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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

THE

BRASS & COPPER PRODUCTS INDUSTRY

IN

CANADA

1934

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA

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MANUFACTURES OF THE NON-FERROUS METALS

THE BRASS AND COPPER PRODUCTS INDUSTRY, 1934.

This report covers the operations of brass foundries and other factories in Canada engaged chiefly in the manufacture of commodities (other than electrical supplies) from brass, bronze and copper. Eighty-one foundries and 44 fabricating plants reported under this industry in 1934 and production was valued at \$19,309,314 at factory prices, compared with outputs worth \$13,150,559 in 1933 and \$9,594,115 in 1932. The record output value for the industry was \$36,115,581 attained in 1929.

Products manufactured during 1934 included copper wire rods, \$6,275,199; copper sheets, plates and tubing, \$1,418,188; brass bars, rods, sheets and tubing, \$1,561,218; railway car and locomotive bearings and fittings, \$1,140,981; brass and bronze wire cloth, \$1,067,508; brass valves, \$769,743; iron valves, \$344,333; brass taps, \$154,629; other water and steam fittings, \$112,904; other plumbers' supplies, \$994,020; brass castings, \$510,944; bronze castings, \$225,205; bronze rods, plates, etc., \$328,058, and many other commodities of less importance. Copper wire and cable lighting fixtures, switches and other such articles for electrical purposes have not been listed under this industry as the concerns which were engaged chiefly in making these products have been classified to the Electrical Apparatus and Supplies Industry which is reviewed in a separate report. The total Canadian production of brass and copper wire and cable, lighting fixtures and commercial castings of brass, bronze and copper is recorded in Tables 12 to 14 of this bulletin.

Of the 125 factories included in this group in 1934, 81 were located in Ontario, 26 in Quebec, 10 in British Columbia, 5 in Manitoba and 1 in each of Nova Scotia, New Brunswick and Alberta. The works in Ontario accounted for 57 per cent of the production and the concerns in Quebec for 37 per cent.

Capital employed in 1934 was reported at \$22,325,567 of which \$13,607,513 represented the value of lands, buildings and equipment, \$4,492,135 the value of inventories and \$4,225,919 the total of operating capital. About 57 per cent of this investment was in Ontario and 36 per cent in Quebec.

The number of employees in 1934 was 3,932 compared with 3,395 in 1933. Salaries and wages aggregated \$4,187,652 in 1934 as against \$3,416,823 for last year.

Materials used for manufacturing during 1934 cost \$11,177,964 delivered at the works. About 45 per cent of this expenditure was for copper ingots, slabs, etc., chiefly for rolling into wire rods for the manufacture of electrical wires and cables.

Three rolling mills operated during 1934 as follows: Anaconda American Brass Ltd., at New Toronto, Ont.; Eugene F. Phillips Electrical Works Limited at Brockville, Ont.; and Canada Wire and Cable Company Limited at Montreal East, P.Q. The first mentioned company manufactured bars, rods, sheets, plates, wire and tubing of brass, bronze and copper, while the other two mills rolled copper wire rods only.

Table 1 - PRINCIPAL STATISTICS, 1929 - 1934.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1929	102	27,409,022	6,232	7,800,591	21,118,038	36,115,581	14,997,543
1930	117	26,820,527	5,297	6,742,752	13,355,186	25,412,225	12,057,039
1931	127	24,351,059	4,437	5,627,486	7,200,608	16,052,756	8,852,148
1932	119	23,148,843	3,535	3,880,838	3,949,157	9,594,115	5,644,958
1933 -							
Foundries making taps, valves, etc.	13	6,947,490	1,043	972,794	284,253	1,785,255	1,501,002
Other brass and bronze foundries	63	8,350,091	1,490	1,577,695	2,699,584	5,302,177	2,602,593
Fabricating plants (not foundries).	47	6,869,540	862	866,334	4,425,799	6,063,127	1,637,328
TOTAL, 1933 ..	123	22,167,121	3,395	3,416,823	7,409,636	13,150,559	5,740,923
1934 -							
Foundries making taps, valves, etc.	12	6,463,231	1,144	1,121,915	438,679	2,378,185	1,939,506
Other brass and bronze foundries	69	8,881,171	1,953	2,134,924	3,734,906	8,064,155	4,329,249
Fabricating plants (not foundries).	44	6,981,165	835	930,813	7,004,379	8,866,974	1,862,595
TOTAL, 1934 ..	125	22,325,567	3,932	4,187,652	11,177,964	19,309,314	8,131,350

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1933 and 1934.

