

41-206

Published by Authority of the HON. W. D. EULER, M.P.,
Minister of Trade and Commerce.



CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH

THE
BRASS & COPPER PRODUCTS INDUSTRY
IN
CANADA
1938



OTTAWA
1940

Price 25 cents

Published by Authority of the HON. W. D. EULER, M.P.
Minister of Trade and Commerce

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

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

MANUFACTURES OF THE NON-FERROUS METALS

THE BRASS and COPPER PRODUCTS INDUSTRY, 1938

This report covers the operations of brass foundries and other plants in Canada engaged chiefly in the manufacture of commodities, other than electrical equipment, from brass, bronze or copper. Seventy-six foundries and fifty-one fabricating plants reported under this industry in 1938 and their production was valued at \$27,727,637. In 1937 the corresponding total amounted to \$34,453,160 and in 1936 to \$24,947,467.

Products manufactured during 1938 by firms in this group included ingots, bars, rods, sheets, tubing, and castings of copper, brass, bronze and aluminium, and such further fabricated lines as railway car bearings and fittings, wire cloth of brass and bronze, valves of brass, bronze and iron, plumbing supplies, gas and water meters, fire extinguishers, lightning rods, metal fasteners, automobile 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. The total Canadian production of brass and copper wire and cable, lighting fixtures and valves is recorded in Tables 12 to 14 of this bulletin.

A total of 127 plants was included in this group during 1938, of which 81 were located in Ontario, 29 in Quebec, 9 in British Columbia, 5 in Manitoba and 1 each in Nova Scotia, New Brunswick and Alberta. Ontario's factories accounted for 64.5 per cent of the total production and Quebec's plants for 29.9 per cent.

Capital employed in 1938 was reported at \$22,991,460 of which \$12,568,707 represented the value of lands, buildings and equipment, \$5,542,211 the value of inventories, and \$4,980,542 the total of operating capital.

The number of employees in 1938 was 5,030 compared with 5,094, and salaries and wages aggregated \$6,155,367 as against \$6,310,384 in 1937.

Materials used in manufacturing during the year under review cost \$16,002,647 delivered at the works. Over 86 per cent of this expenditure was for copper ingots and bars, chiefly for rolling into wire rods for the manufacture of electrical wires and cables.

Table 1 - PRINCIPAL STATISTICS, 1933 - 1938

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1933	123	22,167,121	3,395	3,416,823	459,901	7,409,636	13,150,559
1934	125	22,325,567	3,932	4,187,652	523,103	11,177,964	19,309,314
1935	124	21,993,841	4,246	4,649,912	544,147	10,584,600	19,187,022
1936	126	22,890,551	4,596	5,293,457	568,108	14,182,328	24,947,467
1937 -							
Foundries making taps, valves, etc.	14	7,479,000	1,638	1,809,432	133,781	1,117,953	4,521,450
Other brass and bronze foundries ..	62	7,949,068	2,069	2,880,396	350,768	7,477,193	13,453,112
Fabricating plants (not foundries)..	49	8,258,226	1,387	1,620,556	141,412	12,902,949	16,478,598
TOTAL - 1937	125	23,686,294	5,094	6,310,384	625,961	21,498,095	34,453,160
1938 -							
Foundries making taps, valves, etc.	13	7,159,772	1,566	1,838,044	114,582	848,740	3,921,780
Other brass and bronze foundries ..	63	8,689,039	2,268	2,933,077	342,989	5,499,704	11,291,384
Fabricating plants (not foundries)..	51	7,142,649	1,196	1,384,246	120,030	9,654,203	12,514,473
TOTAL - 1938	127	22,991,460	5,030	6,155,367	577,601	16,002,647	27,727,637

