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THE BRASS AND COPPER PRODUCTS INDUSTRY

1957



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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
- II — The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
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 - Section D. Ontario
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 - Section F. British Columbia
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- III — Foods and Beverages
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- XI — Printing Trades
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- 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
- B — The Aluminum Products Industry
- C — The Brass and Copper Products Industry
- D — The White Metal Alloys Industry
- E — The Jewellery and Silverware Industry
- F — The Smelting and Refining Industry
- G — The Miscellaneous Non-ferrous Metal Products Industry

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

THE BRASS AND COPPER PRODUCTS INDUSTRY

1957

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 47 fabricating plants reported under this industry in 1957 and their factory shipments were valued at \$182,396,315. In 1956 the output value amounted to \$244,096,116 and in 1955 to \$216,500,000.

Products manufactured during 1957 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 required for the brass foundry divisions and all data concerning the same were included in the industries of major importance.

A total of 160 plants were included in this group during 1957, of which 91 were located in Ontario, 40 in Quebec, 18 in British Columbia, 5 in Manitoba, 5 in Alberta and 1 in New Brunswick. Ontario factories accounted for 57 per cent of the total and Quebec plants for 36 per cent.

The number of employees in 1957 totalled 8,825 compared with 9,220 in 1956 and salaries and wages aggregated \$34,803,463 as against \$34,729,361 for the previous year.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

**TABLE I. Principal Statistics of the Brass and Copper Products Industry, Significant Years
1929 - 1957, and by Provinces, 1956 and 1957**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
number							
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
1953	153	9,301	31,539,770	2,110,325	108,715,110	59,860,300	170,691,735
1954	156	8,530	30,131,125	2,086,062	99,886,257	56,179,619	157,907,751
1955	157	8,864	32,274,041	2,189,532	150,395,034	64,086,451	216,500,000
1956							
Quebec	40	2,952	11,261,272	871,225	74,305,581	23,627,385	97,915,790
Ontario	87	5,368	20,575,710	1,324,500	92,894,966	40,439,412	134,380,898
British Columbia	16	191	764,949	57,770	1,568,285	1,056,533	2,632,583
Manitoba	6	149	531,522	47,188	2,433,918	1,071,233	3,526,910
New Brunswick	1	560	1,595,908	104,430	2,398,915	3,303,343	5,639,935
Alberta	4						
Canada	154	9,220	34,729,361	2,405,113	173,601,665	69,497,906	244,096,116
1957							
Quebec	40	2,754	11,061,082	859,754	44,177,297	21,119,477	66,387,669
Ontario	91	5,169	20,572,268	1,378,602	62,464,784	40,520,883	104,826,078
British Columbia	18	193	813,021	51,079	1,273,360	1,244,625	2,590,643
Manitoba	5	148	553,269	51,008	1,638,338	1,097,757	2,781,533
New Brunswick	1	561	1,803,823	101,972	1,793,310	3,870,251	5,810,392
Alberta	5						
Canada	160	8,825	34,803,463	2,442,415	111,347,089	67,852,993	182,396,315

¹ See footnote to Text.

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.

TABLE 2. Principal Statistics, by Sub-Groups, 1956 and 1957

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value of factory shipments
1956		number				
dollars						
Foundries making taps, valves, etc.	14	3,036	10,453,694	428,370	9,076,496	29,383,252
Other brass and bronze foundries	94	4,811	19,365,954	1,657,716	82,648,976	120,546,811
Fabricating plants (not foundries)	46	1,373	4,909,713	319,027	81,876,193	94,166,053
Total	154	9,220	34,729,361	2,405,113	173,601,665	244,096,116
1957						
Foundries making taps, valves, etc.	13	2,856	10,458,937	439,713	7,773,211	28,037,755
Other brass and bronze foundries	100	4,571	18,969,639	1,687,032	54,940,422	92,401,825
Fabricating plants (not foundries)	47	1,398	5,374,887	315,670	48,633,456	61,956,735
Total	160	8,825	34,803,463	2,442,415	111,347,089	182,396,315