Provinces	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1933							
Quebec	26	7,833,391	1,065	1,064,714	3,580,672	5,149,007	1,568,335
Ontario	79	12,667,878	2,006	2,005,495	3,437,836	6,991,934	3,554,098
British Columbia..	9	91,431	40	36,661	19,809	79,191	59,382
Nova Scotia	1)						
New Brunswick ...	1)						
Manitoba	6)	1,574,421	284	309,953	371,319	930,427	559,108
Alberta	1)						
CANADA	123	22,167,121	3,395	3,416,823	7,409,636	13,150,559	5,740,923
1934							
Quebec	26	8,092,766	1,133	1,184,527	4,758,379	7,219,090	2,460,711
Ontario	81	12,752,840	2,392	2,597,236	6,035,541	10,974,073	4,938,532
British Columbia.	10	120,835	53	55,531	33,509	117,897	84,388
Nova Scotia	1)						
New Brunswick ...	1)						
Manitoba	5)	1,359,123	354	350,358	350,535	998,254	647,719
Alberta	1)						
CANADA	125	22,325,567	3,932	4,187,652	11,177,964	19,309,314	8,131,350

Table 3 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934.

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(a) PRODUCTION				
Under \$5,000	24	166,148	55	69,988
\$5,000 to \$10,000	18	207,601	59	132,811
\$10,001 to \$25,000	30	668,775	213	501,027
\$25,001 to \$50,000	16	1,067,362	206	549,741
\$50,001 to \$100,000	6	965,361	188	411,701
\$100,001 to \$250,000	16	3,052,140	835	2,390,144
\$250,001 to \$500,000	9	5,569,989	1,103	3,104,413
Over \$500,000	6	10,628,191	1,273	12,149,489
TOTAL	125	22,325,567	3,932	19,309,314
(b) NUMBER OF EMPLOYEES				
1 or 2	22	192,978	33	94,271
3 to 10	54	956,707	308	798,403
11 to 20	10	761,608	138	369,268
21 to 50	18	3,700,890	569	4,425,585
51 to 100	12	4,650,350	887	6,216,620
101 to 500	9	12,063,034	1,997	7,405,167
TOTAL	125	22,325,567	3,932	19,309,314
(c) CAPITAL EMPLOYED				
Under \$25,000	63	588,788	260	651,515
\$25,000 to \$100,000	24	1,067,565	315	931,117
\$100,001 to \$500,000	27	5,890,266	1,435	3,880,208
\$500,001 to \$1,000,000	5	3,353,160	527	4,014,629
Over \$1,000,000	6	11,425,788	1,395	9,831,845
TOTAL	125	22,325,567	3,932	19,309,314

Table 4 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1933 and 1934.

Provinces	Present value of lands, buildings, fixtures, machinery and tools \$	Inventory value of materials on hand, stocks in process, fuel and other supplies on hand \$	Inventory value of finished products on hand \$	Operating capital (cash, bills and accounts re- ceivable and prepaid expenses) \$	TOTAL CAPITAL EMPLOYED \$
<u>1933</u>					
Quebec	5,608,406	749,249	520,128	955,608	7,833,391
Ontario	7,124,741	1,327,093	1,434,870	2,781,174	12,667,878
British Columbia	46,966	11,168	8,686	24,611	91,431
Other provinces	762,212	255,471	165,989	390,749	1,574,421
CANADA	13,542,325	2,342,981	2,129,673	4,152,142	22,167,121
<u>1934</u>					
Quebec	5,579,005	853,881	668,573	991,307	8,092,766
Ontario	7,184,653	1,330,128	1,292,936	2,945,123	12,752,840
British Columbia	67,229	14,386	8,466	30,754	120,835
Other provinces	776,626	225,995	97,770	258,735	1,359,126
CANADA	13,607,513	2,424,390	2,067,745	4,225,919	22,325,567

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1933 and 1934.

Provinces	Average number of employees					Salaries	Wages	TOTAL
	On salaries		On wages		SALARIES AND WAGES			
	Male	Female	Male	Female				TOTAL
						\$	\$	\$
1933								
Quebec	214	42	730	79	1,065	398,818	665,896	1,064,714
Ontario	400	92	1,395	119	2,006	812,238	1,193,257	2,005,495
British Columbia	5	1	33	1	40	6,742	29,919	36,661
Other provinces.	66	13	198	7	284	136,806	173,147	309,933
CANADA	685	148	2,356	206	3,395	1,354,604	2,062,219	3,416,823
1934								
Quebec	200	45	804	84	1,133	405,322	779,205	1,184,527
Ontario	402	108	1,734	148	2,392	869,742	1,727,494	2,597,236
British Columbia	9	3	41	...	53	16,693	38,838	55,531
Other provinces.	83	13	246	12	354	163,565	186,793	350,358
CANADA	694	169	2,825	244	3,932	1,455,322	2,732,330	4,187,652

