On the last work day of each month)

Month	1944			1945		
	Male	Female	TOTAL	Male	Female	TOTAL
January	13,534	3,850	17,384	11,470	2,616	14,086
February.....	12,967	3,738	16,705	12,026	2,829	14,855
March.....	12,842	3,795	16,637	11,903	2,905	14,808
April.....	12,864	3,756	16,620	11,619	3,155	14,774
May.....	12,776	3,764	16,540	10,573	2,687	13,260
June.....	12,957	3,766	16,723	9,159	1,897	11,056
July.....	12,143	3,306	15,449	8,660	1,727	10,387
August.....	11,714	2,905	14,619	7,335	1,310	8,645
September.....	11,327	2,724	14,051	7,120	1,244	8,364
October.....	11,024	2,940	13,964	7,250	1,267	8,517
November.....	10,936	2,880	13,816	7,392	1,282	8,674
December.....	10,937	2,738	13,675	7,415	1,267	8,682
AVERAGE	12,169	3,347	15,516	9,324	2,018	11,342

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1944 and 1945 (In one week in month of highest employment; overtime included)

Hours Worked per Week	Number of Wage-earners			
	1944		1945	
	Male	Female	Male	Female
30 hours or less.....	970	359	658	193
31-43 hours.....	1,960	879	1,920	637
44 hours.....	906	437	905	260
45-47 hours.....	813	265	893	362
48 hours.....	2,464	588	4,804	1,440
49-50 hours.....	1,821	991	991	129
51-54 hours.....	2,093	631	941	85
55 hours.....	311	20	225	78
56-64 hours.....	2,166	203	1,336	119
65 hours and over.....	787	12	361	1
TOTAL.....	14,291	4,385	13,034	3,304
Total wages paid in selected week..	\$ 550,905	119,984	501,746	90,772

Table 6 - FUEL AND ELECTRICITY USED, 1944 and 1945

Kind	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian...	ton	10,690	95,246	10,256	95,198
Imported...	ton	40,075	349,906	32,423	290,432
Anthracite coal.....	ton	2,563	25,828	2,135	20,522
Lignite coal.....	ton	118	1,286	131	1,454
Coke.....	ton	2,509	33,440	1,866	24,622
Gasoline.....	Imp. gal.	224,727	57,893	164,028	45,141
Kerosene.....	Imp. gal.	30,169	5,249	24,903	4,156
Fuel Oil.....	Imp. gal.	6,776,860	602,421	5,340,268	475,148
Wood.....	cord	289	3,129	321	3,220
Gas - Manufactured.....	M. cu. ft.	231,390	143,911	154,674	98,578
Natural.....	M. cu. ft.	106,372	91,833	64,625	42,052
Other fuel.....	...	...	80,264	...	78,609
Electricity purchased.....	K. W. H.	152,033,514	1,243,981	101,415,533	912,248
TOTAL.....	...	...	2,734,387	...	2,091,380

Table 7 - POWER EQUIPMENT, 1944 and 1945

	Ordinarily in Use		In Reserve or Idle	
	Number	Total rated	Number	Total rated
	of units	horse power	of units	horse power
1944				
Steam engines and turbines	4	393	4	650
Gasoline, gas and oil engines.....	2	82	...	...
Hydraulic turbines or water wheels.....	1	25	...	...
Electric motors run by purchased power..	7,018	75,426	567	6,986
TOTAL.....	7,025	75,926	571	7,636
Stationary boilers.....	25	4,255	5	965
Motor-generator sets.....	43	11,569	3	710
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 power boilers.....	23	3,740	4	1,090
Motor-generator sets.....	42	11,081	2	1,200