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1937 and 1938

Province	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1937</u>							
Quebec	30	7,361,977	1,407	1,773,108	213,729	6,431,763	10,204,954
Ontario	78	14,632,058	3,159	3,981,848	350,210	14,099,139	22,170,620
British Columbia	9	130,196	52	62,150	4,673	61,363	170,227
Nova Scotia	1)						
New Brunswick	1)						
Manitoba	5)	1,562,063	476	493,278	57,349	905,830	1,907,379
Alberta	1)						
CANADA	125	23,686,294	5,094	6,310,384	625,961	21,498,095	34,453,160
<u>1938</u>							
Quebec	29	7,406,370	1,421	1,757,966	195,382	5,016,788	8,287,418
Ontario	81	14,141,438	3,165	3,890,160	329,007	10,374,685	17,885,982
Manitoba	5	498,929	89	130,797	20,586	291,032	569,404
British Columbia	9	149,832	66	93,314	5,290	88,177	236,052
Nova Scotia	1)						
New Brunswick	1)	794,891	289	283,130	27,336	231,965	748,781
Alberta	1)						
CANADA	127	22,991,460	5,030	6,155,367	577,601	16,002,647	27,727,637

Table 3 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1938

	Number of plants	Capital employed	Number of employees	Gross selling value of products at works
		\$		\$
(a) <u>PRODUCTION</u>				
Under \$5,000	16	77,391	29	51,763
\$5,000 to \$10,000	18	142,133	67	139,535
\$10,001 to \$25,000	19	390,547	125	339,804
\$25,001 to \$50,000	28	1,257,184	413	1,371,450
\$50,001 to \$100,000	12	998,859	515	868,420
\$100,001 to \$250,000	16	3,033,708	796	2,752,986
\$250,001 to \$500,000	8	4,968,194	992	3,037,076
\$500,001 to \$1,000,000	6	6,052,221	1,092	3,822,559
Over \$1,000,000	4	6,071,223	1,201	15,344,044
TOTAL	127	22,991,460	5,030	27,727,637

Table 3 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1937
(Concluded)

	Number of plants	Capital employees \$	Number of employees	Gross selling value of products at works \$
(b) NUMBER OF EMPLOYEES				
1 or 2	16	79,104	26	61,425
3 to 10	46	806,655	251	901,767
11 to 20	19	952,754	281	781,991
21 to 50	23	4,660,779	795	11,694,647
51 to 100	9	2,156,797	613	2,128,389
Over 100	14	14,555,371	5,064	12,149,418
TOTAL	127	22,991,460	5,030	27,727,637
(c) CAPITAL EMPLOYED				
Under \$25,000	59	602,119	330	943,798
\$25,000 to \$100,000	50	1,580,816	492	1,346,775
\$100,001 to \$500,000	25	5,476,874	1,474	5,315,764
\$500,001 to \$1,000,000	8	5,973,525	1,088	11,866,050
Over \$1,000,000	5	9,558,126	1,646	8,255,272
TOTAL	127	22,991,460	5,030	27,727,637

Table 4 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1937 and 1938

Province	Present value of lands, buildings, fixtures, machinery and tools \$	Inventory value of materials on hand, stocks in process, fuel, etc., and finished products on hand \$	Operating capital (cash, bills and accounts re- ceivable, pre- paid expenses, etc.) \$	TOTAL CAPITAL EMPLOYED \$
1937				
Quebec	4,841,960	1,289,381	1,230,636	7,361,977
Ontario	7,147,843	3,586,869	3,897,346	14,632,058
British Columbia	71,480	19,616	39,100	130,196
Other provinces	735,368	509,728	316,967	1,562,063
CANADA	12,796,651	5,405,594	5,484,049	23,686,294
1938				
Quebec	4,668,197	1,466,284	1,271,889	7,406,370
Ontario	7,175,964	3,497,859	3,467,615	14,141,438
Manitoba	275,970	142,096	80,863	498,929
British Columbia	81,297	51,572	56,963	149,832
Other provinces	367,279	304,400	123,212	794,891
CANADA	12,568,707	5,442,211	4,980,542	22,991,460

Table 5 - EMPLOYEES, SALARIES and WAGES, BY PROVINCES, 1937 and 1938

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1937								
Quebec	232	49	1,052	94	1,407	568,758	1,204,550	1,773,108
Ontario	500	143	2,338	178	3,159	1,159,073	2,822,775	3,981,848
British Columbia	9	2	41	...	52	16,735	45,415	62,150
Other provinces	80	4	370	22	476	151,442	341,836	493,278
CANADA	821	198	3,781	294	5,094	1,896,008	4,414,376	6,310,384
1938								
Quebec	251	56	1,048	67	1,421	610,208	1,147,758	1,757,966
Ontario	582	153	2,260	170	3,165	1,343,549	2,546,611	3,890,160
Manitoba	25	-	64	-	89	69,638	61,159	130,797
British Columbia	9	2	55	-	66	22,581	70,733	93,314
Other provinces	57	4	215	13	289	94,509	188,621	283,130
CANADA	924	215	3,642	250	5,030	2,140,485	4,014,882	6,155,367