Table 6 - WAGE-EARNERS, BY MONTHS, 1933 and 1934. (On the 15th of each month or the nearest representative date)

Months	1 9 3 3			1 9 3 4		
	Male	Female	TOTAL	Male	Female	TOTAL
January	2,194	195	2,389	2,485	192	2,677
February	2,135	203	2,338	2,668	209	2,877
March	2,121	197	2,318	2,795	217	3,012
April	2,213	183	2,396	2,834	230	3,064
May	2,277	193	2,470	2,899	249	3,148
June	2,387	205	2,592	2,962	254	3,216
July	2,439	202	2,641	2,878	240	3,118
August	2,498	214	2,712	2,834	239	3,073
September	2,457	211	2,668	2,872	240	3,112
October	2,501	225	2,726	2,942	232	3,174
November	2,540	215	2,755	2,895	239	3,134
December	2,478	198	2,676	2,847	238	3,085
AVERAGE	2,356	206	2,562	2,825	244	3,069

Table 7 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian ..	short ton	3,959	21,833	5,458	28,193
Imported ..	short ton	10,492	54,494	11,262	63,301
Anthracite coal	short ton	1,265	11,807	1,450	14,337
Coke	short ton	3,424	27,863	4,288	35,498
Gasoline	Imp. gal.	1,832	422	3,823	962
Kerosene	Imp. gal.	2,348	440	1,264	234
Fuel oil	Imp. gal.	1,245,652	95,252	1,319,888	101,052
Wood	cord	226	1,259	401	2,191
Gas - Manufactured	M cu.ft.	14,307	13,842	16,635	13,867
Natural	M cu.ft.	16,341	5,482	14,491	4,879
Other fuel	xx	...	407	...	485
Electricity purchased	K.W.H.	17,170,905	226,800	21,257,215	258,104
TOTAL	xx	...	459,901	...	523,103

Table 8 - POWER EQUIPMENT, 1933 and 1934.

Kinds	1 9 3 3		1 9 3 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	11	1,380	13	1,530
Gasoline, gas and oil engines	2	58	1	8
Hydraulic turbines or water wheels ...	2	50	1	25
Total Primary Equipment	15	1,488	15	1,563
Electric motors run by purchased power	1,254	19,555	1,365	22,748
TOTAL	1,269	21,043	1,380	24,311
Electric motors run by power generated by above primary units	15	340	15	343
Total Electric Motors	1,269	19,895	1,380	23,091
Boilers	34	3,207	29	2,539

Table 9 - MATERIALS USED, 1933 and 1934.

Materials	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Aluminium -					
Ingots	lb.	75,067	11,250	93,634	14,797
Scrap	lb.	588,647	62,828	1,140,245	144,151
Sheets	lb.	30,043	8,269	52,180	12,849
Castings	lb.	9,948	1,768	34,594	4,631
Other	lb.	23,208	2,429	8,266	1,903
Brass -					
Ingots	lb.	471,312	37,844	578,710	43,680
Scrap	lb.	3,920,655	247,075	5,165,980	342,569
Bars and rods	lb.	382,188	63,137	563,489	71,556
Plates and sheets	lb.	402,716	59,264	190,797	25,892
Pipe and tubing	lb.	137,829	26,794	211,874	40,468
Wire	lb.	415,341	113,025	466,321	122,813
Castings	lb.	117,815	28,147	231,088	51,609
Other	lb.	76,951	13,895	644,222	99,443
Bronze -					
Ingots	lb.	181,304	12,344	446,224	35,445
Scrap	lb.	6,456,295	394,536	8,372,401	485,552
Bars and rods	lb.	25,209	4,897	32,295	4,613
Plates and sheets	lb.	19,499	5,149	24,330	5,351
Pipe and tubing	lb.	481	106	4,616	833
Wire	lb.	395,968	171,951	528,107	212,587
Castings	lb.	46,952	9,284	58,579	14,715
Other	lb.	24,631	4,678	24,057	4,241
Copper -					
Ingots, billets, slabs, etc. ..	lb.	52,020,637	3,623,671	64,445,050	5,013,162
Scrap	lb.	1,382,467	100,805	4,318,264	296,765
Bars and rods	lb.	12,768,699	979,924	32,580,001	2,436,054
Pipe and tubing	lb.	51,426	8,407	172,488	29,694
Plates and sheets	lb.	334,103	55,368	447,476	79,331
Wire	lb.	1,072,134	91,241	312,668	34,541
Castings	lb.	285,892	18,415	39,517	3,211
Other	lb.	16,694	3,907	39,372	8,198