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. Inventories,¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Quebec	3,256,485	4,278,330	2,255,389	9,790,204
Ontario	10,050,205	2,471,509	5,265,956	17,787,670
Manitoba	207,596	34,574	126,916	369,086
British Columbia	142,246	116,704	101,938	360,888
New Brunswick and Alberta	224,358	791,446	170,964	1,186,768
Canada	13,880,890	7,692,563	7,921,163	29,494,616
Closing:				
Quebec	2,514,199	4,013,124	2,289,454	8,816,777
Ontario	9,541,501	2,834,263	4,441,393	16,817,157
Manitoba	155,681	24,843	142,217	322,741
British Columbia	109,560	83,993	113,070	306,623
New Brunswick and Alberta	203,860	715,792	201,759	1,121,411
Canada	12,524,801	7,672,015	7,187,893	27,384,709

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.

(c) The opening inventory for 1957 does not necessarily agree with the closing inventory for 1956 because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 4. Materials Used in the Brass and Copper Products Industry, 1956 and 1957

Material	1956		1957		
	Quantity	Cost at plant	Quantity	Cost at plant	
		\$		\$	
Aluminum:					
Ingots	lb.	1,483,955	412,048	1,293,750	391,572
Scrap	"	5,318,114	1,051,618	4,263,949	806,332
Other forms	"	2,279,196	1,078,667	1,899,879	805,774
Antimony	"	45,333	10,458	28,999	8,717
Brass and bronze:					
Ingots	"	21,549,004	7,781,787	21,811,242	5,974,909
Scrap	"	53,428,215	16,957,262	48,347,916	10,871,081
Bars and rods	"	3,947,193	1,576,902	3,620,567	1,078,440
Plates, sheets and strip	"	2,396,931	1,140,223	1,457,510	686,407
Pipe and tubing	"	1,004,679	572,183	727,170	413,841
Wire	"	601,879	442,829	860,126	631,336
Castings	"	1,409,929	796,401	2,987,492	1,451,700
Other forms	"	263,912	223,109	407,184	437,001
Copper:					
Ingots, slabs, wire bars, etc.	"	275,452,129	115,019,466	224,782,118	64,253,438
Scrap	"	18,651,187	6,214,066	20,734,136	5,656,449
Rods	"	161,609	102,050	239,957	130,388
Pipe and tubing	"	301,964	196,765	351,168	186,505
Plates, sheets and strip	"	1,143,226	646,740	1,218,783	579,264
Wire	"	647,679	317,626	658,445	249,232
Other forms	"	30,778	22,098	27,116	10,298
Leads, all forms	"	1,533,256	252,789	1,916,237	316,365
Magnesium, all forms	"	128,642	50,810	84,308	26,333
Manganese metal	"	111,319	40,438	137,879	46,052
Monel metal	"	95,347	93,027	73,600	74,685
Nickel	"	895,584	600,445	919,618	681,194
Nickel-copper shot	"	23,377	15,465	13,307	10,057
Nickel-silver, all forms	"	1,646,408	599,600	1,896,141	592,853
Tin:					
Ingots:					
Phosphor tin	"	198,606	201,752	136,808	138,209
Other tin ingots	"	249,472	252,509	211,790	229,682
Scrap	"	—	—	15,894	7,521
Other forms	"	3,024	2,652	7,847	6,262
Zinc:					
Ingots and slabs	"	14,255,978	2,130,836	12,563,552	1,562,811
Scrap	"	1,100,969	117,085	1,064,347	90,683
Sheets	"	892,763	221,357	949,225	215,218
Other forms	—	—	6,292	—	12,178
Other non-ferrous metals	—	—	1,754,447	—	931,126
Iron and steel:					
Pig iron	ton	3,838	220,891	3,319	216,416
Iron and steel scrap	"	3,762	181,374	2,843	132,845
Other iron and steel including stainless	"	—	3,010,764	—	1,650,014
Lumber	M bd. ft.	614	63,337	477	58,031
Foundry coke	ton	2,068	64,523	1,456	43,963
Foundry sands	ton	11,621	124,729	16,641	135,328
Graphite	lb.	45,385	14,914	69,632	24,204
Refractories	—	—	84,699	—	80,282
Other materials	—	—	8,120,182	—	8,476,672
Containers and packing materials	—	—	814,450	—	965,421
Total all materials	—	—	173,601,665	—	111,347,089

