

41-206

CH

MAY 28 1956

Mr. Dick
Mr. Barclay



THE BRASS AND COPPER PRODUCTS INDUSTRY 1954



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

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-615-124

Price 25 cents

Vol. 2—Part XIV—C-1

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 or provinces 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 of Canada, (7 sections, as follows):
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
 - X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
 - XV — Electrical Apparatus and Supplies
 - XVI — Non-metallic Mineral Products
 - XVII — Products of Petroleum and Coal
 - XVIII — Chemicals and Allied Products
 - XIX — Miscellaneous Manufactures

The present report belongs in Part XIV, 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

1954

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 43 fabricating plants reported under this industry in 1954, and their factory shipments were valued at \$157,907,751. In 1953 the output value amounted to \$170,691,735 and in 1952 to \$184,671,951.

Products manufactured during 1954 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.

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 re-

quired for the brass foundry divisions and all data concerning the same were included in the industries of major importance.

A total of 156 plants were included in this group during 1954, of which 88 were located in Ontario, 39 in Quebec, 18 in British Columbia, 6 in Manitoba, 4 in Alberta and 1 in New Brunswick. Ontario factories accounted for 56 per cent of the total production and Quebec plants for 38 per cent.

The number of employees in 1954 totalled 8,530 compared with 9,301 in 1953, and salaries and wages aggregated \$30,131,125 as against \$31,539,770 for the previous year.

Note. Figures for value added by manufacture shown in Table 1, prior to 1952, were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

TABLE 1. Principal Statistics of the Brass and Copper Products Industry, Significant Years 1929-1954, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	102	6,232	7,800,591	619,946	21,118,038	14,377,597	36,115,581
1932	119	3,535	3,880,838	402,025	3,949,157	5,242,933	9,594,115
1937	125	5,094	6,310,384	625,961	21,498,095	12,329,104	34,453,160
1939	129	5,217	6,706,040	617,235	18,961,128	12,533,549	32,111,912
1943	158	21,899	40,731,201	3,254,224	108,330,435	81,403,059	192,987,718
1946	162	10,252	18,425,724	1,198,680	39,983,930	30,874,312	72,056,922
1949	162	9,389	22,943,888	1,662,442	73,045,193	40,700,161	115,407,796
1950	155	8,932	22,893,180	1,808,704	82,380,983	42,010,862	126,200,549
1951	153	10,077	29,318,076	2,117,706	121,703,878	56,176,303	179,997,887
1952	153	9,711	31,034,274	2,170,803	120,999,967	61,501,181	184,671,951
1953							
Quebec	37	3,083	10,333,913	867,259	45,072,023	20,264,536	66,203,818
Ontario	87	5,250	18,316,070	1,066,685	59,219,219	34,139,590	94,425,494
British Columbia	19	247	817,721	46,356	747,911	1,358,373	2,152,640
Manitoba	6	161	504,750	43,952	1,887,195	1,085,697	3,016,844
New Brunswick	1	560	1,567,316	86,073	1,788,762	3,018,104	4,892,939
Alberta	3						
Canada	153	9,301	31,539,770	2,110,325	108,715,110	59,866,300	170,691,735
1954							
Quebec	39	2,917	10,128,611	814,018	39,910,640	20,000,065	60,710,067
Ontario	88	4,836	17,385,187	1,104,629	56,846,475	31,334,452	89,041,309
British Columbia	18	215	784,649	43,055	687,171	1,170,676	1,908,612
Manitoba	6	137	441,418	40,361	1,352,130	911,493	2,299,110
New Brunswick	1	425	1,391,260	83,999	1,089,841	2,762,933	3,948,653
Alberta	4						
Canada	156	8,530	30,131,125	2,086,062	99,886,257	56,179,619	157,907,751

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

1. See footnote to text.

TABLE 2. Principal Statistics, by Sub-Groups, 1953 and 1954

	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at plant	Cost of materials at plant	Value of factory shipments
	No.	No.	\$	\$	\$	\$
1953						
Foundries making taps, valves, etc...	15	3,382	10,617,101	408,812	8,630,961	26,956,404
Other brass and bronze foundries	96	4,805	17,327,530	1,497,926	56,761,521	91,167,179
Fabricating plants (not foundries).....	42	1,114	3,595,139	203,587	43,322,628	52,568,152
Total	153	9,301	31,539,770	2,110,325	108,715,110	170,691,735
1954						
Foundries making taps, valves, etc...	15	3,012	10,029,968	426,815	6,780,776	24,891,685
Other brass and bronze foundries	98	4,421	16,416,733	1,413,433	48,934,757	81,368,860
Fabricating plants (not foundries).....	43	1,097	3,684,424	245,814	44,170,724	51,647,206
Total	156	8,530	30,131,125	2,086,062	99,886,257	157,907,751