Table 9 - MATERIALS USED, 1933 and 1934. (concluded)

Materials	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Lead -					
Pig	lb.	204,153	8,000	631,928	23,045
Scrap	lb.	64,935	2,675	113,058	3,396
Other	lb.	5,678	448	6,217	801
Tin -					
Ingots	lb.	125,526	50,319	261,354	128,606
Scrap	lb.	3,568	1,293	91,939	19,830
Other	lb.	19,339	5,007	5,038	2,438
Zinc -					
Ingots and slabs	lb.	3,569,717	142,873	3,691,222	182,665
Scrap	lb.	20,506	906	22,904	1,095
Other	lb.	237,493	24,979	228,954	22,721
Other non-ferrous metals	xx	...	128,541	...	154,856
Iron and steel -					
Pig iron	long ton	626	14,134	917	21,625
Castings, iron	short ton	116	12,304	184	22,195
Castings, steel	short ton	11	2,639	20	5,437
Bars and rods, steel	short ton	95	26,937	96	12,912
Wire, steel	short ton	123	15,350	284	30,661
Sheets, steel	short ton	199	21,139	254	23,304
Scrap, iron and steel	short ton	1,418	16,039	1,899	20,010
Other iron and steel	short ton	206	25,211	400	42,276
Lumber	M cu.ft.	417	20,407	768	41,252
Foundry facings	lb.	127,258	3,531	193,823	6,294
Moulding sands	lb.	3,575,104	10,307	6,217,054	14,499
Plating and polishing supplies ...	xx	...	6,948	14,467
Containers and packing materials .	xx	...	24,546	35,163
All other materials	xx	...	684,695	...	707,762
TOTAL	xx	...	7,409,636	...	11,177,964

Table 10 - PRODUCTS MADE, 1933 and 1934.

NOTE - Data in this table are for the Brass and Copper Products Industry only and represent only the production of firms classified to this group. (See directory) The figure (1) indicates that the production figures given in this table do not represent the total output for Canada as these articles were produced also in other industrial groups.

Products	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Aluminium -					
Castings (1)	lb.	266,617	132,082	785,856	188,675
Other	lb.	21,829	2,733	541,053	68,946
Brass -					
Ingots (1)	lb.	431,555	32,158	1,500,510	104,145
Castings, not elsewhere specified (1)	lb.	1,214,365	274,848	2,292,582	510,944
Scrap	lb.	273,521	16,714	305,156	20,182
Other, including bars and rods, sheets, tubing and wire which were reported by only one company ..	lb.	8,556,977	1,229,642	10,140,938	1,561,218

Table 10 - PRODUCTS MADE, 1933 and 1934. (concluded)

NOTE - Data in this table are for the Brass and Copper Products Industry only and represent only the production of firms classified to this group. (See directory). The figure (1) indicates that the production figures given in this table do not represent the total output for Canada as these articles were produced also in other industrial groups.

Products	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Bronze -					
Ingots (1)	lb.	152,968	14,124	728,581	84,087
Castings, not elsewhere speci- fied (1)	lb.	922,854	195,123	1,006,305	225,205
Other, including bars and rods, sheets, plates and strip, screen plate, tubing and wire	lb.	127,065	45,174	1,563,440	328,058
Copper -					
Ingots (1)	lb.	23,149	1,861	46,072	3,634
Castings	lb.	40,055	9,806	55,149	13,421
Bars and rods (except wire rods)	lb.	157,283	25,638	238,799	39,706
Wire rods	lb.	52,305,438	3,680,284	78,399,983	6,275,199
Scrap	lb.	475,722	33,474	1,127,522	79,513
Other, including plates and sheets, and tubing	lb.	4,925,294	829,677	8,059,411	1,418,188
Iron castings (1)	short ton	1,601	136,249	2,080	198,779
Architectural work, brass and bronze (1)	xx	...	49,870	...	43,967
Architectural work, iron (1)	xx	...	63,380	...	19,841
Brass and copper hollowware and spinnings	xx	...	8,520	...	27,558
Fire extinguishers (1)	xx	...	45,338	...	34,871
Hardware, builders' (1)	xx	...	31,672	...	41,536
Lighting fixtures (1)	xx	...	69,766	...	80,334
Lightning rods and supplies	xx	...	150,930	...	48,910
Meters, water and gas, and parts ..	xx	...	171,312	...	131,065
Plumbers' supplies, not elsewhere specified (1)	xx	...	637,668	...	994,020
Railway car and locomotive bearings and fittings	lb.	7,809,516	1,087,814	11,341,788	1,140,981
Tanks, brass and copper	xx	...	55,351	...	64,082
Taps, brass - Quantity given	No.	105,743	47,307	145,435	76,971
Quantity not given ..	xx	...	80,473	...	77,658
Valves, brass -Quantity given	No.	158,596	342,007	266,477	583,532
Quantity not given ..	xx	...	111,491	...	186,211
Valves, iron(1)Quantity given	No.	5,902	128,992	10,652	344,333
Quantity not given ..	xx	...	52,808
Water and steam fittings, not else- where specified	xx	...	168,493	...	112,904
Wire cloth, brass and bronze	sq.ft.	1,894,716	878,877	2,213,225	1,067,508
Custom work and repairs	xx	...	287,135	...	357,833
All other products (x)	xx	...	2,021,768	...	2,755,299
TOTAL	xx	...	13,150,559	...	19,309,314