TABLE 5. Products Made in the Brass and Copper Products Industry, 1956 and 1957

Product	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
Aluminum:		\$		\$
Castings..... lb.	1,537,654	1,374,548	1,270,973	1,023,373
Other forms	—	1,962,830	—	1,770,122
Brass and bronze:				
Ingots ton	12,198	8,799,132	12,311	7,769,919
Castings	16,361	17,798,060	10,112	10,265,537
Scrap	498	294,604	235	91,618
Other forms (excluding cartridge cases) ¹	27,251	30,464,586	24,333	21,477,028
Copper sheets, wire rods, tubing, etc. "	123,194	121,325,336	103,048	76,058,753
Fire extinguishers, hand-type	—	2,911,841	—	2,649,057
Hardware	—	234,016	—	144,429
Lightning rods and supplies	—	333,763	—	Not available
Plumbers' brass fittings	—	11,969,275	—	10,138,343
Cast iron plumbing fixtures	—	464,979	—	372,258
Valves:				
Iron and steel body	—	4,552,359	—	4,322,712
Brass and bronze, including radiator valves and traps	—	5,151,239	—	8,111,468
Ships' fittings	—	312,693	—	712,859
Steam boiler trimmings, including gauge cocks and water gauge mountings	—	85,452	—	Not available
Amount received for repair work	—	1,711,794	—	1,516,495
All other products, including items made by only one or two concerns ²	—	34,349,609	—	35,972,344
Total all products.....	—	244,096,116	—	182,396,315

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.

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.

TABLE 6. Factory Shipments of Plumbers' Brass Fittings, 1956 and 1957
(From all industries)

Product	Value of factory shipments	
	1956	1957
	\$	\$
Bath waste and overflows	666,000	605,000
Faucets, sink, lavatory and bath, and their combinations	4,147,000	3,647,000
Plumbing fixture, trim	1,134,000	866,000
Stops	1,021,000	1,116,000
Traps	912,000	921,000
Tub-fitters, showers and combinations of same	2,625,000	2,323,000
Toilet tank fittings	1,381,000	1,008,000
Other brass plumbing fixtures	4,154,000	3,919,000
Total.....	16,040,000	14,405,000

**TABLE 7. Total Production¹ in Canada of Hand-Type Fire Extinguishers, 1948-1957
(From all industries)**

Year	Selling value at works	Year	Selling value at works
	\$		\$
1948	967,000	1953	1,767,000
1949	1,225,000	1954	2,140,000
1950	1,464,000	1955	2,890,000
1951	1,825,000	1956	2,912,000
1952	1,840,000	1957	2,649,000

¹ Factory shipments since 1952.