Note. In Table 2 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 3. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Quebec	3,297,551	4,279,417	2,526,504	10,103,472
Ontario	5,668,679	2,303,023	3,227,623	11,199,325
Manitoba	134,120	16,277	106,418	256,815
British Columbia	99,540	63,002	38,697	201,239
New Brunswick and Alberta	162,091	520,000	198,688	880,779
Canada	9,361,981	7,181,719	6,097,930	22,641,630
Closing:				
Quebec	2,859,435	3,219,231	2,541,160	8,619,826
Ontario	5,888,919	2,389,750	3,471,870	11,750,539
Manitoba	207,359	18,821	111,292	337,472
British Columbia	101,260	115,938	30,987	248,185
New Brunswick and Alberta	138,744	423,417	186,808	748,969
Canada	9,195,717	6,167,157	6,342,117	21,704,991

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Brass and Copper Products Industry for the year under review are shown in the above table.

TABLE 4. Materials Used in the Brass and Copper Products Industry, 1953 and 1954

Material		1953		1954	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Aluminum:					
Ingots	lb.	1,688,240	378,013	1,762,990	465,913
Scrap	"	3,954,222	501,923	1,870,016	252,835
Other forms	"	1,139,277	519,197	1,195,390	516,497
Antimony	lb.	20,672	5,858	18,979	5,232
Brass and bronze:					
Ingots	lb.	23,186,558	5,725,562	21,180,527	5,366,322
Scrap	"	59,197,147	13,691,454	47,724,839	10,925,824
Bars and rods	"	4,296,031	1,431,003	2,873,264	964,279
Plates, sheets and strip	"	1,751,828	784,417	2,152,098	854,825
Pipe and tubing	"	1,984,353	968,637	944,589	463,869
Wire	"	129,648	69,361	135,218	81,224
Castings	"	1,791,654	836,754	1,462,493	704,599
Other forms	"	637,071	195,673	308,733	183,621
Copper:					
Ingots, slabs, wire bars, etc.	lb.	210,050,856	63,292,552	199,572,106	59,171,680
Scrap	"	17,069,871	4,756,431	22,764,216	5,708,522
Rods	"	59,861	30,054	21,296	10,631
Pipe and tubing	"	572,997	269,641	413,699	198,000
Plates, sheets and strip	"	1,131,670	518,138	1,738,437	759,855
Wire	"	543,616	248,885	584,379	243,111
Other forms	"	1,097,344	257,970	212,186	92,350
Lead:					
Pig	lb.	819,453	116,615	971,486	137,484
Scrap	"	574,208	70,362	2,047,977	260,102
Other forms	"	67,619	26,208	66,975	28,242
Magnesium, all forms	lb.	147,671	77,382	121,533	53,805
Manganese metal	"	166,860	48,094	195,341	58,903
Monel metal	"	85,085	64,719	85,523	68,414
Nickel	"	391,435	234,746	452,942	268,766
Nickel-copper shot	"	45,279	16,652	27,183	15,725
Nickel-silver, all forms	"	1,725,603	590,115	1,360,015	367,480
Tin:					
Ingots:					
Phosphor tin	lb.	193,897	202,392	173,139	165,413
Other tin ingots	"	145,634	144,594	187,972	170,853
Scrap	"	1,739	1,158	39,373	17,810
Other forms	"	157,850	126,597	57,791	33,464
Zinc:					
Ingots and slabs	lb.	18,498,543	2,234,094	12,085,197	1,426,074
Scrap	"	259,995	18,896	261,654	25,829
Sheets	"	638,460	170,050	1,016,535	228,853
Other forms	—	—	8,931	—	823
Other non-ferrous metals	—	—	1,194,426	—	690,150
Iron and steel:					
Pig iron	tons	4,075	252,194	4,353	236,928
Steel bars and rods	"	1,129	104,610	453	135,413
Steel wire	"	223	90,171	152	111,391
Steel sheets	"	634	93,522	548	88,938
Iron and steel scrap	"	2,498	178,884	2,290	157,721
Lumber	M bd, ft.	523	45,642	395	36,649
Crucibles	—	—	92,197	—	84,616
Foundry coke	tons	2,631	72,761	2,169	61,843
Foundry facings	lb.	190,538	16,862	104,371	6,104
Foundry sands	tons	16,639	123,160	15,663	144,908
Graphite	lb.	46,747	9,403	48,096	11,769
Refractories	—	—	56,833	—	54,315
Other materials	—	—	7,096,165	—	7,039,724
Containers and packing materials	—	—	655,154	—	727,559
Total all materials	—	—	108,715,110	—	\$9,886,257