(x) Includes nickel-silver sheets and blanks, metal fasteners, furniture trimmings, bronze powders, washing machines, pins, auto hardware, photo engravers plates, fire department supplies, gauges, pot scourers, and other such articles which were reported by only one or two concerns in this industry and which, therefore, cannot be itemized separately under the Statistics Act.

Table 11 - TOTAL PRODUCTION IN CANADA OF BRASS AND COPPER WIRE AND CABLE, 1933 and 1934.

NOTE - These figures represent the total output for Canada and include the brass and copper wire and cable made by concerns which were not classified to the Brass and Copper Products Industry.

Kinds	Selling value at works 1933	Selling value at works 1934
	\$	\$
Brass wire	54,919	92,109
Copper wire, bare	1,129,080	1,692,376
Weatherproof	611,741	939,614
Rubber insulated, braided	918,527	1,416,529
Cambric insulated, braided	53,569	90,080
Rubber insulated, leaded	180,338	299,891
Cambric insulated, leaded	88,603	172,718
Paper insulated, leaded	148,425	185,865
Telephone cable of all kinds	387,235	423,922
Armoured cable	406,916	496,277
Cord, heater, lamp, fixture, all rubber, etc.	265,591	550,037
All other copper wire and cable	958,692	1,269,404
Total Brass and Copper Wire and Cable	5,203,636	7,628,822

Table 12 - TOTAL PRODUCTION IN CANADA OF COMMERCIAL CASTINGS OF BRASS, BRONZE AND COPPER, 1933 and 1934.

NOTE - These figures represent the total output for Canada under these headings and include the castings made as minor products by concerns which were not classified to the Brass and Copper Products Industry.

	1 9 3 3		1 9 3 4(x)	
	Quantity	Selling value	Quantity	Selling value
	Pounds	at works \$	Pounds	at works \$
Brass castings	2,867,439	557,475	3,784,836	757,790
Bronze castings	1,049,465	219,801	1,179,006	259,576
Copper castings	50,055	13,268	65,149	16,921
TOTAL	3,825,267	748,111	5,028,991	1,034,287

(x) Preliminary.

Table 13 - TOTAL PRODUCTION IN CANADA OF ELECTRIC LIGHTING FIXTURES, 1933 and 1934.

NOTE - These figures represent the total output for Canada under these headings and include the production by concerns which were not classified to the Brass and Copper Products Industry.

	Selling value at works, 1933	Selling value at works, 1934
	\$	\$
Interior lighting fixtures, residential	524,776	633,835
Interior lighting fixtures, metal reflectors	57,451	85,665
All other interior lighting fixtures	85,239	100,808
Exterior lighting standards	17,352	21,360
Exterior lighting fixtures	45,344	73,220
Exterior lighting control devices	3,301	9,714
Searchlights and floodlights	7,399	20,661
All other lighting equipment	152,230	50,156
TOTAL LIGHTING FIXTURES	893,092	995,419

Table 14 - IMPORTS INTO CANADA OF BRASS AND COPPER AND THEIR PRODUCTS, 1933 and 1934.