Table 6 - WAGE-EARNERS, BY MONTHS, 1937 and 1938. (on the last day of each month or nearest work day)

Month	1 9 3 7			1 9 3 8		
	Male	Female	TOTAL	Male	Female	TOTAL
January	3,515	272	3,787	3,638	233	3,871
February	3,725	282	4,007	3,620	236	3,856
March	3,807	296	4,103	3,634	245	3,879
April	3,943	302	4,245	3,579	252	3,831
May	3,929	305	4,234	3,667	244	3,911
June	3,920	303	4,223	3,655	247	3,902
July	3,853	295	4,148	3,635	238	3,873
August	3,915	299	4,214	3,645	262	3,907
September	3,895	290	4,185	3,608	277	3,885
October	3,797	277	4,074	3,660	267	3,927
November	3,764	267	4,031	3,740	264	4,004
December	3,622	266	3,888	3,632	246	3,878
AVERAGE	3,781	294	4,075	3,642	250	3,892

Table 7 - FUEL AND ELECTRICITY USED, 1937 and 1938

Kind	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	short ton	5,718	\$ 33,771	6,149	\$ 37,533
Imported	short ton	11,526	64,757	10,518	61,940
Anthracite coal	short ton	1,571	15,255	1,105	12,951
Coke	short ton	4,567	42,731	4,084	36,646
Gasoline	Imp. gal.	7,266	1,516	12,018	2,457
Kerosene	Imp. gal.	655	127	1,146	211
Fuel oil	Imp. gal.	1,709,252	133,205	1,486,139	113,805
Wood	cord	387	2,474	298	1,638
Gas - Manufactured	M cu. ft.	21,648	16,220	24,683	17,739
Natural	M cu. ft.	23,757	9,303	25,549	10,828
Other fuel .....	\$	...	9,484	-	9,398
Electricity purchased	K. W. H.	30,179,276	297,118	25,089,836	272,455
TOTAL .....	\$	...	625,961	-	577,601
Electricity generated for own use	K. W. H.	54,300	...	-	-

Table 8 - POWER EQUIPMENT, 1937 and 1938

Kind	1 9 3 7		1 9 3 8	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	8	1,295	8	1,295
Gasoline, gas and oil engines	2	83	1	75
Hydraulic turbines or water wheels	1	25	1	25
Total Primary Equipment	11	1,403	10	1,395
Electric motors run by purchased power	1,584	24,596	1,665	24,567
TOTAL	1,595	25,999	1,675	25,962
Electric motors run by power generated by above primary units	27	358	27	358
Stationary boilers	35	3,154	39	3,329

Table 9 - POWER EQUIPMENT, showing - ORDINARILY IN USE - separately from - IN RESERVE OR IDLE - 1938

Kind	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	6	1,145	2	150
Gasoline, gas and oil engines	1	75	-	-
Hydraulic turbines or water wheels	1	25	-	-
Total Primary Equipment	8	1,245	2	150
Electric motors run by purchased power	1,643	24,385	22	182
TOTAL	1,651	25,630	24	332
Electric motors run by primary power	27	358	-	-
Stationary boilers	36	3,209	3	120