TABLE 5. Products Made in the Brass and Copper Products Industry, 1953 and 1954

Product		1953		1954	
		Quantity	Value of factory shipments	Quantity	Value of factory shipments
Aluminum:			\$		\$
Castings	lb.	1,407,005	1,368,134	1,425,219	1,320,134
Other forms	—	—	998,342	—	790,308
Brass and bronze:					
Ingots	tons	10,473	4,814,550	9,985	4,729,462
Castings	"	17,946	15,468,424	13,987	12,470,219
Scrap	"	542	211,704	593	256,908
Other forms (excluding cartridge cases) ¹	"	36,528	30,234,404	27,652	22,891,534
Copper sheets, wire rods, tubing, etc.	"	91,369	65,740,094	92,499	66,811,248
Fire extinguishers, hand-type	—	—	1,500,514	—	1,784,749
Hardware	—	—	400,042	—	73,543
Lightning rods and supplies	—	—	330,556	—	336,241
Plumbers' brass fittings	—	—	10,576,675	—	10,268,546
Cast iron plumbing fixtures	—	—	312,609	—	371,810
Valves:					
Iron and steel body	—	—	2,947,321	—	3,300,900
Brass and bronze, including radiator valves and traps	—	—	6,082,037	—	5,737,598
Ships' fittings	—	—	464,896	—	392,374
Steam boiler trimmings, including gauge cocks and water gauge mountings	—	—	108,491	—	149,034
Amount received for repair work	—	—	917,489	—	904,455
All other products, including items made by only 1 or 2 concerns ²	—	—	28,215,453	—	25,318,688
Total all products	—	—	170,691,735	—	157,907,751

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 6 and 7.

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.

TABLE 6. Total Production in Canada of Plumbers' Brass Fittings, 1953 and 1954 (From all industries)

Product	Value of factory shipments	
	1953	1954
	\$	\$
Tub fillers, showers, and combinations of same	1,715,000	1,564,000
Traps, drains, supplies and other tubular fittings	2,338,000	2,264,000
Stops, and stop and drains	1,064,000	1,130,000
Sink faucets and sink combinations	1,918,000	1,921,000
Lavatory and bath faucets, lavatory combinations	1,993,000	1,674,000
Closet tank fittings	1,033,000	1,144,000
All other brass plumbing fittings	4,488,000	4,548,000
Total	14,549,000	14,245,000

TABLE 7. Total Production¹ in Canada of Hand-Type Fire Extinguishers, 1945-1954 (From all industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1945	1,308,000	1950	1,464,000
1946	896,000	1951	1,825,000
1947	713,000	1952	1,840,000
1948	967,000	1953	1,767,000
1949	1,225,000	1954	2,140,000

1. Factory shipments since 1952.

TABLE 8. Principal Statistics Classified According to Type of Ownership - 1953 and 1954

Type	Estab- lish- ments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Individual ownership	36	177	420,549	562,735	1,190,640
Partnerships	21	144	393,243	748,042	1,374,993
Incorporated companies	96	8,980	30,725,978	107,404,333	168,126,102
Total	153	9,301	31,539,770	108,715,110	170,691,735
1954					
Individual ownership	35	149	323,305	464,590	961,438
Partnerships	22	187	485,573	868,393	1,645,174
Incorporated companies	99	8,194	29,322,247	98,553,274	155,301,139
Total	156	8,530	30,131,125	99,886,257	157,907,751

TABLE 9. Principal Statistics of the Brass and Copper Products Industry in Canada,
Grouped According to Size of Establishment, 1953 and 1954