TABLE 8. Principal Statistics Classified According to Type of Ownership, 1956 and 1957

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
number					
1956					
Individual ownerships	32	135	320,061	574,364	1,049,063
Partnerships	16	139	405,874	683,032	1,293,224
Incorporated companies	106	8,946	34,003,426	172,344,269	241,753,829
Total	154	9,220	34,729,361	173,601,665	244,096,116
1957					
Individual ownerships	37	139	354,181	513,466	1,060,990
Partnerships	13	94	301,111	508,383	1,049,740
Incorporated companies	110	8,592	34,148,171	110,325,240	180,285,585
Total	160	8,825	34,803,463	111,347,089	182,396,315

**TABLE 9. Principal Statistics of the Brass and Copper Products Industry in Canada,
Grouped According to Selling Value of Factory Shipments, 1956 and 1957**

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
number					
1956					
Under \$10,000	11	13	26,457	25,272	50,582
\$10,000 to \$24,999	19	52	110,512	138,001	295,840
\$25,000 to \$49,999	18	100	248,210	283,632	643,215
\$50,000 to \$99,999	20	182	505,194	682,345	1,417,424
\$100,000 to \$199,999	24	379	1,134,474	1,698,034	3,538,051
\$200,000 to \$499,999	20	572	1,805,445	3,909,196	6,919,923
\$500,000 to \$999,999	10	382	1,418,874	3,558,878	6,883,393
\$1,000,000 to \$4,999,999	26	4,366	16,201,414	30,918,209	62,153,188
\$5,000,000 and over	6	3,163	13,204,955	132,388,098	162,194,500
Head offices	—	11	73,826	—	—
Total	154	9,220	34,729,361	173,601,665	244,096,116
1957					
Under \$10,000	13	16	25,437	24,572	64,702
\$10,000 to \$24,999	27	80	189,378	191,253	451,435
\$25,000 to \$49,999	16	87	229,467	210,153	532,219
\$50,000 to \$99,999	20	162	498,054	593,163	1,384,620
\$100,000 to \$199,999	19	301	999,082	1,290,651	2,787,701
\$200,000 to \$499,999	23	636	2,317,164	3,745,415	7,371,177
\$500,000 to \$999,999	14	697	2,576,507	4,979,463	10,568,482
\$1,000,000 to \$4,999,999	22	3,543	13,668,981	24,617,296	52,696,333
\$5,000,000 and over	6	3,291	14,226,210	75,695,123	106,539,646
Head offices	—	12	73,183	—	—
Total	160	8,825	34,803,463	111,347,089	182,396,315

NON-FERROUS METAL PRODUCTS

TABLE 10. Employees and their Earnings in the Brass and Copper Products Industry, by Provinces, 1956 and 1957

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
dollars								
1956								
Quebec	459	178	2,247	68	2,952	2,957,466	8,303,806	11,261,272
Ontario	829	374	3,742	423	5,368	5,479,148	15,096,562	20,575,710
British Columbia	40	7	144	—	191	209,654	555,295	764,949
Other provinces	82	31	536	60	709	550,320	1,577,110	2,127,430
Canada	1,410	590	6,669	551	9,220	9,196,588	25,532,773	34,729,361
1957								
Quebec	475	166	2,047	66	2,754	3,205,264	7,855,818	11,061,082
Ontario	853	380	3,589	347	5,169	5,780,736	14,791,532	20,572,268
British Columbia	42	8	143	—	193	229,691	583,330	813,021
Other provinces	80	37	536	56	709	658,266	1,698,826	2,357,092
Canada	1,450	591	6,315	469	8,825	9,873,957	24,929,506	34,803,463

TABLE 11. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
number						
January	6,669	568	7,237	6,435	431	6,866
February	6,792	566	7,358	6,444	448	6,892
March	6,856	580	7,436	6,215	458	6,673
April	6,887	585	7,472	6,154	465	6,619
May	6,909	594	7,503	6,252	483	6,735
June	6,757	598	7,355	6,391	478	6,869
July	6,557	558	7,115	6,366	477	6,843
August	6,556	539	7,095	6,446	486	6,932
September	6,591	534	7,125	6,454	486	6,940
October	6,506	531	7,037	6,307	462	6,769
November	6,466	489	6,955	6,226	458	6,684
December	6,471	469	6,940	6,041	437	6,478
Average	6,669	551	7,220	6,315	469	6,784

TABLE 12. Capital and Repair Expenditures in the Brass and Copper Products Industry, 1953 - 1957

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
thousands of dollars							
1953	974	3,723	4,697	587	2,557	3,144	7,841
1954	533	3,006	3,539	617	2,647	3,264	6,803
1955	948	2,281	3,229	625	2,751	3,376	6,605
1956	4,664	4,387	9,051	640	2,994	3,634	12,685
1957 ¹	4,726	6,783	11,509	629	2,825	3,454	14,963

¹ Preliminary.