Table 10 - MATERIALS USED, 1957 and 1958

Table 10 - MATERIALS USED, 1957 and 1958					
Materials	Unit of measure	1 9 5 7		1 9 5 8	
		Quantity	Cost at works	Quantity	Cost at works
Aluminium -					
Ingots	lb.	329,988	56,850	252,024	39,429
Scrap	lb.	1,908,754	277,758	1,685,413	211,566
Sheets	lb.	51,245	15,931	51,951	10,259
Castings	lb.	11,426	2,858)	52,981	16,258
Other	lb.	121,602	41,430)		
Brass -					
Ingots	lb.	1,675,016	181,513	2,145,196	190,689
Scrap	lb.	6,987,675	696,788	4,979,991	405,940
Bars and rods	lb.	807,812	150,739	703,624	121,546
Plates, sheets and strip	lb.	359,236	73,505	397,553	68,797
Pipe and tubing	lb.	435,366	98,216	460,634	99,529
Wire	lb.	824,810	196,354	523,139	135,777
Castings	lb.	205,312	49,758	189,018	45,141
Other	lb.	586,571	120,154	679,850	122,891
Bronze -					
Ingots	lb.	1,863,934	180,793	1,006,388	72,544
Scrap	lb.	13,554,153	1,562,553	10,852,696	869,088
Bars and rods	lb.	35,452	9,537	50,615	9,227
Plates, sheets and strip	lb.	57,372	10,538	53,259	15,950
Pipe and tubing	lb.	2,824	1,094	-	-
Wire	lb.	770,459	298,488	472,314	179,417
Castings	lb.	249,652	64,204	46,200	18,827
Other	lb.	50,697	5,728	26,437	7,533
Copper -					
Ingots, wire bars, cakes, slabs, etc. ...	lb.	110,573,509	14,070,781	101,588,470	10,646,817
Scrap	lb.	4,864,385	596,340	3,929,241	384,506
Pipe and tubing	lb.	98,254	39,385	87,904	18,642
Plates, sheets and strip	lb.	889,449	185,177	773,770	144,696
Wire	lb.	323,266	49,603	237,858	39,352
Castings	lb.	5,324	1,124)		
Other	lb.	110,107	23,073)	34,087	7,926
Lead -					
Pig	lb.	804,379	49,010	712,315	33,208
Scrap	lb.	286,019	14,919	442,719	17,107
Other	lb.	20,360	4,735	25,653	5,280
Nickel	lb.	222,737	67,182	220,437	73,957
Tin -					
Ingots	lb.	384,685	219,759	269,050	124,786
Scrap	lb.	7,540	3,126	11,736	3,879
Other	lb.	2,774	1,337	13,225	6,880
Zinc -					
Ingots and slabs	lb.	5,938,523	341,258	4,540,598	207,529
Scrap	lb.	71,137	4,083	47,632	2,004
Other	lb.	271,312	35,333	286,395	32,689
Other non-ferrous metals	lb.	1,781,576	210,554	1,314,640	145,410
Iron and steel -					
Pig iron	long ton	1,580	40,164	1,350	33,595
Castings, iron	short ton	351	36,811	261	34,685
Castings, steel	short ton	90	44,777	124	39,336
Bars and rods, steel	short ton	296	39,763	334	36,708
Wire, steel	short ton	440	73,440	421	68,171
Sheets, steel	short ton	416	44,680	247	46,690
Scrap iron and steel	short ton	1,750	23,331	1,425	17,422
Other iron and steel	short ton	471	79,701	375	56,797
Lumber	M bd. ft.	364	16,075	308	16,343
Foundry facings	lb.	254,631	8,599	215,841	6,567
Moulding sands	lb.	9,992,068	23,105	10,527,249	19,371
Plating and polishing supplies .....	\$	...	11,425	-	-
Containers and packing materials .....	\$	...	35,724	-	45,461
All other materials .....	\$	...	1,028,952	-	1,048,485
TOTAL .....	\$	...	21,498,095	-	16,002,647