Establishments reporting value of factory shipments	Estab- lish- ments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Under \$25,000	34	89	172,399	203,041	462,186
\$25,000 to \$49,999	19	99	240,295	372,048	707,042
\$50,000 to \$99,999	32	325	888,238	1,000,703	2,248,735
\$100,000 to \$199,999	13	185	562,688	856,511	1,855,377
\$200,000 to \$499,999	19	680	2,054,085	2,279,265	5,907,257
\$500,000 to \$999,999	11	707	2,315,179	3,182,120	8,320,051
\$1,000,000 to \$4,999,999	21	4,910	16,416,592	24,732,085	54,196,308
\$5,000,000 and over	4	2,289	8,813,870	76,089,337	96,994,779
Head offices	—	17	76,424	—	—
Total	153	9,301	31,539,770	108,715,110	170,691,735
1954					
Under \$25,000	36	89	178,919	219,087	469,288
\$25,000 to \$49,999	22	145	320,464	418,802	818,991
\$50,000 to \$99,999	24	236	646,357	697,091	1,673,492
\$100,000 to \$199,999	20	318	976,057	1,197,103	2,789,749
\$200,000 to \$499,999	17	573	1,796,723	2,593,465	5,733,565
\$500,000 to \$999,999	15	871	3,147,590	4,647,437	10,713,719
\$1,000,000 to \$4,999,999	17	3,521	12,186,208	18,259,215	40,527,672
\$5,000,000 and over	5	2,761	10,804,292	71,854,057	95,181,275
Head offices	—	16	74,515	—	—
Total	156	8,530	30,131,125	99,886,257	157,907,751

TABLE 10. Employees and Their Earnings in the Brass and Copper Products Industry, by Provinces, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Quebec	444	169	2,410	60	3,083	2,764,822	7,569,091	10,333,913
Ontario	742	354	3,774	380	5,250	4,536,686	13,779,384	18,316,070
British Columbia	43	11	191	2	247	200,025	617,696	817,721
Other provinces	86	35	542	58	721	548,373	1,523,693	2,072,066
Canada	1,315	569	6,917	500	9,301	8,049,906	23,489,864	31,539,770
1954								
Quebec	462	170	2,219	66	2,917	2,774,195	7,354,416	10,128,611
Ontario	741	342	3,434	319	4,836	4,756,624	12,628,563	17,385,187
British Columbia	43	9	160	3	215	233,265	551,384	784,649
Other provinces	76	28	425	33	562	490,489	1,342,189	1,832,678
Canada	1,322	549	6,238	421	8,530	8,254,573	21,876,552	30,131,125

TABLE 11. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.
January	6,894	501	7,395	6,599	415	7,014
February	6,893	511	7,404	6,397	430	6,827
March	7,045	512	7,557	6,369	413	6,782
April	7,077	516	7,593	6,308	400	6,708
May	6,968	529	7,497	6,292	404	6,696
June	6,936	503	7,439	6,232	420	6,652
July	6,836	497	7,333	6,199	417	6,616
August	6,905	501	7,406	6,120	420	6,540
September	7,044	502	7,546	6,106	428	6,534
October	6,964	484	7,448	6,066	421	6,484
November	6,998	475	7,473	6,049	411	6,460
December	6,888	473	7,361	6,039	387	6,426
Average	6,917	500	7,417	6,238	421	6,659

TABLE 12. Capital and Repair Expenditures in the Brass and Copper Products Industry, 1950-1954

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			
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	1,207	2,823	4,030	539	2,944	3,483	7,513
1953	974	3,723	4,697	587	2,557	3,144	7,841
1954 ¹	584	2,877	3,461	628	2,837	3,465	6,926

1. Preliminary.

TABLE 13. Imports into Canada of Brass and Copper and Their Products, 1953 and 1954