		1 9 3 3		1 9 3 4	
		Quantity	Value	Quantity	Value
			\$		\$
Brass and Its Products -					
Brass in blocks, ingots or pigs	cwt.	4	88	190	2,352
Brass, scrap	cwt.	776	5,081	1,056	7,844
Brass caps, adapted for use in the manu- facture of electric batteries	xx	...	9,586	...	12,687
Brass cups, being rough blanks, for the manufacture of paper shells or cartridges x		...	44,499	...	48,026
Brass in bars and rods, in coils or other- wise, not less than 6 feet in length ...	cwt.	1,591	20,677	2,699	34,050
Brass in strips, sheets or plates, not polished, planished or coated	cwt.	1,134	20,176	2,485	44,934
Brass tubing, not polished, bent or other- wise manufactured in lengths not less than 6 feet	lb.	275,740	55,382	329,483	70,035
Carburetors of brass	xx	...	1,762	...	1,594
Coin locks	xx	...	1,088	...	1,226
Pumps, hand, brass, n.o.p.	xx	...	3,150	...	7,540
Valves, brass	xx	...	134,117	...	239,861
Water meters and parts, n.o.p.	No.	339	8,685	964	12,724
Wire, brass, n.o.p.	lb.	365,356	83,237	434,692	92,458
Wire cloth, or woven wire of brass, n.o.p.	xx	...	29,777	...	34,135
Manufactures of brass, n.o.p.	xx	...	1,078,445	...	1,449,687
TOTAL BRASS AND ITS PRODUCTS	xx	...	1,495,750	...	2,059,153
Copper and Its Products -					
Copper, precipitate of, crude	lb.	20	4	704	113
Copper, in blocks, pigs or ingots	cwt.	172	1,603	347	3,693
Copper, scrap; cathode plates of electro- lytic copper for melting	cwt.	40	247	267	1,256
Copper in bars or rods, when imported by manufacturers of trolley, telegraph and telephone wires, electric wires and cables for use in the manufacture of such articles in their own factories, also copper bars for use only in the manufacture of rods to be used exclusively as electrical conductors	cwt.	1,014	12,384	4,751	54,852
Copper in bars or rods, in lengths of not less than 6 feet, unmanufactured	cwt.	3,059	38,736	2,422	31,097
Copper in strips, sheets or plates, not polished, planished or coated	cwt.	1,441	25,142	2,237	37,707
Copper tubing, in lengths of not less than 6 feet, and not polished, bent or other- wise manufactured	lb.	256,491	53,464	329,275	74,887
Copper rollers adapted for use in calico printing	xx	...	51,115	...	53,222
Copper wire, n.o.p.	lb.	22,355	3,997	72,515	18,011
Copper wire or cloth or woven wire of copper	xx	...	4,304	...	1,803
Copper, manufactures of, n.o.p.	xx	...	249,680	...	287,429
TOTAL COPPER AND ITS PRODUCTS	xx	...	440,676	...	564,070

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1934.

NOTE - This directory carries only the names of the concerns which the Bureau has classified to the Brass and Copper Products Industry. This industry includes all works which were engaged CHIEFLY in making brass and bronze or articles (other than wire or electrical equipment) from brass, bronze and copper. Manufacturers of copper wire and cable and of electrical equipment have been classified to the Electrical Apparatus Industry which is covered by a separate bulletin.

Names of Firms

Location of Plants

(a) Firms engaged Chiefly in making VALVES, TAPS, PLUMBERS' SUPPLIES, ETC.

NEW BRUNSWICK -

McAvity & Sons, T., Ltd.

Rothsay Ave., Saint John

QUEBEC -

Cuthbert, W. R., & Co.

55 Duke St., Montreal

Jenkins Bros. Ltd.

617 St. Remi St., Montreal, and St. Joseph St., Lachine

Robertson, The James, Co. Ltd.

946 William St., Montreal

ONTARIO -

Canadian Brass Co. Ltd.

415 Dundas St., Galt

Empire Brass Mfg. Co. Ltd.

Dundas St. E., London

Galt Brass Co. Ltd.

471 Dundas St., Galt

Malcolm Supplies Ltd.

62 Richmond St. E., Toronto

Morrison, The James, Brass Mfg. Co. Ltd.

276 King St. W., Toronto

Mueller Ltd.

Clifford St., Sarnia

Penberthy Injector Co. Ltd.

105 Windsor Ave., Windsor

Wolverine Ltd.

76 Nelson St., Toronto

(b) Firms engaged Chiefly in operating BRASS AND BRONZE FOUNDRIES (OTHER THAN FOR VALVES, TAPS, ETC.)

NOVA SCOTIA -

Collings, Wm., & Sons, Ltd.

711 Barrington St., Halifax

QUEBEC -

Archambault Brass Foundry

8010 Henri Julien St., Montreal

Bouliane Brass Foundry

941 Clarke St., Montreal

Canadian Bronze Powder Works Ltd.