Table 11 - PRODUCTS MADE, 1937 and 1938

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 7		1 9 3 8	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
Aluminium -					
Castings (1)	lb.	1,229,562	584,696	827,027	269,946
Other, including ingots, etc. (1) .....		...	40,086	-	11,755
Brass -					
Castings, not elsewhere specified (1)	lb.	3,103,355	723,544	2,430,676	540,434
Ingots (1)	lb.	2,318,468	263,613	1,402,638	120,814
Scrap (1)	lb.	817,937	56,889	268,981	22,258
Other, including bars, rods, sheets, plates and tubing, each of which was reported by only one or two concerns	lb.	17,873,597	3,636,151	12,326,555	2,162,905
Bronze -					
Castings, not elsewhere specified (1)	lb.	1,753,560	460,493	1,402,767	364,358
Scrap (1)	lb.	59,980	3,440	65,953	3,805
Other, including sheets, plates, ingots, bars, rods, tubing, each of which was reported by only one or two concerns	lb.	2,466,291	411,991	2,274,573	552,072
Copper -					
Castings (1)	lb.	71,765	18,780	30,726	9,240
Scrap (1)	lb.	1,673,126	198,040	993,363	129,827
Ingots, bars, wire rods, plates, sheets, pipe, tubing, etc.	lb.	94,795,892	13,759,526	91,246,567	11,230,598
Architectural work, brass and bronze (1) .....	\$	...	62,064	-	84,849
Architectural work, iron (1) .....	\$	...	30,837	-	51,791
Bells and gongs .....	\$	...	16,850	-	13,293
Brass and copper hollowware and spinings .....	\$	...	54,467	-	78,390
Castings, iron (1)	lb.	4,242,463	192,599	2,198,519	148,711
Fire extinguishers (1) .....	\$	...	195,646	-	207,186
Hardware, builders' (1) .....	\$	...	73,967	-	83,877
Lighting fixtures (1) .....	\$	...	110,915	-	85,971
Lighting rods and supplies .....	\$	...	77,331	-	81,515
Meters, gas and water, and parts .....	\$	...	599,650	-	416,754
Plumbers' brass fittings -					
Tub fillers and showers .....	\$	...	128,874	-	150,719
Taps, drains and tubular fittings .....	\$	...	340,252	-	270,697
Stops, and stop and drains .....	\$	...	147,785	-	167,225
Sink faucets .....	\$	...	159,402	-	176,084
Lavatory and bath faucets .....	\$	...	199,170	-	178,541
Closet tank fittings .....	\$	...	61,357	-	64,178
Any other plumbers' fittings .....	\$	...	630,139	-	735,048
Steam boiler trimmings, including gauge cocks, and water gauge mountings .....	\$	...	66,983	-	82,220
Railway car bearings and fittings .....	\$	...	3,094,461	-	2,241,511
Valves, iron body (1)	No.	34,790	520,495	31,183	348,589
Valves, other, including radiator valves and traps (1) .....	\$	...	1,366,599	-	1,138,571
Wire cloth, brass and bronze and monel	Sq.ft.	2,963,571	1,461,322	2,105,816	1,008,555
Received for custom work and repairs .....	\$	...	432,197	-	364,268
All other products (x) .....	\$	...	4,596,995	-	4,127,882
TOTAL .....	\$	...	34,453,160	-	27,727,637

(x) Includes products made by less than 5 firms in this group, such as bronze and aluminium powders, stampings, furniture trimmings, nickel-silver plates and sheets, metal fasteners, pins, etc.

Table 12 - TOTAL PRODUCTION IN CANADA OF BRASS AND COPPER WIRE AND CABLE, 1937 and 1938. (FROM ALL INDUSTRIES)

Kind	Selling value at works	
	1 9 3 6	1 9 3 7
Copper wire, bare	2,431,638	2,094,475
Weatherproof	1,582,800	1,416,084
Rubber insulated, braided	2,815,097	2,551,706
Cambric insulated, braided	143,896	105,895
Rubber insulated, leaded	348,877	113,205
Cambric insulated, leaded	485,064	118,011
Paper insulated, leaded	535,461	615,595
Telephone cable of all kinds	1,027,827	1,294,445
Armoured cable	793,217	721,645
Flexible cords, except telephone and switchboard	1,073,069	900,195
All other copper wire and cable	2,606,770	2,686,654
TOTAL BRASS and COPPER WIRE AND CABLE	14,823,516	12,417,886

Table 13 - TOTAL PRODUCTION IN CANADA OF ELECTRIC LIGHTING FIXTURES, 1936 to 1938. (FROM ALL INDUSTRIES)

	Selling value at works		
	1 9 3 6	1 9 3 7	1 9 3 8
Interior lighting fixtures, residential	909,237	1,120,958	680,465
Interior lighting fixtures, metal reflectors	120,673	190,774	129,327
All other interior lighting fixtures	182,625	285,520	299,508
Exterior lighting standards	27,085	12,348	23,497
Exterior lighting fixtures	227,114	108,452	142,008
Exterior lighting control devices	15,929	2,034	2,171
Searchlights and floodlights	17,608	50,399	68,900
All other lighting equipment	349,926	355,914	353,755
TOTAL LIGHTING FIXTURES	1,850,195	2,084,399	1,699,429