Item	1953		1954	
	Quantity	Value	Quantity	Value
		\$		\$
Brass and its products:				
Brass in blocks, ingots or pigs	cwt. 2,690	55,215	261	11,663
Brass scrap	" 9,910	170,406	3,439	62,345
Brass in bars or rods	" 4,997	179,120	5,472	199,050
Brass in strips, sheets or plates	" 4,750	218,313	11,678	406,280
Brass tubing	" 37,107	1,448,926	6,627	405,257
Metal caps, for use in the manufacture of electric batteries	—	39,174	—	39,145
Coin locks of which solid brass or bronze are the components of chief value, plain, polished or plated	—	2,176	—	662
Pumps, hand, brass, n.o.p.	—	25,863	—	17,351
Valves, brass	—	3,517,798	—	3,455,200
Meters, brass, and parts, n.o.p.	—	220,793	—	258,632
Brass wire, for the manufacture of fourdrinier wire or of paper-machine wire cloth	—	30,280	—	47,168
Wire, brass, n.o.p.	lb. 36,202	26,403	44,573	28,343
Wire cloth, or woven wire of brass, n.o.p.	—	83,648	—	69,882
Manufactures of brass, n.o.p.	—	11,777,872	—	13,091,375
Copper and its products:				
Copper, in blocks, pigs or ingots	cwt. 110,307	2,970,226	34,068	917,482
Copper scrap, cathode plates of electrolytic copper for melting	cwt. 181,654	4,619,223	12,436	317,466
Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors	cwt. 24,984	647,824	23,510	623,953
Copper in bars or rods, n.o.p.	" 1,504	40,601	919	37,100
Copper in strips, sheets or plates	" 3,334	151,802	14,044	581,136
Copper tubing	" 6,471	423,847	14,203	802,185
Copper rollers and stones, used in the printing of textile fabrics or wallpaper	—	86,160	—	140,301
Copper wire, n.o.p.	lb. 583,008	190,467	174,637	91,092
Copper wire cloth or woven wire of copper	—	14,808	—	13,960
Copper, manufactures of, n.o.p.	—	783,085	—	795,141

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

TABLE 14. Exports from Canada of Brass and Copper and Their Products, 1953 and 1954

Item	1953		1954	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Brass and its products:				
Brass scrap, dross and ashes	186,011	3,306,395	166,586	2,748,623
Brass in bars, ingots, rods, strips, sheets and plates	100,599	3,612,831	22,788	684,384
Brass tubing	25,875	1,187,986	6,847	348,260
Brass valves	—	325,098	—	354,191
Brass wire and bronze wire	453	26,299	7,863	95,079
Brass manufactures, n.o.p.	—	2,400,383	—	1,941,206
Copper and its products:				
Copper scrap, slag, skimmings and sludge	212,949	5,051,376	218,519	5,116,436
Copper in ingots, bars, cakes, slabs and billets	2,639,876	80,939,921	3,122,594	91,355,516
Copper in rods, strips, sheets and plates	115,369	3,734,309	160,973	5,259,588
Copper tubing	21,746	1,132,689	34,181	1,700,341
Copper wire and cable, insulated	—	4,156,306	—	5,132,546
Copper wire, bare	—	1,952,616	—	878,515
Copper wire screen	—	42,448	—	8,692
Copper manufactures, n.o.p.	—	41,764	—	17,639

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

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1954

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. 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
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
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.)	
Quebec:	
Alliance Foundry & Pattern Works Reg'd.	915 St. Martin St., Montreal
Archambault Foundry Inc.	8016 Henri Julien St., Montreal
Bouliane Brass Foundry	4270 Frontenac St., Montreal
Canadian Bronze Powder Works Limited	Valleyfield
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 Chambly, Longueuil
Gaulin, Athanase	St-Francois, Cte. 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
Mark Hot Foundries Ltd.	Hebert St., Montreal North
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 Delorimier Ave., Montreal
National Foundry Reg'd.	1722 Champigny St., Montreal
Noranda Copper and Brass Limited	Sherbrooke and Durocher Sts., Montreal East
Regent Brass Foundry	7980-17th Ave., Ville St. Michel, and St. Hubert St., Montreal
Sicotte, Paul	71 Dubois St., Ste. Therese
Supreme Precision Castings Ltd.	6637 Jeanne Mance St., Montreal
Union Screen Plate Company of Canada, Limited	72 Queen St., Lennoxville
Vandevoorde Foundry	2000 Kent St., Montreal
Verdon Brass & Aluminum Foundry Inc.	480 Rothsay's, St. Lambert
Victory Brass & Aluminum Foundry	5244 Casgrain St., Montreal
Ontario:	
Anaconda American Brass Limited	8th Street, New Toronto
Atkins & Hoyle Limited	69 Portland St., Toronto
Barnard Foundries Ltd.	13 Dundas St. E., Brantford
Beare Brass Foundry	57 Grey St., Brantford
Bond Brass Limited	110 McArthur Ave., Eastview
Craig Bronze Company	330 Horner Ave., Toronto
Coulter Copper & Brass Company, Limited	115 Sumach St., Toronto
Dominion Gas Meter Company, Limited, The	1-11 Garfield Ave., London
Elmira Aluminum Specialties	Elmira
Ferguson, Robt. J., & Sons	64 Booth St., Ottawa
Fisher and Son Foundry	366 Wilson St., Hamilton
Galt Castings Limited	199 Samuelson St., Galt

