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FEB 15 1954



# THE BRASS AND COPPER PRODUCTS INDUSTRY 1952



*Published by Authority of*  
The Right Honourable C. D. Howe, Minister of Trade and Commerce

## DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division  
Mining, Metallurgical and Chemical Section

6502-615  
22-12-53

Price 25 cents

Vol. 2—Part XII—C-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1954.

## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries, by Provinces
  - Section 1. Principal Statistics of Major Industrial Groups and Leading Industries, 50¢
  - Section 2. Principal Statistics of Individual Industries, 75¢
  - Section 3. Principal Statistics by Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textiles
- VIII—Wood and Paper Products
- IX—Printing Trades
- X—Iron and Steel Products
- XI—Transportation Equipment
- XII—Non-ferrous Metal Products
- XIII—Electrical Apparatus and Supplies
- XIV—Non-metallic Mineral Products
- XV—Products of Petroleum and Coal
- XVI—Chemicals and Allied Products
- XVII—Miscellaneous Manufactures

The present report belongs in Part XII, Non-ferrous Metal Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Aluminum Products Industry, 25¢
- C—The Brass and Copper Products Industry, 25¢
- D—The White Metal Alloys Industry, 25¢
- E—The Jewellery and Silverware Industry, 25¢
- F—The Non-ferrous Smelting and Refining Industry, 25¢
- G—The Miscellaneous Non-ferrous Metal Products Industry, 25¢

# THE BRASS AND COPPER PRODUCTS INDUSTRY, 1952

This report covers the operations of brass foundries and other plants in Canada engaged chiefly in the manufacture of commodities (other than electrical equipment and wire cloth) from brass, bronze or copper. One hundred and thirteen foundries and 40 fabricating plants reported under this industry in 1952, and their factory shipments were valued at \$184,671,951. In 1951 the output value amounted to \$179,997,887, and in 1950 to \$126,200,549.

Products manufactured during 1952 by firms in this group included ingots, bars, rods, plates, sheets, tubing and such further fabricated lines as valves, kettles and tanks, plumbing supplies, gas and water meters, fire extinguishers, lightning rods, metal fasteners, 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. Wire cloth is covered in the Wire and Wire Goods Industry.

Note: Data presented in this bulletin for 1952 under the heading of "Production" actually represent "Factory Shipments" and therefore, are not exactly comparable with previous years.

**TABLE 1. Principal Statistics of the Brass and Copper Products Industry, 1948-1952**

Year	Number of plants	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
1948.....	168	10,661	\$ 24,251,055	\$ 1,822,927	\$ 79,921,765	\$ 122,382,484
1949.....	162	9,389	22,943,888	1,662,442	73,045,193	115,407,796
1950.....	155	8,932	22,893,180	1,808,704	82,380,983	126,200,549
1951.....	153	10,077	29,318,076	2,117,706	121,703,878	179,997,887
1952.....	153	9,711	31,034,274	2,170,803	120,999,967	184,671,951 <sup>1</sup>
Per cent change 1952 from 1951 .....	-	- 3.6	+ 5.9	+ 2.5	- 0.6	+ 2.6

1. The 1952 total represents the value of factory shipments. The inventory value of finished products at plant at end of 1951 amounted to \$5,157,000 and at end of 1952 to \$6,438,000.

Note. Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

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 153 plants was included in this group during 1952, of which 86 were located in Ontario, 37 in Quebec, 20 in British Columbia, 6 in Manitoba, 3 in Alberta and 1 in New Brunswick. Ontario factories accounted for 56 per cent of the total production and Quebec plants for 39 per cent.

The number of employees in 1952 totalled 9,711 compared with 10,077 in 1951, and salaries and wages aggregated \$31,034,274 as against \$29,318,076 for the previous year.

TABLE 2. Principal Statistics, by Provinces, 1951 and 1952

Province	Number of plants	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
1951			\$	\$	\$	\$
Quebec .....	37	3,101	8,735,203	803,156	50,540,312	68,991,364
Ontario .....	87	6,033	18,115,792	1,148,157	66,849,915	101,713,204
British Columbia .....	19	206	626,195	29,595	615,065	1,565,397
Manitoba .....	6	161	420,194	46,377	1,881,164	2,952,437
New Brunswick .....	1	576	1,420,692	90,421	1,817,422	4,775,485
Alberta .....	3					
Canada .....	153	10,077	29,318,076	2,117,706	121,703,878	179,997,887
1952						
Quebec .....	37	3,154	9,805,190	824,253	51,607,478	72,010,316
Ontario .....	86	5,642	18,595,441	1,181,594	65,444,914	103,307,400
British Columbia .....	20	219	710,386	33,276	671,111	1,710,521
Manitoba .....	6	159	471,342	44,160	1,737,731	2,907,357
New Brunswick .....	1	537	1,451,915	87,520	1,538,733	4,736,357
Alberta .....	3					
Canada .....	153	9,711	31,034,274	2,170,803	120,999,967	184,671,951

TABLE 3. Principal Statistics, by Sub-Groups, 1951 and 1952

	Number of plants	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
1951			\$	\$	\$	\$
Foundries making taps, valves, etc.	15	3,599	9,926,476	436,803	8,999,857	26,071,089
Other brass and bronze foundries .....	97	5,330	16,129,685	1,491,090	63,028,251	96,611,210
Fabricating plants (not foundries) .....	41	1,148	3,261,915	189,813	49,675,770	57,315,588
Total .....	153	10,077	29,318,076	2,117,706	121,703,878	179,997,887
1952						
Foundries making taps, valves, etc.	15	3,039	9,111,219	391,768	7,437,867	23,120,828
Other brass and bronze foundries .....	98	5,584	18,529,925	1,581,017	64,903,374	105,473,018
Fabricating plants (not foundries) .....	40	1,088	3,393,130	198,018	48,658,726	56,078,105
Total .....	153	9,711	31,034,274	2,170,803	120,999,967	184,671,951

Note. In Table 3, 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 are 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 4. Products Made in the Brass and Copper Products Industry, 1931 and 1952

Product	1951		1952	
	Quantity	Gross selling value at works	Quantity	Gross selling value at works
Aluminum:		\$		\$
Castings.....	lb.	1,394,624	1,249,528	1,249,332
Other forms .....	-	-	1,306,217	-
Brass and bronze:				
Ingots .....	tons	12,480	7,611,985	14,354
Castings.....	"	18,903	16,316,503	18,586
Scrap .....	"	604	246,464	445
Other forms (excluding cartridge cases) <sup>1</sup> .....	"	38,260	30,710,781	42,215
Copper sheets, wire rods, tubing, etc .....	"	110,736	72,614,311	108,313
Fire extinguishers, hand-type.....	-	-	1,634,554	-
Hardware .....	-	-	474,757	-
Lightning rods and supplies .....	-	-	377,366	-
Plumbers' brass fittings .....	-	-	10,118,086	-
Cast iron plumbing fixtures.....	-	-	85,194	-
Valves:				
Iron and steel body .....	-	-	3,385,821 <sup>3</sup>	-
Brass and bronze, including radiator valves and traps .....	-	-	6,771,790 <sup>3</sup>	-
Ships' fittings .....	-	-	161,274	-
Steam boiler trimmings, including gauge cocks and water gauge mountings .....	-	-	136,159	-
Amount received for repair work .....	-	-	794,547	-
All other products, including items made by only 1 or 2 concerns .....	-	-	26,007,550	-
Total all products .....	-	-	179,997,887	-
				184,671,951

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. The total production of plumbers' brass fittings and hand-type fire extinguishers from all industries is shown in Tables 5 and 6.

1. Includes bars, rods, sheets, strips, tubing, powder, etc.
2. Includes railway car fittings, kettles, cosmetic containers, gauges, brewery distillation equipment, gas and water meters, cartridge cases, etc.
3. Revised.

TABLE 5. Total Production in Canada of Plumbers' Brass Fittings, 1931 and 1952  
(From all industries)

Product	Selling value at works	
	1951	1952
	\$	\$
Tub fillers, showers, and combinations of same .....	1,930,000	1,506,000
Traps, drains, supplies and other tubular fittings .....	3,261,000	1,944,000
Stops, and stop and drains .....	1,091,000	775,000
Sink faucets and sink combinations .....	2,115,000	1,706,000
Lavatory and bath faucets, lavatory combinations .....	1,408,000	1,344,000
Closet tank fittings .....	929,000	801,000
All other brass plumbing fittings .....	2,994,000	3,783,000
Total .....	13,728,000	11,859,000

TABLE 6. Total Production in Canada of Hand-Type Fire Extinguishers, 1943-1952  
(From all industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1943 .....	1,100,000	1948 .....	967,000
1944 .....	1,283,000	1949 .....	1,225,000
1945 .....	1,308,000	1950 .....	1,464,000
1946 .....	896,000	1951 .....	1,825,000
1947 .....	713,000	1952 .....	1,840,000

TABLE 7. Materials Used in the Brass and Copper Products Industry, 1951 and 1952

Material	1951		1952	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Aluminum:				
Ingots .....	lb.	1,661,523	391,017	1,552,442
Scrap .....	"	2,947,568	623,009	3,855,521
Other forms .....	"	846,460	354,907	939,702
Antimony .....	lb.	31,539	16,704	23,676
Brass and bronze:				
Ingots .....	lb.	25,192,198	7,402,987	20,109,489
Scrap .....	"	57,626,947	13,763,489	54,900,994
Bars and rods .....	"	4,505,664	1,588,761	3,448,543
Plates, sheets and strip .....	"	2,079,991	912,926	1,837,854
Pipe and tubing .....	"	894,840	444,760	799,543
Wire .....	"	83,467	44,926	97,557
Castings .....	"	1,209,337	639,116	1,308,322
Other forms .....	"	511,917	223,031	229,241
Copper:				
Ingots, slabs, wire bars, etc. ....	lb.	260,286,417	72,577,876	255,505,345
Scrap .....	"	16,796,394	4,592,966	26,240,783
Rods .....	"	23,871	10,500	57,646
Pipe and tubing .....	"	725,380	338,106	806,062
Plates, sheets and strip .....	"	997,320	459,851	594,448
Wire .....	"	597,184	238,299	547,459
Other forms .....	"	379,999	117,742	563,857
Lead:				
Pig .....	lb.	1,390,474	262,179	1,616,219
Scrap .....	"	714,634	118,724	741,507
Other forms .....	"	76,152	33,744	74,356
Magnesium, all forms .....	lb.	270,325	81,200	113,427
Manganese metal .....	"	98,899	32,355	242,802
Monel metal .....	"	146,250	99,755	126,477
Nickel .....	"	422,326	256,063	266,545
Nickel-copper shot .....	"	65,443	27,260	44,048
Nickel-silver, all forms .....	"	1,642,558	519,876	1,427,052
Tin:				
Ingots:				
Phosphor tin .....	lb.	143,734	183,742	181,659
Other tin ingots .....	"	283,019	375,935	171,683
Scrap .....	"	7,407	6,622	26,290
Other forms .....	"	169,725	172,125	173,617
Zinc:				
Ingots and slabs .....	lb.	21,123,373	4,178,648	24,243,203
Scrap .....	"	510,140	84,170	905,341
Sheets .....	"	590,895	193,832	815,106
Other forms .....	"	—	28,171	—
Other non-ferrous metals .....	—	—	1,221,962	—
Iron and steel:				
Pig iron .....	tons	4,394	245,350	3,626
Iron castings .....	"	1,566	483,653	1
Steel castings .....	"	125	187,984	1
Steel bars and rods .....	"	551	186,856	663
Steel wire .....	"	64	19,805	475
Steel sheets .....	"	858	214,765	414
Iron and steel scrap .....	"	1,841	90,874	2,099
Other iron and steel .....	—	—	343,655	1
Lumber .....	M bd. ft.	2,097	202,174	574
Crucibles .....	—	—	104,651	—
Foundry coke .....	tons	3,644	85,966	2,427
Foundry facings .....	lb.	340,984	11,288	217,065
Foundry sands .....	tons	21,759	140,483	20,946
Graphite .....	lb.	84,722	13,269	75,495
Refractories .....	—	—	89,761	—
Other materials .....	—	—	6,162,155	—
Containers and packing materials .....	—	—	503,853	—
Total all materials .....	—	—	121,703,878	—
			120,999,967	

1. Not available separately.

TABLE 8. Imports into Canada of Brass and Copper and Their Products, 1951 and 1952

Item	1951		1952		
	Quantity	Value	Quantity	Value	
Brass and its products:		\$		\$	
Brass in blocks, ingots or pigs .....	cwt.	19	473	313	9,016
Brass scrap .....	"	15,411	267,654	15,171	266,895
Brass in bars or rods .....	"	4,191	159,733	3,071	140,219
Brass in strips, sheets or plates .....	"	4,927	251,703	2,663	154,541
Brass tubing .....	"	17,193	1,188,927	10,810	675,076
Metal caps, for use in the manufacture of electric batteries .....	—	—	96,943	—	38,361
Coin locks of which solid brass or bronze are the components of chief value, plain, polished or plated .....	—	—	811	—	1,050
Pumps, hand, brass, n.o.p. ....	—	—	31,707	—	32,432
Valves, brass .....	—	—	3,129,875	—	2,834,711
Meters, brass, and parts, n.o.p. ....	—	—	215,321	—	229,917
Brass wire, for the manufacture of fourdrinier wires or of paper-machine wire cloth .....	—	—	26,018	—	41,350
Wire, brass, n.o.p. ....	lb.	94,025	59,638	26,279	21,075
Wire cloth, or woven wire of brass, n.o.p. ....	—	—	55,484	—	124,325
Manufactures of brass, n.o.p. ....	—	—	10,938,123	—	8,861,030
Copper and its products:					
Copper, in blocks, pigs or ingots .....	cwt.	30,217	680,222	259,451	8,100,435
Copper scrap, cathode plates of electrolytic copper for melting .....	cwt.	25,282	300,924	40,978	849,331
Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors .....	cwt.	28,417	676,121	18,313	418,073
Copper in bars or rods, n.o.p. ....	"	1,926	55,187	2,289	62,818
Copper in strips, sheets or plates .....	"	7,605	356,540	2,292	116,956
Copper tubing .....	"	13,024	975,671	7,106	454,689
Copper rollers and stones, used in the printing of textile fabrics or wallpaper .....	—	—	178,912	—	122,496
Copper wire, n.o.p. ....	lb.	262,164	148,858	207,482	92,120
Copper wire cloth or woven wire of copper .....	—	—	24,150	—	14,006
Copper, manufactures of, n.o.p. ....	—	—	656,292	—	695,058

Note. "n.o.p." means "not otherwise provided for".

TABLE 9. Exports from Canada of Brass and Copper and Their Products, 1951 and 1952

Item	1951		1952	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Brass and its products:				
Brass scrap, dross and ashes .....	22,494	455,321	191,008	3,778,575
Brass in bars, ingots, rods, strips, sheets and plates .....	98,523	3,603,852	493,482	17,357,415
Brass tubing .....	1,196	54,835	3,922	192,279
Brass valves .....	—	506,053	—	371,374
Brass manufactures, n.o.p. ....	—	1,040,358	—	1,172,522
Copper and its products:				
Copper scrap, slag, skimmings and sludge .....	19,873	549,532	34,717	575,187
Copper in ingots, bars, cakes, slabs and billets .....	2,036,636	59,022,855	2,273,503	71,406,317
Copper in rods, strips, sheets and plates .....	248,364	7,378,396	372,536	13,436,505
Copper tubing .....	17,453	820,032	83,997	4,130,342
Copper wire and cable, insulated .....	—	3,048,794	—	8,744,749
Copper wire, bare .....	—	1,462,336	—	5,619,034
Copper wire screen .....	—	54,336	—	65,521
Copper manufactures, n.o.p. ....	—	111,330	—	125,048

**TABLE 10. Employees and Their Earnings in the Brass and Copper Products Industry, by Provinces, 1951 and 1952**

Province	Number of employees				Earnings			
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	
	Male	Female	Male	Female				
1951					\$	\$	\$	
Quebec .....	459	152	2,424	66	3,101	2,109,518	6,625,685	8,735,203
Ontario .....	742	371	4,398	522	6,033	4,209,165	13,906,627	18,115,792
British Columbia .....	50	10	145	1	206	202,576	423,619	626,195
Other provinces .....	90	35	558	54	737	485,622	1,355,264	1,840,886
Canada .....	1,341	568	7,525	643	10,077	7,006,881	22,311,195	29,318,076
1952								
Quebec .....	458	174	2,468	54	3,154	2,445,804	7,359,386	9,805,190
Ontario .....	738	359	4,001	544	5,642	4,459,629	14,135,812	18,595,441
British Columbia .....	48	12	158	1	219	223,567	486,819	710,286
Other provinces .....	87	34	524	51	696	513,712	1,409,545	1,923,257
Canada .....	1,331	579	7,151	650	9,711	7,642,712	23,391,562	31,034,271