Incorporating Valleyfield Iron Works

Valleyfield

Clark, C. O., & Bro.

5010 St. Patrick St., Montreal

Eastern Brass Foundry, Ltd.

541 Harbour St., Montreal

Empire Brass Foundry Ltd.

137 Nazareth St., Montreal

Excel Brass & Aluminum Works

117 Nazareth St., Montreal

Hazel, James, & Son

128 Grant St., Quebec

Miller's Brass Foundry, Reg'd.

791 Hertel St., Three Rivers

Mitchell, The Robert, Co. Ltd.

750 Belair Ave., Montreal, and 102 Monkland Blvd., St. Laurent

Montreal Bronze Ltd.

999 Delorimier Ave., Montreal

Union Screen Plate Co. of Canada, Ltd.

78 Main St., Lennoxville

Vandevoorde Foundry

910 Cartier St., Montreal

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1934.
(continued)

Names of Firms

Location of Plants

(b) Firms engaged Chiefly in operating BRASS AND BRONZE FOUNDRIES (OTHER THAN FOR VALVES, TAPS, ETC.) (continued)

ONTARIO -

Anaconda American Brass Ltd.	8th and Birmingham Sts., New Toronto
Atkins & Hoyle	69 Portland St., Toronto
Balfour, Hugh	65 Frederick St., Toronto
Brydon Brass Mfg. Co.	35 Collier St., Toronto
Canadian Bell Foundry	34 Lancaster St., Kitchener
Chadwick-Carroll Brass & Fixtures Ltd.	365 Wilson St., Hamilton
Clayton Brass Works, The	157 Waterloo St., E., Guelph
Coulter Copper & Brass Co. Ltd.	115 Sumach St., Toronto
Dempsey, Chas. W.	17 Division St., Guelph
Dominion Brass Products Ltd.	65 Saulter St., Toronto
Dominion Gas Meter Co. Ltd.	328 Wortley Road, London
Dominion Smelting Works Ltd.	25 McKay St., Ottawa
Fisher & Son	366 Wilson St., Hamilton
Foley, J. J., Brass Foundry	Atherley Road, Orillia
Hahn Brass Co. Ltd.	Waterloo St., New Hamburg
Howard, Fred G.	Elmira
Kitchener Brass & Aluminium Foundry	983 King St. W., Kitchener
Kondu Manufacturing Co. Ltd.	South St., Preston
Lawrence, T.C., & Son	512 Dundas St., Galt
May Foundry Co.	2018 Buchanan Ave., Niagara Falls
Monarch Foundry Co.	71 Browns Ave., Toronto
National Brass & Aluminum Foundry	117 St. Patrick St., Toronto
Ottawa Brass Foundry	542 Wellington St., Ottawa
Ottawa Car Mfg. Co. Ltd.	424 Slater St., Ottawa
Petrie Brass Company	163 Sterling Road, Toronto
Precision Die Castings Ltd.	282 St. Helens Ave., Toronto
Quality Brass Foundry	Rossin House Lane, Toronto
Queen City Brass Foundry	28 Dalhousie St., Toronto
St. Catharines Brass Works Ltd.	62 George St., St. Catharines
St. Thomas Bronze Co. Ltd.	First Ave., St. Thomas
Sherratt, W., & Son	6 Britain St., Toronto
Standard Brass Foundry	Catharine and Burlington Sts., Hamilton
Stratford Brass Co. Ltd.	342 Erie St., Stratford
Sully Brass Foundry Ltd.	11 Wabash Ave., Toronto
Tallman, A. H., Bronze Co. Ltd.	Cavell Ave., Hamilton
Tools and Hardware Ltd.	West St. S., Orillia
Toronto Brass Machine & Foundry Ltd.	78 Market St., Toronto
Wallaceburg Brass Limited	355 Wallace St., Wallaceburg
Wilson & Cousins, Ltd.	35 McCaul St., Toronto
Windsor Brass Works Ltd.	400 Hanna St. E., Windsor

MANITOBA -

Acme Brass Foundry	576 Minto St., Winnipeg
Northwestern Brass Ltd.	13 Bury St., Winnipeg
Western Canada Bronze Co.	330 Newton Ave., Winnipeg
Winnipeg Brass Limited	600 Clifton St., Winnipeg

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1934.
(continued)

Names of Firms

Location of Plants

(b) Firms engaged Chiefly in operating BRASS AND BRONZE FOUNDRIES (OTHER THAN FOR VALVES, TAPS, ETC.) (concluded)

ALBERTA -

Northwestern Brass Ltd.