TABLE 13. Imports into Canada of Brass and Copper and their Products, 1956 and 1957

Item	1956		1957	
	Quantity	Value	Quantity	Value
Brass and its products:				
Brass in blocks, ingots or pigs	cwt.	217	9,969	77
Brass scrap	"	9,246	255,965	1,588
Brass in bars or rods	"	14,543	540,805	13,148
Brass in strips, sheets or plates	"	16,159	816,256	25,233
Brass tubing	"	17,089	1,339,260	14,027
Metal caps, for use in the manufacture of electric batteries	—	—	48,074	—
Coin locks of which solid brass or bronze are the components of chief value, plain, polished or plated	—	—	2,951	—
Pumps, hand, brass, n.o.p.	—	—	28,179	—
Valves, brass	—	—	4,811,208	—
Meters, brass, and parts, n.o.p.	—	—	520,791	—
Brass wire, for the manufacture of fourdrinier wire or of paper-machine wire cloth	—	—	—	—
Wire, brass, n.o.p.	lb.	145,737	94,416	188,897
Wire cloth, or woven wire of brass, n.o.p.	—	—	159,260	—
Manufactures of brass, n.o.p.	—	—	14,730,735	—
Copper and its products:				
Copper, in blocks, pigs or ingots	cwt.	50,815	2,110,733	83,490
Copper scrap, cathode plates of electrolytic copper for melting	"	129,173	5,057,048	77,929
Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors	"	43,246	1,662,736	31,413
Copper in bars or rods, n.o.p.	"	5,527	216,312	7,198
Copper in strips, sheets or plates	"	7,813	452,034	12,651
Copper tubing	"	18,265	1,203,557	19,160
Copper rollers and stones, used in the printing of textile fabrics or wallpaper	—	—	79,629	—
Copper wire, n.o.p.	lb.	193,483	186,350	93,073
Copper wire cloth or woven wire of copper	—	—	23,907	—
Copper, manufactures of, n.o.p.	—	—	1,433,659	—

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

TABLE 14. Exports from Canada of Brass and Copper and their Products, 1956 and 1957

Item	1956		1957	
	Quantity	Value	Quantity	Value
			cwt.	\$
Brass and its products:				
Brass scrap, dross and ashes.....	166,083	4,147,779	186,764	3,102,719
Brass in bars, ingots, rods, strips, sheets and plates.....	19,636	1,409,015	12,369	488,026
Brass tubing.....	9,048	567,752	11,419	597,520
Brass valves.....	—	537,703	—	567,068
Brass wire and bronze wire.....	329	24,150	299	26,349
Brass manufactures, n.o.p.	—	247,730	—	301,356
Copper and its products:				
Copper scrap, slag, skimmings and sludge.....	291,869	11,353,706	245,621	6,321,889
Copper in ingots, bars, cakes, slabs and billets.....	3,496,881	141,767,103	3,975,872	124,941,474
Copper in rods, strips, sheets and plates.....	198,666	9,955,771	193,664	6,643,914
Copper tubing.....	39,645	2,729,901	42,206	2,395,286
Copper wire and cable, insulated.....	—	6,563,626	—	4,131,993
Copper wire, bare	—	1,942,830	—	539,251
Copper wire screen.....	—	19,106	—	9,803
Copper manufactures, n.o.p.	—	38,278	—	32,892

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

TABLE 15. Fuel and Electricity Used in the Brass and Copper Products Industry, 1956 and 1957