**TABLE 11. Capital and Repair Expenditures in the Brass and Copper Products Industry, 1948-1952**

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
			\$'000				
1948 .....	353	1,864	2,217	544	1,842	2,386	4,603
1949 .....	699	4,496	5,195	548	1,891	2,439	7,634
1950 .....	899	1,241	2,140	413	2,114	2,527	4,667
1951 .....	631	2,525	3,156	475	2,595	3,070	6,226
1952 <sup>1</sup> .....	1,207	2,823	4,030	538	2,944	3,482	7,512

1. Preliminary.

## Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1952

Name of firm	Location of plant
(a) Foundries engaged chiefly in making brass valves, taps, plumbers' supplies, etc.	
<b>New Brunswick:</b>	
McAvity & Sons, T., Ltd.....	Rothesay Ave., Saint John
<b>Quebec:</b>	
Cuthbert, W. R., & Co. Ltd.....	47 Duke St., Montreal
Golden Gate Manufacturing Co., Ltd.....	361 Youville St., Montreal
Jenkins Bros. Limited.....	617 St. Rémi St., Montreal, and St. Joseph St., Lachine
Robertson, James, Company Limited .....	946 William St., Montreal
<b>Ontario:</b>	
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
Prescott Brass Manufacturing Co. Ltd.....	Prescott
Wallaceburg Brass Ltd.....	Wallaceburg
Wolverine Brass Company Limited .....	918 Palmerston Ave., Toronto
(b) Firms engaged chiefly in operating brass and bronze foundries (Other than for valves, taps, etc.)	
<b>Quebec:</b>	
Alliance Foundry & Patten Works Reg'd.....	915 St. Martin St., Montreal
Archambault Foundry Inc. ....	8016 Henri Julien St., Montreal
Bougie, Roland .....	220 Elice, Valleyfield
Boulane Brass Foundry.....	4270 Frontenac St., Montreal
Canadian Bronze Powder Works Limited.....	Valleyfield
Clark, C. O., & Bros. Reg'd.....	355 Canal Rd., Lachine
Dauncey, P. A., Ltd. ....	118 Big Forks St. S., Sherbrooke
Dominion Brass & Aluminum Foundry Co. ....	24 Mont Vernon Ave., Ville St. Pierre
Eastern Brass Foundry, Limited.....	514 Harbour St., Montreal
Empire Brass Foundry Limited.....	137 Nazareth St., Montreal
Fonderie D'Art.....	221 Chemin Chamby, Longueuil
Gaulin, Athanase.....	St-Francois, Cté. Montmagny
Hazel, James, & Son.....	130 Mgr. Gauvreau St., Quebec
Laliberté, P. E.....	32,rue Fleurie, Québec
Lauzon Brass and Aluminum Foundry .....	50 Carrier St., Lauzon
Miller's Brass Foundry, Reg'd.....	791 Hertel St., Three Rivers
Mitchell, Robert, Co. Limited, The .....	64 Decarie Blvd., Ville St. Laurent
Montreal Bronze Limited .....	999 Delormier Ave., Montreal
National Foundry Reg'd. ....	1722 Champigny St., Montreal
Noranda Copper and Brass Limited .....	Sherbrooke and Durocher Sts., Montreal East
Regent Brass Foundry .....	7980 Dryden Ave., Ville St. Michel, and St. Hubert St., Montreal
Sicotte, Paul .....	71 Dubois St., Ste. Therese
Union Screen Plate Company of Canada, Limited .....	72 Main St., Lennoxville
Vandervoerde Foundry.....	2000 Kent St., Montreal
Victory Brass & Aluminum Foundry .....	5244 Casgrain St., Montreal
<b>Ontario:</b>	
Anaconda American Brass Limited.....	8th Street, New Toronto
Atkins & Hoyle Limited.....	69 Portland St., Toronto
Barnard Foundries Ltd. ....	13 Dundas St. E., Toronto
Beare Brass Foundry .....	57 Grey St., Brantford
Bond Brass Limited.....	110 McArthur Ave., Eastview
Bowman Bronze Company.....	26 Railway St., Hamilton
Canadian Arsenals Ltd.—Gun Ammunition Division.....	100 Albert St. S., Lindsay
Coulter Copper & Brass Company, Limited.....	115 Sumach St., Toronto
Dempsey, Chas. W. ....	17 Division St., Guelph
Dominion Gas Meter Company, Limited, The .....	1-11 Garfield Ave., London

## Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1952 - Continued

Name of firm	Location of plant
(b) Firms engaged chiefly in operating brass and bronze foundries - Concluded (Other than for valves, taps, etc.)	
<b>Ontario - Concluded:</b>	
Elmira Aluminum Specialties.....	Elmira
Ferguson, Robt. J., & Sons.....	64 Booth St., Ottawa
Fifer Brass Foundry.....	41 Milan St., Toronto
Fisher and Son Foundry.....	366 Wilson St., Hamilton
Galt Castings Limited.....	199 Samuelson St., Galt
Industrial Fine Castings Limited.....	272 Geary Ave., Toronto
Inkerman Alloys Foundry.....	44 Inkerman St., Guelph
Kilby, Wm. Sr. ....	360 East St., Orillia
Kitchener Brass & Aluminum Foundry.....	388 Wendell Ave., Kitchener
Klassen Bronze.....	New Hamburg, Ont.
Lawrence, T. C., & Sons .....	17 Jarvis St., Galt
Long Branch Foundry, The .....	28 Brown's Line, Toronto
May Foundry Co. ....	2018 Buchanan St., Niagara Falls
Mckay Smelters, Limited.....	20 Charlevoix St., Eastview
National Brass & Aluminum Foundry.....	117 St. Patrick St., Toronto
Neptune Meters, Limited .....	Long Branch
Niagara Bronze .....	497 Butterly St., Niagara Falls
Non-Ferrous Castings Company .....	65 Frederick St., Toronto
Potts Pattern Works Ltd.....	Rear 1979 Dundas St.W., Toronto
Quality Brass Foundry.....	29 Wabash Ave., Toronto
Queen City Brass Foundry.....	28 Dalhousie St., Toronto
Rahn Metals Limited.....	Regina St., North Bay
Robinson, J., & Son .....	2 Hinton Ave., Ottawa
Royal Brass & Aluminum Foundry .....	6 Widmer St., Toronto
St. Catharines Brass Works, Ltd.....	62 George St., St. Catharines
St. Thomas Bronze Company, Limited.....	First Ave., St. Thomas
Sherrott, W., & Son .....	6 Britain St., Toronto
Sloski, E. ....	198 Beverley St., Toronto
Standard Brass & Aluminum Foundry .....	70 Kingsmill Ave., Guelph
Standard Brass Foundry .....	561 Catharine St. N., Hamilton
Stoermer Bell & Brass Foundry.....	Kitchener
Tallman, A. H., Bronze Company Limited.....	Cavell Ave., Hamilton
Usarco Ltd., United Smelting & Refining (Smelting Division.....	363 Wellington St. N., Hamilton
Wagman, Z., & Son Ltd.....	190 Edwin Ave., Toronto
Wilson Brass & Aluminum Foundries.....	5 Hamilton St., Toronto
Wilson & Cousins, Limited .....	240 Birmingham St., New Toronto
Windsor Brass Works, Limited .....	408 Hanna St. E., Windsor
Windsor Match Plate Co. ....	911 Cadillac St., Windsor
<b>Manitoba:</b>	
Bay Bronze Co., The .....	1520 Wall St., Winnipeg
Northwestern Brass, Limited.....	13 Bury St., Winnipeg
Western Canada Bronze Company.....	595 Clifton St., Winnipeg
Winnipeg Brass Limited.....	600 Clifton St., Winnipeg
<b>Alberta:</b>	
Northwestern Brass, Limited.....	1609-24th Ave. E., Calgary
Paragon Bronze & Aluminum Products.....	511-3rd Ave. W., Calgary
<b>British Columbia:</b>	
A-1 Pattern Shop & Brass Foundry Ltd. ....	29 West 3rd Ave., Vancouver
Fraser Brass Foundry.....	1403 Nesbit Rd., New Westminster
Georgia Foundry Limited.....	22 E. 5th Ave., Vancouver
Green, Wm., & Sons Brass Foundry .....	515 Pembroke St., Victoria
Hastings Brass Foundry Ltd. ....	236 Clark Drive, Vancouver
Hi-Way Foundry .....	506 Island Highway, Victoria
Kingsway Metal Spinning & Plating .....	1175 Kingsway, 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
North Shore Brass & Aluminum .....	234 E. Esplanade St., N. Vancouver
Ornamental Bronze Company, Ltd. ....	1125 Vernon Drive, Vancouver
Pacific Bronze Co., Ltd. ....	244 Woodland Drive, Vancouver
Pioneer Foundry & Machine Works Ltd. ....	707-4th. Ave. N., Port Alberni
Smith Bros. Foundry, Limited.....	632 Pembroke St., Victoria
Sumner Brass Foundry Ltd. ....	619 Bidwell St., Vancouver
Vancouver Metals Company Limited .....	2235 Triumph St., Vancouver
Westcoast Metal Products .....	1205 Glen Drive, Vancouver
Wilson's Brass Foundry .....	22 East Second Ave., Vancouver

## Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1952 - Concluded

Name of firm	Location of plant
(c) Firms engaged chiefly in making fabricated articles (Not foundries)	
<b>Quebec:</b>	
Booth-Coulter Coppersmithing Co. Ltd.....	997 Wellington St., Montreal
Brass & Bronze Manufacturing Co.....	1071 Panet St., Montreal
Canada Wire & Cable Co. Limited.....	Sherbrooke and Lurocher Sts., Montreal East
Cassidy and Maillard, Limited.....	1156-58 Papineau St., Montreal
Fayle Coppersmith Works Limited.....	910 Wellington St., Montreal
Guard-X Reg'd.....	6579 St. Denis St., Montreal
Industrial Spinning Co. Ltd.....	3850 Ontario St. E., Montreal
Kidde, Walter, & Company of Canada Ltd.....	6975 Jeanne Mance St., Montreal
<b>Ontario:</b>	
Booth, W. E., Co. Ltd.....	12 Mercer St., Toronto
Breen Wire Products Ltd.....	64 Merton St., Toronto
Canadian Meter Company, Limited.....	90 Caroline St. N., Hamilton
Cell Products.....	15 Easton St., Galt
Dodd & Struthers.....	1721 Moy Ave., Windsor
Dominion Brass Products Ltd.....	65 Saultier St., Toronto
Dominion Lightning Rod Company.....	63 Main St., Dundas
Durham Pure Copper Lightning Rod Conductor.....	Queen St., Durham
Fyr-Fyter Company of Canada, Ltd.....	589 Cannon St. E., Hamilton
General Fireguard Corporation Limited, The.....	978 Luke Rd., Windsor
Granell, G. P., & Son.....	330 Geary Ave., Toronto
Guardian Manufacturing Company.....	10 Brock St., Brockville
Johnston Copper & Brass Limited.....	11 New St., Toronto
Kurly Kate (Canada) Limited.....	49 Colborne 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.....	243 College St., Toronto
Niagara Terrazzo Supplies Ltd.....	316 Second Ave., Niagara Falls
Ottawa Brass Mfg. Co.....	542 Wellington St., Ottawa
Phillips, B., Company Limited.....	32 Osborne Ave., Toronto
Phillips Electrical Works Ltd.....	Kingston Road, Brockville
Pratt, Austin.....	125 Berkeley St., Toronto
Pyrene Manufacturing Co. of Canada, Limited.....	91 East Don Roadway, Toronto
Riverdale Copper & Brass Works.....	160 Duchess St., Toronto
S & S Metal Spinning Company.....	3298 Dundas St. W., Toronto
Toronto Coppersmithing Company.....	80 Knox Ave., Toronto
United-Carr Fastener Company of Canada, Limited.....	Gage Ave. and Beach Road, Hamilton; and Oakville
Universal Lightning Rod Company.....	Hespeler
<b>Manitoba:</b>	
Canadian Electric & Brass Ltd.....	574½ Minto St., Winnipeg
Wawanese Mutual Insurance Co. (Commercial Department)....	Wawanese
<b>Alberta:</b>	
Winter's Metal Spinning Works.....	510-6th Ave. W., Calgary
<b>British Columbia:</b>	
Ellett Copper & Brass Co. Ltd.....	92 West 2nd Ave., Vancouver

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