Table 8 - MATERIALS USED IN MANUFACTURING, 1944 and 1945

		1 9 4 4		1 9 4 5	
Material	Unit of measure	Quantity	Cost at works \$	Quantity	Cost at works \$
Aluminum -					
Ingots.....	lb.	1,700,107	346,117	2,147,880	334,518
Scrap.....	lb.	2,019,386	276,879	1,808,275	247,843
Other forms.....	...	...	133,197	...	42,129
Antimony.....	lb.	20,780	3,779	138,437	20,238
Brass -					
Ingots.....	lb.	12,390,690	1,625,746	11,267,637	1,455,581
Scrap.....	lb.	69,760,418	5,366,177	51,286,492	4,193,122
Bars and rods.....	lb.	13,732,932	1,904,818	8,651,611	1,265,242
Discs for cartridge cases (purchased).....	lb.	114,801,612	19,015,535	56,622,380	9,697,765
Plates, sheets and strip.....	lb.	2,578,817	541,462	1,989,204	475,709
Pipe and tubing.....	lb.	2,048,840	422,997	1,258,238	292,200
Wire.....	lb.	784,559	197,965	907,184	217,906
Castings.....	lb.	1,088,643	351,203	1,557,396	458,253
Other forms.....	...	...	59,485	...	63,079
Bronze -					
Ingots.....	lb.	15,051,453	2,146,980	11,864,538	1,975,357
Scrap.....	lb.	21,863,445	2,147,199	23,348,693	2,132,624
Bars and rods.....	lb.	370,732	61,373	54,350	13,554
Plates, sheets and strip.....	lb.	269,818	55,571	232,218	46,425
Wire.....	lb.	771,292	393,480	978,781	452,555
Castings.....	lb.	764,918	221,840	236,034	77,866
Other forms.....	...	...	44,844	...	2,250
Copper -					
Ingots, slabs, wire bars, etc.	lb.	127,812,259	26,708,763	169,145,990	21,435,147
Scrap.....	lb.	8,309,097	874,522	7,656,248	836,283
Rods.....	lb.	112,854	26,209	23,174	7,373
Pipe and tubing.....	lb.	154,798	41,981	191,476	50,622
Plates, sheets and strip.....	lb.	815,359	245,443	871,352	252,382
Wire.....	lb.	294,010	60,312	484,480	110,793
Other forms.....	...	...	28,911	...	123,697
Lead -					
Pig.....	lb.	2,187,292	117,186	1,771,078	91,684
Scrap.....	lb.	775,903	33,712	656,775	31,588
Other forms.....	...	...	49,391	...	44,039
Monel metal.....	lb.	225,926	81,145	168,504	56,691
Nickel.....	lb.	109,202	38,992	267,518	78,717
Nickel - silver - all forms.....	lb.	1,014,764	134,231	776,402	98,855
Silicon metal.....	lb.	20,795	3,677	5,566	920
Silver, fine.....	oz.	800	333	1,270	600
Tin - Ingots -					
Phosphor tin.....	lb.	104,461	83,988	102,487	82,540
Other tin ingots.....	lb.	476,982	336,448	536,296	353,904
Scrap.....	lb.	47,751	17,713	57,575	18,409
Other forms.....	...	...	86,364	...	77,281
Zinc -					
Ingots and slabs.....	lb.	56,378,930	3,254,095	33,039,749	1,904,665
Scrap.....	lb.	216,857	10,589	1,113,082	40,099
Sheets.....	lb.	262,121	33,570	333,935	43,284
Other forms.....	...	...	4,855	...	8,566
Other non-ferrous metals.....	...	...	277,738	...	308,313
Iron and steel -					
Pig iron.....	ton	1,104	30,246	2,170	58,761
Iron castings.....	ton	629	119,008	642	105,461
Steel castings.....	ton	125	60,090	150	68,330
Steel bars and rods.....	ton	402	90,501	513	98,575
Steel wire.....	ton	422	94,741	946	129,554
Steel sheets.....	ton	575	94,668	521	87,179
Iron and steel scrap.....	ton	851	16,192	974	23,712
Other iron and steel.....	...	...	291,719	...	336,834
Lumber..... m bd. ft.		1,637	66,267	776	53,646

Table 8 - MATERIALS USED IN MANUFACTURING, 1944 and 1945 (Concluded)

Material	Unit of measure	1944		1945	
		Quantity	Cost at works	Quantity	Cost at work
Crucibles.....	...	...	\$ 77,030	...	\$ 76,728
Foundry coke.....	ton	4,655	63,576	5,302	79,197
Foundry facings.....	lb.	409,015	19,082	176,418	7,603
Foundry sands.....	ton	10,765	78,305	10,503	71,382
Refractories.....	...	...	41,554	...	29,709
Other materials.....	...	...	2,998,120	...	2,502,038
Containers and packing materials	...	...	452,282	...	406,218
TOTAL ALL MATERIALS.....	...	...	72,460,196	...	53,655,695