Kind	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Bituminous coal:					
(a) From Canadian mines.....	ton	9,551	115,103	3,349	45,739
(b) Imported	"	14,437	167,816	20,984	258,330
Sub-bituminous coal (From Alberta mines only)	"	6	70	2	48
Anthracite coal	"	1,019	14,203	990	13,618
Coke, (For fuel only)	"	626	13,877	650	12,609
Gasoline, (Including gasoline used in cars and trucks)	Imp. gal.	324,946	126,658	296,646	115,329
Kerosene or coal oil.....	" "	54,270	12,447	24,046	6,243
Fuel oil	" "	4,542,936	662,347	4,397,791	618,445
Wood	cord	28	206	15	201
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	483,734	72,611	523,945	73,997
(b) Other manufactured gas	M cu. ft.	39,240	36,888	22,491	21,710
(c) Natural gas	"	150,519	135,748	196,283	190,895
Other fuel.....	—	—	82,430	—	92,370
Electricity purchased.....	kwh.	93,501,752	964,709	90,737,681	992,881
Total.....	—	—	2,405,113	—	2,442,415

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1957

Name of firm	Location of plant
(a) Foundries engaged chiefly in making brass valves, taps, plumbers' supplies, etc.	
New Brunswick:	
McAvity & Sons, T., Ltd.	Rothesay 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	St. Joseph St., Lachine
Robertson, James, Company Limited	946 William St., Montreal
Ontario:	
Canadian Brass, Limited	415 Dundas St., Galt
Emco Ltd.	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
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-Juillien 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.	125 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
Fonderie d'Art Vandevoorde	2000 Kent St., Montreal
Gaulin, Athanase	St-Francois, Cté, Montmagny
Hazel, James, & Son	333 Mgr. Gauvreau St., Quebec
Laliberté, P. E.	32, rue Fleurie, Quebec
La Prairie Brass Aluminum Foundry	40 Rue Ste Rose, La Prairie
Lauzon Brass and Aluminum Foundry	50 Carrier St., Lauzon
Mark Hot Foundries Ltd.	Hebert St., Montreal North, Leval
Miller's Brass Foundry, Reg'd.	791 Hertel St., Three Rivers
Mitchell, Robert, Co. Limited, The	350 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 - 17th Ave., Ville St. Michel
Sicotte, Paul	71 Dubois St., Ste. Thérèse
Supreme Precision Castings Ltd.	6637 Jeanne-Mance St., Montreal
Union Screen Plate Company of Canada, Limited	72 Queen St., Lennoxville
Verdun Brass & Aluminum Foundry Inc.	1427 Maisonneuve, Montreal
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
Canadylet - Closures Ltd.	Barrie
Craig Bronze Company	330 Horner Ave., Toronto
Coulter Copper & Brass Company, Limited	115 Sumach St., Toronto and Scarborough
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
Gasyle Precision Castings Ltd.	335 Bering, Toronto
Guelph Brass and Aluminum Co.	17 Division St., Guelph
Ingot Metal Co. Ltd.	12 Vansco Rd., Toronto