Table 14 - TOTAL PRODUCTION IN CANADA OF BRASS AND IRON VALVES, 1937 and 1938. (FROM ALL INDUSTRIES)

	1 9 3 7		1 9 3 8	
	Number	Selling value at works	Number	Selling value at works
Valves, iron and steel	124,094	836,030	135,072	827,960
Quantity given ...	...	3,256	-	10,678
Quantity not given	...	839,286	-	838,638
TOTAL .....	...	839,286	-	838,638
Valves, all other, including radiator valves and traps	582,154	1,214,017	484,215	1,129,756
Quantity given ...	...	484,465	-	212,647
Quantity not given	...	1,698,482	-	1,342,403
TOTAL .....	...	1,698,482	-	1,342,403

Table 15 - IMPORTS INTO CANADA OF BRASS AND COPPER AND THEIR PRODUCTS, 1937 and 1938

		1 9 3 7		1 9 3 8	
		Quantity	Value	Quantity	Value
<u>BRASS AND ITS PRODUCTS</u>			\$		\$
Brass in blocks, ingots or pigs	cwt.	819	11,646	642	7,221
Brass, scrap	cwt.	1,403	14,448	574	5,700
Brass caps, adapted for use in the manufacture of electric batteries .....	\$	...	17,957	-	16,833
Brass cups, being rough blanks, for the manufacture of paper shells or cartridges .....	\$	...	60,518	-	45,661
Brass in bars and rods, in coils or otherwise, not less than 6 feet in length	cwt.	5,110	89,705	3,205	50,342
Brass in strips, sheets or plates, not polished, planished or coated	cwt.	3,123	76,967	2,335	51,221
Brass tubing, not polished, bent or otherwise manufactured in lengths not less than 6 feet	lb.	663,467	219,413	402,055	105,313
Carburetors of brass .....	\$	...	148	-	-
Coin locks .....	\$	...	644	-	276
Pumps, hand, brass, n.o.p. ....	\$	...	3,167	-	1,767
Valves, brass .....	\$	...	404,103	-	286,085
Water meters and parts, n.o.p.	no.	912	16,632	577	14,953
Wire, brass, n.o.p.	lb.	357,177	99,174	138,224	37,794
Wire cloth, or woven wire of brass, n.o.p. ....	\$	...	32,985	-	24,696
Manufactures of brass, n.o.p. ....	\$	...	2,386,963	-	1,905,472
TOTAL BRASS AND ITS PRODUCTS .....	\$	...	3,436,468	-	2,552,964

Table 15 - IMPORTS INTO CANADA OF BRASS AND COPPER AND THEIR PRODUCTS, 1937 and 1938 - (Concluded)

	1937		1938	
	Quantity	Value	Quantity	Value
<u>COPPER AND ITS PRODUCTS</u>				
Copper, precipitate of, crude	lb.	246	33	2,075
Copper, in blocks, pigs or ingots	cwt.	155	1,941	122
Copper, scrap; cathode plates of electrolytic copper for melting	cwt.	46	455	878
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.	10,562	159,353	11,165
Copper in bars or rods, in lengths of not less than 6 feet, unmanufactured	cwt.	3,335	61,180	2,006
Copper in strips, sheets or plates, not polished, planished or coated	cwt.	7,073	155,463	1,662
Copper tubing, in lengths of not less than 6 feet, and not polished, bent or otherwise manufactured	lb.	675,896	193,637	343,071
Copper rollers adapted for use in the printing of textile fabrics or wallpaper .....	\$	...	124,315	-
Copper wire, n.o.p.	lb.	37,576	6,831	16,352
Copper wire or cloth or woven wire of copper .....	\$	...	7,523	-
Copper, manufactures of, n.o.p. ....	\$	...	536,135	-
TOTAL COPPER AND ITS PRODUCTS .....	\$	...	1,246,866	-
				793,693

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1938

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 BRASS VALVES, TAPS, PLUMBERS' SUPPLIES, ETC.

NEW BRUNSWICK -

McAvity & Sons, T., Ltd.

Rothsay Avenue, Saint John

QUEBEC -

Cuthbert, W. R., & Co.

55 Duke Street, Montreal

Golden Gate Mfg. Co. Ltd.

361 Youville Street, Montreal

Jenkins Bros. Ltd.

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

Robertson, James, Co. Ltd.

946 William Street, Montreal

ONTARIO -

Canadian Brass Co. Ltd.

415 Dundas Street, Galt

Empire Brass Mfg. Co. Ltd.

Dundas Street East, London

Galt Brass Co. Ltd.

471 Dundas Street, Galt

Morrison, James, Brass Mfg. Co. Ltd.

276 King Street West, Toronto

Mueller Ltd.

Clifford Street, Sarnia

Penberthy Injector Co. Ltd.

159 Windsor Avenue, Windsor

Wallaceburg Brass Ltd.

Wallaceburg

Wolverine Limited

76 Nelson Street, Toronto

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1958 (Continued)

Names of Firms

Location of Plants

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

NOVA SCOTIA -

Collings, Wm., & Sons, Ltd.

711 Barrington Street, Halifax

QUEBEC -

Archambault Brass Foundry
Bouliane Brass Foundry
Canadian Bronze Powder Works Ltd.
Clark, C. O., & Bro.
Eastern Brass Foundry, Limited
Empire Brass Foundry Limited
Excel Brass & Aluminum Works
Hazel, James, & Son
Miller's Brass Foundry, Reg'd.
Mitchell, Robert, Co. Ltd.

8010 Henri Julien Street, Montreal
2020 Labreque Street, Montreal
Valleyfield
5010 St. Patrick Street, Montreal
514 Harbour Street, Montreal
127 Nazareth Street, Montreal
117 Nazareth Street, Montreal
150 Mgr. Gauvreau Street, Quebec
791 Hertel Street, Three Rivers
750 Belair Avenue, Montreal and 102 Monkland Blvd.,
St. Laurent
999 Delorimier Avenue, Montreal
72 Main Street, Lennoxville
910 Cartier Street, Montreal

Montreal Bronze Limited
Union Screen Plate Co. of Canada, Ltd.
Vandevoorde Foundry

ONTARIO -

Anaconda American Brass Limited
Atkins & Hoyle
Balfour's Brass Foundry
Barber Die Castings Ltd.
Canadian Bell Foundry
Canadian Brass & Machine Works
Chadwick-Carroll Brass & Fixtures Limited
Central Brass Foundry
Coulter Copper & Brass Co. Ltd.
Dempsey, Chas. W.
Dominion Gas Meter Co. Ltd.
Elmira Aluminium Specialties
Fisher & Son
Kilby, Wm.
Kitchener Brass & Aluminium Foundry
Kondou Manufacturing Co. Ltd.
Lawrence, T. C., & Son
May Foundry Co.
McKay Smelters
National Brass & Aluminum Foundry
Ottawa Car Mfg. Co. Ltd.
Petrie Brass Company
Precision Dies & Castings Limited
Quality Brass Foundry
Queen City Brass Foundry
St. Catharines Brass Works, Ltd.
St. Thomas Bronze Co. Ltd.
Sherratt, W., & Son
Standard Brass Foundry
Stratford Brass Co. Ltd.
Sully Brass Foundry Ltd.
Tallman, A. H., Bronze Co. Ltd.
Toronto Brass Machine & Foundry Ltd.
Wilson & Cousins Ltd.
Windsor Brass Works Ltd.
Zenith Alloys Co.

8th and Birmingham Streets, New Toronto
69 Portland Street, Toronto
65 Frederick Street, Toronto
68 Sanford Avenue, Hamilton
34 Lancaster Street, Kitchener
20 Hamilton Avenue, Ottawa
365 Wilson Street, Hamilton
48 Abell Street, Toronto
115 Sumach Street, Toronto
17 Division Street, Guelph
328 Wortley Road, London
Elmira
366 Wilson Street, Hamilton
560 East Street, Orillia
983 King Street East, Kitchener
South Street, Preston
512 Dundas Road, Galt
2018 Buchanan Avenue, Niagara Falls
25 McKay Street, Ottawa
117 St. Patrick Street, Toronto
301 Slater Street, Ottawa
163 Sterling Road, Toronto
282 St. Helens Avenue, Toronto
10 Millstone Lane, Toronto
28 Dalhousie Street, Toronto
62 George Street, St. Catharines
First Avenue, St. Thomas
6 Britain Street, Toronto
561 Catharine Street North, Hamilton
342 Erie Street, Stratford
11 Wabash Avenue, Toronto
Cavell Avenue, Hamilton
78 Market Street, Toronto
35 McCaul Street, Toronto
408 Hanna Street East, Windsor
Dundas Street, Brantford