Table 9 - PRODUCTS MADE, 1944 and 1945

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	1944		1945	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
Aluminum - Castings.....	lb	1,298,499	\$ 1,032,095	1,646,535	\$ 1,242,867
Other forms.....	..	...	495,594	...	360,447
Brass and bronze -					
Ingots.....	ton	10,023	2,891,132	10,060	2,848,251
Castings.....	ton	22,110	10,001,793	18,852	8,598,327
Scrap.....	ton	6,424	1,073,523	4,362	710,552
Discs and cups for cartridges....	...	...	18,887,747	...	21,033,144
Cartridge cases.....	...	...	42,109,580	...	7,626,471
Other forms (a).....	ton	59,739	19,858,559	41,142	14,025,445
Copper sheets, wire rods, tubing, etc.....	ton	54,217	16,333,046	50,774	18,170,756
Aircraft parts.....	...	...	3,507,997	...	412,486
Fire extinguishers.....	...	...	1,183,167	...	1,060,185
Hardware.....	...	...	138,224	...	227,077
Lighting fixtures.....	...	...	86,560	...	218,110
Lighting rods and supplies.....	...	...	103,363	...	151,827
Metal fasteners, all kinds.....	...	...	900,955	...	1,340,321
Meters, gas and water.....	no.	30,684	425,934	64,392	785,567
Plumbers' brass fittings (b)					
Tub fillers and showers.....	...	...	230,208	...	304,381
Traps, drains, supplies and other tubular fittings.....	...	...	374,614	...	491,623
Stops and stop and drains.....	...	...	358,445	...	558,572
Sink faucets.....	...	...	497,598	...	662,197
Lavatory and bath faucets.....	...	...	389,723	...	527,532
Closet tank fittings.....	...	...	127,938	...	172,883
Any other plumbing fittings.....	...	...	314,466	...	481,238
Valves - Iron and steel body.....	...	...	1,478,393	...	2,851,814
Brass and bronze, including radiator valves and traps.....	...	...	3,108,678	...	1,818,514
Ships' fittings.....	...	...	1,141,251	...	685,285
Steam boiler trimmings, including gauge cocks and water gauge mountings.....	...	...	233,368	...	280,928
Wire cloth of brass, bronze or Monel	sq.ft.	3,180,734	2,023,692	3,857,772	2,529,370
All other products, including munitions and special war work (c)	...	...	20,543,701	...	14,974,560
TOTAL ALL PRODUCTS.....	...	...	149,851,354	...	105,150,750

(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 and \$881,893 in 1945.

(c) Includes fuses, guines, tank parts, tire valves, railway car fittings, pins, kettles, etc.

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1945

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
--------------	-------------------

(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

76 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

Bouliane Brass Foundry

2020 Labreque St., Montreal

Canadian Bronze Powder Works Limited, and
Valleyfield Iron Works Ltd.

Valleyfield

Canada Strip Mill Ltd., Montreal Division

Sherbrooke and Durocher Sts., Montreal East

Chevalt & Fils and National Foundry Reg'd.

10 Mount Vernon St., Ville St. Pierre

Dominion Brass & Aluminum Foundry Co.

5244A Casgrain St., Montreal

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

Montreal Bronze Limited

102 Monkland Blvd., St. Laurent

Progress Brass & Aluminum Foundry

999 Delorimier Ave., Montreal

Regent Brass Foundry

4863 St. Lawrence Blvd., Montreal

Reliance Foundry

7399 St. Hubert St., Montreal

St. Jerome Industries Ltd.

915 St. Martin St., Montreal

Union Screen Plate Company of Canada, Limited

110 rue Laviolette, St. Jérôme

Vandervoort Foundry

72 Main St., Lennoxville

Victory Brass & Aluminum Foundry

2005 Dorchester St. E., Montreal

5244A Casgrain St., Montreal

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1945
(continued)

Name of Firm

Location of Plant

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

Ontario -

Anaconda American Brass Limited
 Arocast Mfg. Co. (Canada) Ltd.
 Atkins & Hoyle Limited
 Balfour's Brass Foundry
 Beare Brass Foundry
 Bowman Bronze Company
 Canada Strip Mill Limited
 Canadian General Electric Company Limited
 Central Brass Foundry
 Chadwick Carrol Brass & Fixtures Ltd.
 Coulter Copper & Brass Company, Limited
 Dempsey, Chas. W. (Guelph Brass & Aluminum)
 Dominion Arsenal Ltd.
 Dominion Gas Meter Company, Limited, The
 Elmira Aluminum Specialties
 Fairbanks Foundry Co.
 Ferguson, Robt., J., & Sons
 Fisher and Son
 Hahn Brass Co. Ltd.
 Industrial Fine Castings Ltd.
 Kilby, Wm., & Son
 Kitchener Brass & Aluminum Foundry
 Lawrence, T. C., & Sons
 May Foundry Co.
 McKay Smelters, Limited
 Modern Aluminum & Brass Foundry
 National Brass & Aluminum Foundry
 Niagara Bronze
 Ottawa Car and Aircraft Limited
 Paramount Metals
 Petrie Brass Company
 Potts Pattern Works Ltd.
 Precision Dies & Castings Limited
 Quality Brass Foundry
 Queen City Brass Foundry
 Rahn Metals Limited
 Robinson, J., & Son
 St. Catharines Brass Works, Ltd.
 St. Thomas Bronze Company, Limited
 Sheratt, W., & Son
 Sloski, E.
 Standard Brass Foundry
 Stoermer Bell & Brass Foundry
 Stratford Brass Company, Limited, The
 Sully Brass Foundry, Limited
 Tallman, A. H., Bronze Company Limited
 Thunder Bay Foundries
 Wagman, Z., & Son Ltd.
 Wilson Brass & Aluminum Foundries
 Wilson & Cousins, Limited
 Windsor Brass Works, Limited
 York Brass & Aluminum Foundry Ltd.
 Zenith Alloys Company