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1957 - 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:	
Industrial Fine Casting Ltd.	272 Geary Ave., Toronto
Kent, George (Canada) Ltd.	389 Horner Ave., Toronto
Kitchener Brass & Aluminum Foundry	388 Wendell Ave., Kitchener
Klassen Bronze	New Hamburg
Lawrence, T.C., & Sons	17 Jarvis St., Galt
Lofthouse Brass Manufacturing Co.	Whitby
Long Branch Foundry, The	3 Magnificent Rd., Toronto
May Foundry Co.	2029 Clark Ave., 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 Buttrey St., Niagara Falls
Non-Ferrous Castings Company	65 Frederick St., Toronto
Quality Brass Foundry	2401 Dixie Rd., Port Credit
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 St., St. Thomas
Samco Brass Ltd.	R.R. #4, St. Catharines
Sherratt, Brass Foundry Ltd.	6 Britain St., Toronto
Standard Brass & Aluminum Foundry	550 York Rd., Guelph
Standard Brass Foundry	561 Catharine St. N., Hamilton
Stoermer Bell & Brass Foundry	Kitchener
Tallman, A.H., Bronze Company Limited	Cavell Ave., Hamilton
Toronto Fitings & Foundry	196 Beverley St., Toronto
United Bronze Co.	R.R. 3, Kitchener
Usarco Ltd.	363 Wellington St. N., Hamilton
Wagman, Z., & Son Ltd.	190 Edwin Ave., Toronto
Warren Alloy Canada Ltd.	Keil Dr., Chatham
Wilson Brass & Aluminum Foundries	21 Jarvis 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
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:	
Arts Aluminum & Brass Foundry Ltd.	1950 Marine Dr., Vancouver
A-1 Pattern Shop & Brass Foundry Ltd.	36 West 3rd Ave., Vancouver
Fraser Brass Foundry	9036 Holt Rd., New Westminster
General Metals Industries	8726 Barnard St., Vancouver
Green, Wm., & Sons Brass Foundry	515 Pembroke St., Victoria
Hastings Brass Foundry Ltd.	236 Clark Drive, Vancouver
Hi-Way Foundry	1604 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	604 Clark Dr., Vancouver
North Shore Foundry Ltd.	234 Esplanade St., N. 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

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1957 - 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	Sherbrook and Durocher, Sts., Montreal East
Canadian Lighting Protection	2540 Lyall St., Montreal
Cassidy and Mailard, Limited	1156-58 Papineau Ave., Montreal
Fayle Coppersmith Works Limited	910 Wellington St., Montreal
Guard-X Reg'd	5875 Papineau Ave., Montreal
Kidde, Walter, & Company of Canada Ltd.	5500 Royalmount Ave., Montreal
Ontario Metal Spinning Co.	2279 Coupal St., Montreal
Ontario:	
Booth, W.E., Co. Ltd.	12 Mercer St., Toronto
Canadian Meter Company, Limited	Milton
Cello Products	Avenue Rd., Galt
Central Electric Wire Ltd.	18 Foster St., Perth
C-O-Two Fire Equipment of Canada Limited	91 East Don Roadway, Toronto
Dodd & Struthers	1721 Moy Ave., Windsor
Dominion Lighting Rod Company	63 Main St., Dundas
Domus Engineering Company	330 Geary Ave., Toronto
Fyr-Fyter Company of Canada, Ltd.	589 Cannon St. E., Hamilton
General Fireguard Corporation Limited, The	978 Luke Rd., Windsor
Guardian Manufacturing Ltd.	10 Brock St., Brockville
Johnston Copper & Brass Limited	11 New St., Toronto
Early Kate (Canada) Limited	42 Glasstone Ave., 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. 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
Roto Cast Ltd.	721 Eastern Ave., Toronto
S & S Metal Spinning Company	3298 Dundas St. W., Toronto
Tonner, Gordon	Oxford St., Richmond Hill
Toronto Coppersmithing Company Ltd.	80 Knox Ave., Toronto
United-Carr Fastener Company of Canada, Ltd.	Gage Ave. and Beach Road, Hamilton and Oakville
Universal Lightning Rod Company	Hespeler
Wallaceburg-Singer Ltd.	Wallaceburg
Manitoba:	
Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanese Mutual Insurance Co. (Commercial Department)	Wawanese
Alberta:	
Canadian Meter Co.	99 19-65th Ave., Edmonton
Winter's Metal Spinning Works	510-6th Ave. W., Calgary
British Columbia:	
Ellett Copper & Brass Co. Ltd.	92 West 2nd Ave., Vancouver
Empire Metal Products Ltd.	P.O. Box 551, Vancouver





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