1809 - 24th Ave. E., Calgary

BRITISH COLUMBIA -

Hastings Brass Foundry

236 Clark Drive, Vancouver

McPhail, Wm., & Sons

251 East 2nd Ave., Vancouver

Ornamental Bronze Company, Ltd.

122 West 6th Ave., Vancouver

Service Foundry

237 Industrial Ave., Vancouver

Smith Bros. Foundry Ltd.

632 Pembroke St., Victoria

Star Foundry Ltd.

194 West 3rd Ave., Vancouver

Sumner Brass Foundry Ltd.

619 Bidwell St., Vancouver

Vancouver Brass Works

1304 Frances St., Vancouver

Victoria Brass & Iron Works Ltd.

Pioneer St., Esquimalt

Wilson's Brass Foundry

22 - 2nd Ave. E., Vancouver

(c) Firms engaged Chiefly in making FABRICATED ARTICLES (NOT FOUNDRIES)

QUEBEC -

Booth-Coulter Coppersmithing Co. Ltd.

997 Wellington St., Montreal

Brass and Bronze Mfg. Co. Ltd.

269 Craig St. W., Montreal

Brehn, Chas. G.

756 St. Paul St. W., Montreal

Canada Wire & Cable Co. Ltd.

Montreal East

Cassidy and Maillard Ltd.

1575 Craig St. E., Montreal

Christie, George, (Canada) Ltd.

2106 Bellefueille St., Three Rivers

Edwards, O.M., Co. of Canada, Ltd.

5010 St. Patrick St., Montreal

Imperial Pin Co. Ltd.

2210 Parthenais St., Montreal

Johnson Wire Works Ltd., The

4760 Dagenais St., Montreal

Metalcraft Mfg. Co.

907 St. Alexander St., Montreal

ONTARIO -

Air-Coils Ltd.

Colborne St., Oakville

Alcor Co.

220 King St. W., Toronto

Beaver Brass Mfg. Co.

83 Ryerson Ave., Toronto

Booth, W. E., Co. Ltd.

12 Mercer St., Toronto

Breen, S. V.

20 Lennox St., Toronto

Bunker, Geo.

363 Parliament St., Toronto

Canadian Gasket Co. Ltd.

Central Ave., Fort Erie North

Canadian Meter Co. Ltd.

90 Caroline St. N., Hamilton

Canadian Terrazzo Metal Strip Co. Ltd.

292 Geary Ave., Toronto

Capital Wire Cloth & Mfg. Co. Ltd.

Hinton Ave., Ottawa

Crown Brass & Spinning Co.

117 St. Patrick St., Toronto

De Long Hook & Eye Co. of Canada, Ltd.

Water St. N., St. Marys

Dodd & Struthers

105 Sandwich St. E., Walkerville

Dominion Lightning Rod Co.

63 Main St., Dundas

Hamilton Brass Co.

124 McNab St. N., Hamilton

Jeune Canopy & Manufacturing Co.

1260 Queen St. W., Toronto

Lauder & Co.

186 Adelaide St. W., Toronto

Metal Textile Corp. of Canada, Ltd.

129 Steven St., Hamilton

Neptune-National Meters Ltd.

345 Sorauren Ave., Toronto

Niagara Wire Weaving Co. Ltd.

Robinson St., Niagara Falls

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1934.
(concluded)

Names of Firms

Location of Plants

(c) Firms engaged Chiefly in making FABRICATED ARTICLES (NOT FOUNDRIES)
(concluded)

ONTARIO - (concluded)

Patterson & Heward	319 King St. W., Toronto
Phillips, B., Co. Ltd.	32 Osborne Ave., Toronto
Phillips, Eugene F., Electrical Works Ltd.	Kingston Road, Brockville
Standard Meter Co. Ltd.	10 Morrow Ave., Toronto
Teeswater Lightning Rod Co.	Teeswater
Tickell, J.G., & Son	525 King St. W., Toronto
Toronto Coppersmithing Co.	1195 Queen St. E., Toronto
Toronto Metal Spinning Co.	32-34 Eastern Ave., Toronto
Toronto Wire Works Co.	942 Queen St. W., Toronto
Universal Lightning Rod Co.	Tannery St., Hespeler
United-Carr Fastener Co. of Canada, Ltd.	Gage Ave. and Beach Road, Hamilton
Westwood Bros.	214 Bathurst St., Toronto
Wilson, J.A., Co. Ltd.	9 Morrison St., Toronto

MANITOBA -

Liberty Fire Extinguisher Co. of Canada,
Ltd.

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