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1954 - Continued

Name of firm	Location of plant
(b) Firms engaged chiefly in operating brass and bronze foundries (Other than for valves, taps, etc.) - Concluded	
Ontario:- concluded:	
Guelph Brass and Aluminum	17 Division St., Guelph
Inkerman Alloys Foundry	44 Inkerman St., Guelph
Kent-Norlantic Ltd.	389 Horner Ave., Toronto
Kilby, W., Foundry	360 East St., Orillia
Kitchener Brass & Aluminum Foundry	388 Wendell Ave., Kitchener
Klassen Bronze	New Hamburg
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., Ottawa
National Brass & Aluminum Foundry	117 St. Patrick St., Toronto
Neptune Meters, Limited	Long Branch
Niagara Bronze	497 Buttery 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.	16 Smith St., St. Catharines
St. Thomas Bronze Company, Limited	First Ave., St. Thomas
Sherratt, 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
Supreme Casting & Mfg. Co.	3317 Dufferin St., Toronto
Tallman, A.H., Bronze Company Limited	Cavell Ave., Hamilton
Technical Industries Co.	1203 Lawrence Ave. W., North Park
Usarco Ltd.	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.	1125 Westcott Rd., Windsor
Manitoba:	
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
Alberta:	
American Brass, Aluminum Foundry Ltd.	12530-123rd Street, Edmonton
Northwestern Brass, Limited	1609-24th Ave. E., Calgary
Paragon Bronze & Aluminum Products	511-3rd Ave. W., Calgary
British Columbia:	
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
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 Foundry Ltd.	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
Westcoast Metal Products	1205 Glen Drive, Vancouver
Wilson's Brass Foundry	22 East Second Ave., Vancouver



1010655608

NON-FERROUS METAL PRODUCTS

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1954 — Concluded

Name of firm	Location of plant
(c) Firms engaged chiefly in making fabricated articles (Not foundries)	
Quebec:	
Booth-Coulter Coppersmithing Co. Ltd.	997 Smith St., Montreal
Brass & Bronze Manufacturing Co.	1071 Panet St., Montreal
Canada Wire & Cable Co. Limited	Sherbrooke and Durocher Sts., Montreal East
Cassidy and Maillard, Limited	1156-58 Papineau Ave., Montreal
Fayle Coppersmith Works Limited	910 Wellington St., Montreal
Guard-X Reg'd.	5875 Papineau Ave., Montreal
Industrial Spinning Co. Ltd.	3850 Ontario St. E., Montreal
Kidde, Walter, & Company of Canada Ltd.	6975 Jeanne Mance St., Montreal
Ontario:	
Booth, W. E., Co. Ltd.	12 Mercer St., Toronto
Canadian Meter Company, Limited	90 Caroline St. N., Hamilton
Cello Products	15 Easton St., Galt
C-O-Two Fire Equipment of Canada Limited	91 East Don Roadway, Toronto
Dodd & Struthers	1721 Moy Ave., Windsor
Dominion Lightning Rod Company	63 Main St., Dundas
Durham Pure Copper Lightning 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 Lightning Rod Co. Ltd.	32 Osborne Ave., Toronto
Phillips Electrical Co. (1953) Ltd.	King St., Brockville
Pratt, Austin	125 Berkeley St., Toronto
Pyrene Manufacturing Co. of Canada, Limited	91 East Don Roadway, Toronto
Ratcliff's (Canada) Limited	Yonge Street., Richmond Hill
Riverdale Copper & Brass Works	160 Duchess St., Toronto
S & S Metal Spinning Company	3298 Dundas St. W., Toronto
Tonner, Gordon	Oxford St., Elgin Mills
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
Manitoba:	
Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanesa Mutual Insurance Co. (Commercial Department) ..	Wawanesa
Alberta:	
Winter's Metal Spinning Works	510—6th Ave. W., Calgary
British Columbia:	
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver