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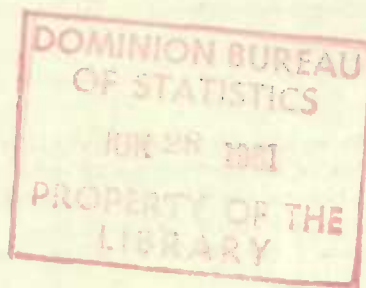
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THE BRASS AND COPPER PRODUCTS INDUSTRY

1959



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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Non-ferrous Metal Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A — Annual

M — Monthly

Q — Quarterly

Catalogue number	Title	Price
41-202	Non-ferrous Metal Products — General Review (A)50
41-204	The Aluminum Products Industry (A)50
41-206	The Brass and Copper Products Industry (A)50
41-215	The White Metal Alloys Industry (A)50
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made payable to the Receiver General of Canada and forwarded to
the Information Services Division, Dominion Bureau of Statistics,
or to the Queen's Printer, Ottawa, Canada.*

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or

plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

THE BRASS AND COPPER PRODUCTS INDUSTRY, 1959

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 eight foundries and 48 fabricating plants reported under this industry in 1959 and their factory shipments were valued at \$200,287,367. In 1958 the output value amounted to \$176,400,890 and in 1957 to \$182,396,315.

Products manufactured during 1959 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 156 plants were included in this group during 1959, of which 92 were located in Ontario, 37 in Quebec, 16 in British Columbia, 5 in Manitoba, 5 in Alberta and 1 in New Brunswick. Ontario factories accounted for 60 per cent of the total and Quebec plants for 33 per cent.

The number of employees in 1959 totalled 9,196 compared with 9,034 in 1958 and salaries and wages aggregated \$39,542,605 as against \$36,441,269 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 1. Principal Statistics of the Brass and Copper Products Industry, Significant Years 1929-59, and by Provinces, 1958 and 1959

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				dollars		
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
1955	157	8,864	32,274,041	2,189,532	150,395,034	64,086,451	216,500,000
1956	154	9,220	34,729,361	2,405,113	173,601,665	69,497,906	244,096,116
1957	160	8,825	34,803,463	2,442,415	111,347,089	67,852,993	182,396,315
1958							
Quebec	39	2,657	10,966,571	876,175	40,500,122	20,904,435	62,559,617
Ontario	90	5,613	22,836,458	1,533,993	63,560,558	42,957,173	105,842,600
British Columbia	15	154	703,170	50,326	740,142	875,222	1,683,588
Manitoba	5	132	464,503	48,786	1,226,414	875,867	2,180,039
New Brunswick	1	478	1,470,567	91,431	1,365,504	2,549,296	4,135,046
Alberta	5						
Canada	155	9,034	36,441,269	2,600,711	107,392,740	68,161,993	176,400,890
1959							
Quebec	37	2,566	11,105,847	871,339	44,264,939	22,420,141	67,066,425
Ontario	92	5,544	24,134,394	1,645,843	72,437,629	46,541,103	120,052,511
British Columbia	16	380	1,834,243	174,849	4,503,294	2,427,168	5,378,058
Manitoba	5	159	576,917	55,122	1,578,113	1,435,750	3,004,074
New Brunswick	1	547	1,891,204	103,740	2,065,481	2,938,186	4,786,299
Alberta	5						
Canada	156	9,196	39,542,605	2,850,893	124,849,456	75,762,348	200,287,367

¹ See note 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, 1958 and 1959

	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value of factory shipments
	number		dollars			
1958						
Foundries making taps, valves, etc.	14	2,908	10,880,322	445,249	10,345,037	29,922,174
Other brass and bronze foundries	95	4,553	19,278,266	1,694,380	52,556,616	89,274,342
Fabricating plants (not foundries)	46	1,573	6,282,681	461,082	44,491,087	57,204,374
Totals	155	9,034	36,441,269	2,600,711	107,392,740	176,400,890
1959						
Foundries making taps, valves, etc.	14	2,839	11,379,574	447,181	11,188,827	30,753,660
Other brass and bronze foundries	94	4,507	20,165,006	1,722,845	55,753,506	95,164,502
Fabricating plants (not foundries)	48	1,850	7,998,025	680,867	57,907,123	74,369,205
Totals	156	9,196	39,542,605	2,850,893	124,849,456	200,287,367

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 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	2,346,217	3,721,974	2,309,206	8,377,397
Ontario	10,554,080	3,809,129	5,308,428	19,671,637
Manitoba	175,779	38,659	101,742	316,180
British Columbia	95,515	51,767	84,262	231,544
New Brunswick and Alberta	222,341	513,668	281,595	1,017,604
Canada	13,393,932	8,135,197	8,085,233	29,614,362
Closing:				
Quebec	2,332,842	4,145,224	2,375,950	8,854,016
Ontario	11,963,687	3,677,024	6,012,597	21,653,308
Manitoba	210,596	62,111	143,201	415,908
British Columbia	360,993	642,564	1,220,718	2,224,275
New Brunswick and Alberta	192,054	821,653	294,718	1,308,425
Canada	15,060,172	9,348,576	10,047,184	34,455,932

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 1959 does not necessarily agree with the closing inventory for 1958 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, 1958 and 1959

Material		1958		1959	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Aluminum:					
Ingots	lb.	1,371,920	381,135	585,476	164,364
Scrap	"	4,868,493	854,261	3,851,406	809,341
Other forms	"	2,803,643	1,225,456	3,365,551	1,403,052
Antimony	"	11,373	3,296	8,101	1,926
Brass and bronze:					
Ingots	"	22,699,038	5,681,354	17,992,059	4,804,779
Scrap	"	44,456,386	8,715,980	49,072,671	10,469,827
Bars and rods	"	4,101,756	1,368,326	4,388,764	1,548,071
Plates, sheets and strip	"	1,700,522	762,224	1,232,662	600,606
Pipe and tubing	"	1,170,083	619,950	1,024,701	627,576
Wire	"	822,889	478,005	713,308	394,833
Other forms	"	3,506,438	1,942,492	3,244,622	1,896,964
Copper:					
Ingots, slabs, wire bars, etc.	"	229,103,695	59,557,850	229,943,891	69,084,030
Scrap	"	29,487,871	7,020,700	31,095,834	8,279,936
Pipe and tubing	"	578,542	308,260	424,378	263,786
Plates, sheets and strip	"	813,869	398,675	618,218	302,635
Wire	"	416,910	183,952	402,037	175,287
Other forms	"	126,877	42,611	61,060	22,340
Lead, all forms	"	1,559,869	192,316	1,643,997	185,191
Magnesium, all forms	"	60,345	27,492	33,474	10,924
Manganese metal	"	100,505	30,674	219,078	48,651
Monel metal	"	53,345	41,543	126,883	137,582
Nickel	"	813,002	610,462	473,386	335,392
Nickel-copper shot	"	10,633	7,627	6,128	4,008
Nickel-silver, all forms	"	1,311,150	371,635	1,053,165	309,159
Tin all forms:					
Phosphor tin	"	124,756	124,020	122,137	120,473
Other tin	"	220,319	190,805	176,910	175,815
Zinc:					
Ingots and slabs	"	12,524,680	1,370,708	12,784,195	1,548,917
Other forms	"	...	454,759	...	491,642
Other non-ferrous metals	"	...	740,835	...	273,729
Iron and steel:					
Pig iron	ton	3,450	221,277	2,615	182,099
Iron and steel scrap	"	2,522	108,590	4,423	199,205
Other iron and steel	"	...	1,282,609	...	2,721,171
Stainless steel:					
Plates, sheets and strip	lb.	663,807	608,134	994,711	822,779
Other forms	"	90,996	130,337	218,690	217,140
Lumber	M bd. ft.	779	99,315	985	123,671
Foundry coke	ton	1,267	42,668	1,424	50,247
Foundry sands	"	14,638	124,684	11,517	135,863
Graphite	lb.	67,370	17,870	65,950	17,477
Refractories	"	...	76,283	...	94,458
Other materials ¹	"	...	9,902,173	...	14,760,539
Containers and packing materials	"	...	1,071,397	...	1,033,971
Totals all materials .....		...	107,392,740	...	124,849,456

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$300,000. The total value of materials used by these firms was \$3,564,252 and this amount is included in "Other materials".

... Figures not appropriate or not available.

TABLE 5. Products Made in the Brass and Copper Products Industry, 1958 and 1959

Product	1958		1959	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Aluminum:				
Castings lb.	1,069,785	995,299	1,317,220	1,192,434
Other forms .....	...	2,018,754	...	2,062,219
Brass and bronze:				
Ingots ton	11,688	6,365,369	12,551	6,782,335
Castings	12,668	10,889,583	13,344	12,760,707
Scrap	770	272,549	728	313,465
Other forms (excluding cartridge cases) ¹	30,024	26,378,048	25,868	23,956,212
Copper sheets, wire rods, tubing, etc.	101,732	70,229,615	111,735	89,591,823
Fire extinguishers, hand-type .....	...	2,385,544	...	2,234,253
Hardware .....	...	82,749	...	86,869
Lightning rods and supplies .....	...	263,832	...	269,761
Plumbers' brass fittings .....	...	14,085,121	...	14,025,666
Cast iron plumbing fixtures .....	...	208,614	...	417,326
Valves:				
Iron and steel body .....	...	4,043,695	...	4,359,038
Brass and bronze, including radiator valves and traps .....	...	7,240,287	...	7,537,888
Ships' fittings .....	...	464,845	...	713,747
Steam boiler trimmings, including gauge cocks and water gauge mountings .....	...	58,000	...	26,000
Amount received for repair work .....	...	1,074,438	...	1,826,402
All other products including items made by only one or two concerns ² .....	...	29,344,548	...	32,131,222
Totals, all products .....	...	176,400,890	...	200,287,367

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.

... Figures not appropriate or not applicable.

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, 1958 and 1959
(From all industries)

Product	Value of factory shipments	
	1958	1959
	dollars	
Bath waste and overflows	713,000	836,000
Faucets, sink, lavatory and bath, and their combinations	4,471,000	4,274,000
Plumbing fixture trim	1,585,000	1,993,000
Stops	1,180,000	1,092,000
Traps	718,000	566,000
Tub-fillers, showers and combinations of same	2,145,000	1,757,000
Toilet tank fittings	1,632,000	1,870,000
Other brass plumbing fixtures	6,363,000	6,065,000
Totals	18,807,000	18,453,000

TABLE 7. Total Production¹ in Canada of Hand-Type Fire Extinguishers, 1950 - 59
(From all industries)

Year	Selling value at works	Year	Selling value at works
	\$		\$
1950	1,464,000	1955	2,890,000
1951	1,825,000	1956	2,912,000
1952	1,840,000	1957	2,649,000
1953	1,767,000	1958	2,386,000
1954	2,140,000	1959	2,234,000

¹ Factory shipments since 1952.

TABLE 8. Principal Statistics classified according to Type of Ownership, 1958 and 1959

Type	Estab- lish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Individual ownerships	30	117	332,076	458,931	989,396
Partnerships	13	107	318,939	959,489	1,497,733
Incorporated companies	112	8,810	35,790,254	105,974,320	173,913,761
Totals	155	9,034	36,441,269	107,392,740	176,400,890
1959	number		dollars		
Individual ownerships	29	97	290,727	421,412	881,528
Partnerships	14	107	322,818	895,330	1,495,651
Incorporated companies	113	8,992	38,929,060	123,532,714	197,910,188
Totals	156	9,196	39,542,605	124,849,456	200,287,367

**TABLE 9. Principal Statistics of the Brass and Copper Products Industry in Canada,
grouped according to Selling Value of Factory Shipments, 1958 and 1959**

Type	Estab- lish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
1958	number		dollars		
Under \$10,000	15	28	60,852	33,125	109,112
\$ 10,000 to \$ 24,999	18	55	155,817	138,419	353,747
25,000 " 49,999	17	85	253,267	255,008	620,321
50,000 " 99,999	21	193	690,081	601,933	1,505,396
100,000 " 199,999	19	316	1,107,883	1,152,133	2,703,092
200,000 " 499,999	21	645	2,382,727	3,059,167	6,856,843
500,000 " 999,999	17	846	3,182,426	6,119,858	11,702,071
1,000,000 " 4,999,999	22	3,914	15,170,029	25,178,816	54,859,339
5,000,000 and over	5	2,942	13,354,605	70,854,281	97,690,969
Head offices	—	10	83,582	—	—
Totals	155	9,034	36,441,269	107,392,740	176,400,890
1959	number		dollars		
Under \$10,000	14	19	43,608	21,461	75,017
\$ 10,000 to \$ 24,999	15	45	94,056	87,811	238,370
25,000 " 49,999	24	132	400,709	322,675	871,911
50,000 " 99,999	16	102	398,524	526,605	1,231,248
100,000 " 199,999	23	370	1,340,466	1,275,801	3,169,046
200,000 " 499,999	13	323	1,273,502	1,984,440	3,851,514
500,000 " 999,999	22	1,139	4,380,619	7,125,777	15,584,177
1,000,000 " 4,999,999	21	3,286	13,800,005	27,869,688	51,922,932
5,000,000 and over	8	3,769	17,721,124	85,635,198	123,343,152
Head offices	—	11	89,992	—	—
Totals	156	9,196	39,542,605	124,849,456	200,287,367

TABLE 10. Employees and their Earnings in the Brass and Copper Products Industry, by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
1958	number					dollars		
Quebec	483	160	1,960	54	2,657	3,115,549	7,851,022	10,966,571
Ontario	934	395	3,873	411	5,613	6,456,173	16,380,285	22,836,458
British Columbia	37	9	107	1	154	255,700	447,470	703,170
Other provinces	76	36	456	42	610	543,688	1,391,382	1,935,070
Canada	1,530	600	6,396	508	9,034	10,371,110	26,070,159	36,441,269
1959								
Quebec	488	163	1,873	42	2,566	3,310,230	7,795,617	11,105,847
Ontario	919	373	3,869	383	5,544	6,551,160	17,583,234	24,134,394
British Columbia	75	22	282	1	380	550,103	1,284,140	1,834,243
Other provinces	94	27	529	56	706	631,362	1,836,759	2,468,121
Canada	1,576	585	6,553	482	9,196	11,042,855	28,499,750	39,542,605

TABLE 11. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	5,954	459
February	5,958	481
March	6,038	471
April	6,111	458
May	6,150	481
June	6,155	482
July	6,017	488
August	6,118	494
September	6,062	483
October	5,979	432
November	5,910	428
December	5,732	406
Average for establishments reporting monthly detail	6,016	464
Average estimated for small establishments ²	537	18
Average for all establishments	6,553	472

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 12. Capital and Repair Expenditures in the Brass and Copper Products Industry, 1955 - 59

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						
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	4, 257	6, 740	10, 997	538	2, 896	3, 434	14, 431
1958	458	5, 710	6, 168	570	2, 911	3, 481	9, 649
1959 ^p	1, 115	3, 551	4, 666	597	2, 878	3, 475	8, 141

^P Preliminary figures.

TABLE 13. Imports into Canada of Brass and Copper and their Products, 1958 and 1959

Item	1958		1959	
	Quantity	Value	Quantity	Value
		\$		\$
Brass and its products:				
Brass in blocks, ingots or pigs..... cwt.	257	9,418	...	...
Brass scrap	7,166	121,314	1,654	39,681
Brass in bars or rods	27,087	720,145	...	...
Brass ingots bars or rods.....	...	...	22,228	689,421
Brass in strips, sheets or plates	34,662	1,092,848	38,740	1,319,533
Brass tubing.....	15,161	895,316	15,939	1,026,876
Metal caps, for use in the manufacture of electric batteries .....	...	51,752	...	56,754
Pumps, hand, brass, n.o.p. ....	...	21,696	...	18,948
Valves, brass.....	...	4,368,000	...	4,936,620
Meters, brass, and parts, n.o.p. ....	...	479,831	...	365,276
Wire, brass, n.o.p. lb.	345,130	130,522	320,825	145,056
Wire cloth, or woven wire of brass, n.o.p.....	...	53,476	...	74,650
Manufactures of brass, n.o.p. ....	...	11,809,591	...	12,824,190
Copper and its products:				
Copper, in blocks, pigs or ingots	2,700	1,050	2,090	64,865
Copper scrap, cathode plates of electrolytic copper for melting	29,297	763,328	75,680	2,054,307
Copper in bars or rods, for the manufacture of trolley, telegraph and telephone wires, electric wires, electric cables and electrical conductors	53,037	1,507,262	35,354	1,237,086
Copper in bars or rods, n.o.p.	2,559	86,707	1,958	80,839
Copper in strips, sheets or plates	12,997	479,101	9,206	435,204
Copper tubing.....	43,201	1,625,095	21,931	1,071,720
Copper rollers and stones, used in the printing of textile fabrics or wallpaper .....	...	85,809	...	114,297
Copper wire, n.o.p. lb.	210,440	109,557	50,239	31,410
Copper wire cloth or woven wire of copper .....	...	6,184	...	9,317
Copper, manufactures of, n.o.p. ....	...	1,131,034	...	1,483,485

... Figures not appropriate or not applicable.

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

TABLE 14. Exports from Canada of Brass and Copper and their Products, 1958 and 1959

Item	1958		1959	
	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$
Brass and its products:				
Brass scrap, dross and ashes	141,657	1,966,558	147,903	2,604,896
Brass in bars, ingots, rods, strips, sheets and plates	29,840	1,095,118	39,860	1,765,714
Brass tubing	11,232	556,293	12,469	623,751
Brass valves .....	...	414,596	...	412,801
Brass wire and bronze wire	889	70,447	3,408	248,426
Brass manufactures, n.o.p. ....	...	162,229	...	181,615
Copper and its products:				
Copper scrap, slag, skimmings and sludge	221,748	4,323,272	124,726	3,009,502
Copper in ingots, bars, cakes, slabs and billets	4,492,755	111,996,370	4,448,739	130,246,946
Copper in rods, strips, sheets and plates	235,764	7,189,757	253,382	8,552,763
Copper tubing	51,686	2,398,923	84,411	4,340,453
Copper wire and cable, insulated .....	...	2,075,450	...	2,464,038
Copper wire, bare .....	...	149,784	...	391,466
Copper wire screen .....	...	2,599	...	5,020
Copper manufactures, n.o.p. ....	...	48,923	...	39,428

... Figures not appropriate or not applicable.

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

TABLE 15. Fuel and Electricity Used in the Brass and Copper Products Industry, 1959

Kind	Quantity	Cost at plant
		\$
Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 3,554	46,380
(b) Imported	" 21,517	270,650
Anthracite coal	" 10	254
Coke	" 88	1,303
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 285,094	111,820
Fuel oil including kerosene or coal oil	" 4,306,074	530,816
Gas:		
(a) Liquefied petroleum gases	" 486,198	63,486
(b) Natural gas	Mcf. 358,625	306,771
Other fuel		31,071
Electricity purchased	kwh. 121,540,921	1,201,940
Steam purchased .....	...	67,833
Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	218,569
All establishments:		
Total cost of fuel and electricity .....	...	2,850,896

¹ Establishments generally reporting value of shipments of \$300,000 and over.² Establishments generally reporting value of shipments of less than \$300,000.

... Figures not appropriate or not applicable.

Directory of Firms Included in the Brass and Copper Products Industry in Canada, 1959

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	St. Joseph St., Lachine
Robertson, James, Company Limited	946 William St., Montreal
Ontario:	
Acme Brass Co.	92 Laird Dr., Toronto
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	8677-10th Ave., Ville St. Michel
Archambault Foundry Inc.	8016 Henri-Juillen 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
Fonderie d'Art Vandevoorde	2000 Kent St., Montreal
Gaulin, Athanase	St-Francois, Cte, Montmagny
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, Laval
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
Noranda Copper and Brass Limited	Sherbrook St. E., Montreal
Regent Brass Foundry	7399 St. Hubert St., Montreal
Supreme Precision Castings Ltd.	550 Montée De Liesse, Montreal
Union Screen Plate Company of Canada, Limited	72 Queen St., Lennoxville
Verdun Brass & Aluminum Foundry Inc.	2430 rue Ville-Marie, Montreal
Victory Brass & Aluminum Foundry	5244 Casgrain St., Montreal
Ontario:	
Allied Foundries Ltd.	138 Willowdale Ave., Willowdale
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 Scarboro
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
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, 1959 — 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	1430 Lakeshore Rd., Toronto
Niagara Bronze	497 Buttrey St., Niagara Falls
Non-Ferrous Castings Ltd.	65 Frederick St., Toronto
Prime Castings & Machine Shop	48 Prospect Ave., New Market
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
S.B. & A. Foundry Ltd.	550 York Rd., Guelph
St. Catharines Brass Works, Ltd.	16 Smith St., St. Catharines
St. Thomas Bronze Company, Limited	First St., St. Thomas
Samco Brass Ltd.	236 Welland Ave., St. Catharines
Stoermer Bell & Brass Foundry	Preston Bresleau Hwy., Bresleau
Sully Castings Ltd.	225 Centre St. E., Richmond Hill
Tallman, A.H., Bronze Company Limited	Cavell Ave., Hamilton
Toronto Fittings & Foundry	365 Bering Ave., Etobicoke
United Bronze Co.	R.R. 3, Kitchener
Usarco Ltd.	363 Wellington St. N., Hamilton
Uxbridge Brass Fittings	144 Brock St. W., Uxbridge
Wagman, Z., & Son Ltd.	190 Edwin Ave., Toronto
Warren Alloy Canada Ltd.	165 Keil Dr., Chatham
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
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.	9208 Hudson St., Vancouver
A-1 Pattern Shop & Brass Foundry Ltd.	16 West 3rd Ave., Vancouver
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 Ltd.	1865 W. Georgia St., Vancouver
Metro Brass & Aluminum Foundry Ltd.	3755 Keith St., South Burnaby
McPhail, Wm., & Sons (Canada) Ltd.	251 East Second Ave., Vancouver
North Shore Foundry Ltd.	234 Esplanade St. E., Vancouver
Pacific Bronze Co. Ltd.	244 Woodland Drive, Vancouver
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, 1959 - 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
Canada Wire & Cable Co., Limited	Sherbrooke and Durocher, Sts., Montreal East
Canadian Lighting Protection	2540 Lyall St., Montreal
Cassidy and Maillard, Limited	1156-58 Papineau Ave., Montreal
Fayle Coppersmith Works Limited	910 Smith St., Montreal
Guard-X Reg'd.	5875 Papineau Ave., Montreal
Kidde, Walter, & Company of Canada, Ltd.	5500 Royalmount Ave., Montreal
Modern Metal Spinning Reg'd.	4249 Frontenac St., Montreal
Ontario Metal Spinning Co.	2279 Coupal St., Montreal
Ontario:	
Booth, W.E., Co., Ltd.	12 Mercer St., Toronto
Calumet & Hecla of Canada, Ltd.	London
Canadian Meter Company, Limited	Milton
Cello Products	Avenue Rd., Galt
Central Electric Wire Ltd.	1 North 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	Mill St., Dundas
Domus Engineering Company	330 Geary Ave., Toronto
Durham Pure Copper Lightning Conductor	Queen St., Durham
General Fire Extinguisher Corporation (Canada), Ltd.	978 St. Luke Rd., Windsor
Guardian Manufacturing Ltd.	10 Brock St., Brockville
Johnston Copper & Brass Limited	11 New St., Toronto
Kurly Kate (Canada), Limited	42 Gladstone Ave., Toronto
Lauder Brass Company Limited	186 Adelaide St. W., Toronto
Linde Air Products Co. (Div. of Union Carbide Can., Ltd.)	805 Davenport Rd., 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
Roto Cast Ltd.	721 Eastern Ave., Toronto
Shewell Pattern & Mfg., Co.	450 Upper Sherman St., Hamilton
Tonner, Gordon	Oxford St., Richmond Hill
Toronto Coppersmithing Company Ltd.	80 Knox Ave., Toronto
United-Carr Fastener Company of Canada, Ltd.	37 Forsythe St. S., Oakville
United-Carr Fastener Company of Canada, Ltd.	231 Gage Ave. N., Hamilton
Wallaceburg-Singer Ltd.	Wallaceburg
Manitoba:	
Canadian Electric & Brass Ltd.	574½ Minto St., Winnipeg
Wawanesa Mutual Insurance Co. (Commercial Department)	Wawanesa
Alberta:	
Canadian Meter Co.	9919-65th Ave., Edmonton
Winter's Metal Spinning Works	4303-17th Ave. S.E., Forest Lawn
British Columbia:	
Ellett Copper & Brass Co., Ltd.	92 West 2nd Ave., Vancouver
Northern Machine & Mfg. Co., Ltd.	1885 West 15th, Vancouver
Western Copper Mills Ltd.	Delta

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