8th Street, New Toronto
 2433 Dufferin St., Toronto
 69 Portland St., Toronto
 65 Frederick St., Toronto
 57 Grey St., Brantford
 26 Railway Street, Hamilton
 Birmingham St., New Toronto
 Lansdowne Avenue, Toronto
 48 Aball Street, Toronto
 365 Wilson Street, Hamilton
 115 Sumach Street, Toronto
 17 Division St., Guelph
 Lindsay
 328 Wortley Road, London
 Elmira
 42 Clarkson Avenue, Toronto
 64 Booth St., Ottawa
 366 Wilson St., Hamilton
 New Hamburg
 272 Geary Ave., Toronto
 360 East St., Orillia
 388 Wendall Ave., Kitchener
 17 Jarvis St., Galt
 2018 Buchanan St., Niagara Falls
 25 McKay St., Eastview
 24 Walton St., Toronto
 117 St. Patrick St., Toronto
 747 Buttery St., Niagara Falls
 424 Slater St., Ottawa
 123 Jackson St. E., Hamilton
 163 Sterling Road, Toronto
 1979 Dundas St. W., Toronto
 156 St. Helens Ave., Toronto
 1244 Dufferin St., Toronto
 28 Dalhousie St., Toronto
 Regina St., North Bay
 2 Hinton Ave., Ottawa
 62 George St., St. Catharines
 First Ave., St. Thomas
 6 Britain St., Toronto
 71 Browns Ave., Toronto
 561 Catharine St. N., Hamilton
 Kitchener
 342 Erie St., Stratford
 7-15 Wabash Ave., Toronto
 Cavell Ave., Hamilton
 12 Gordon Ave., Port Arthur
 190 Edwin Ave., Toronto
 5 Hamilton St., Toronto
 35 McCaul St., Toronto
 408 Hanna St. E., Windsor
 6 Widmer Street, Toronto
 13 Dundas St., Brantford

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1945
(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 Yoemen 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-1 Pattern Shop & Brass Foundry	29 West 3rd Ave., Vancouver
Cook & Son Foundry	548 West 6th Ave., Vancouver
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
McPhail, Wm., & Sons (Canada) Ltd.	251 Second Avenue East, Vancouver
Ornamental Bronze Company, Ltd.	1125 Vernon Drive, Vancouver
Pacific Bronze Co.	244 Woodland Drive, Vancouver
Service Brass Foundry	237 Southern Ave., 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 Second Ave. E., Vancouver
(c) Firms Engaged Chiefly in Making Fabricated Articles (Not Foundries)	
<u>Quebec -</u>	
Blanchard Refrigeration Engr.	6351 Garnier St., Montreal
Booth-Coulter Coppersmithing Co. Ltd.	997 Wellington St., Montreal
Brass & Bronze Manufacturing Co. Ltd.	269 Craig St. W., Montreal
Canada Wire & Cable Co. Limited	Sherbrooke & Durocher Sts., Montreal E.
Cassidy and Maillard, Limited	1575 Craig St. E., Montreal
Christie, George, Canada, Ltd.	2106 Bellefueille St., Three Rivers
Fayle Coppersmith Works Limited	910 Wellington St., 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
Superior Brass Mfg.	4001 Berri St., 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 Motor Lamp Co. Ltd.	2429 Seminole St., Windsor
Canadian Terrazzo Metal Strip Co. Ltd.	292 Geary Ave., Toronto
Capital Wire Cloth & Manufacturing Co. Ltd., The	Hinton Ave., Ottawa
Dean Brothers	130 Simcoe St., Toronto
De Long Hook & Eye Co. of Canada, Limited	Emily Street, St. Mary's
Dodd & Struthers	1721 Moy Avenue, Windsor
Dominion Bridge Company Ltd.	289 Sorauren Ave., Toronto
Dominion Lightning Rod Company	63 Main St., Dundas
Flash Fasteners of Canada, Limited	474 Bathurst St., Toronto

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1945
(concluded)

Name of Firm

Location of Plant

(c) Firms Engaged Chiefly in Making Fabricated Articles (Not Foundries)
(concluded)

Ontario (Con.) -

Hudson Aluminum Ware	370 Dufferin St., Toronto
Jeune Canopy & Manufacturing Co. Ltd.	9 Noble St., Toronto
Johnston Copper & Brass Limited	9 New Street, 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, Brookville
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

Manitoba -

Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanesa Mutual Ins. Co. (Commercial Dept.)	Wawanesa

British Columbia -

Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
McDonnell Metal Manufacturing Company Limited	75 West 3rd Ave., Vancouver.

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