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1938 (Continued)

Names of Firms

Location of Plants

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

MANITOBA -

Acme Brass Foundry	576 Minto Street, Winnipeg
Northwestern Brass Ltd.	13 Bury Street, Winnipeg
Western Canada Bronze Co.	595 Clifton Street, Winnipeg
Winnipeg Brass Limited	600 Clifton Street, Winnipeg

ALBERTA -

Northwestern Brass Ltd.	1609 - 24th Avenue East, Calgary
-------------------------	----------------------------------

BRITISH COLUMBIA -

Hastings Brass Foundry	236 Clark Drive, Vancouver
McPhail, Wm., & Sons (Canada) Ltd.	251 Second Avenue East, Vancouver
Ornamental Bronze Company, Ltd.	1125 Vernon Drive, Vancouver
Service Foundry	237 Industrial Avenue, Vancouver
Smith Bros. Foundry Limited	632 Pembroke Street, Victoria
Star Foundry Limited	194 West Third Avenue, Vancouver
Sumner Brass Foundry Limited	619 Bidwell Street, Vancouver
Wilson's Brass Foundry	22 Second Avenue East, Vancouver

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

QUEBEC -

Blanchard Refrigeration Service	300 Youville Square, Montreal
Booth-Coulter Coppersmithing Co. Ltd.	997 Wellington Street, Montreal
Brehn, Chas. G.	756 St. Paul Street West, Montreal
Brass & Bronze Mfg. Co. Ltd.	269 Craig Street West, Montreal
Canada Wire & Cable Co. Ltd.	Montreal East
Cassidy and Maillard Limited	1575 Craig Street East, Montreal
Christie, George, (Canada) Ltd.	2106 Bellefeuille Street, Three Rivers
Edwards, O. M., Co. of Canada, Ltd.	5010 St. Patrick Street, Montreal
Imperial Pin Co. Ltd.	2210 Parthenais Street, Montreal
Johnson Wire Works Ltd.	4760 Dagenais Street, Montreal
Metalcraft Mfg. Co.	915 St. Alexander Street, Montreal
Whitehouse, A. E.	976 St. George Street, Montreal

ONTARIO -

Air Coils Ltd.	Colborne Street, Oakville
Alcor Co.	220 King Street West, Toronto
Booth, W. E., Co. Ltd.	12 Mercer Street, Toronto
Breen, S. V.	20 Lennox Street, Toronto
Brock Machinists & Welders,	Brock Street, Brockville
Bryden Brass Mfg. Co.	35 Collier Street, Toronto
Bunker, Geo.	363 Parliament Street, Toronto
Canadian Meter Co. Ltd.	90 Caroline Street North, Hamilton
Canadian Terrazzo Metal Strip Co. Ltd.	292 Geary Avenue, Toronto
Capital Wire Cloth & Mfg. Co. Ltd.	Hinton Avenue, Ottawa
Crown Brass & Spinning Co.	117 St. Patrick Street, Toronto
De Long Hook & Eye Co. of Canada, Ltd.	Water Street North, St. Mary's
Dodd & Struthers	2043 Sandwich Street East, Walkerville
Dominion Brass Products Ltd.	65 Saulter Street, Toronto
Dominion Lightning Rod Co.	63 Main Street, Dundas
Flash Fasteners of Canada Ltd.	251 Spadina Avenue, Toronto
Hahn Brass Co. Ltd.	New Hamburg
Jamieson Co. Ltd.	9 Morrison Street, Toronto
Jeune Canopy & Mfg. Co. Ltd.	1260 Queen Street West, Toronto
Johnston Copper & Brass	142 Davenport Road, Toronto
Metal Textile Corp. of Canada, Ltd.	126 Catharine Street North, Hamilton
Monarch Brass Mfg. Co. Ltd.	71 Browns Avenue, Toronto
Neptune Meters Ltd.	345 Soraburen Avenue, Toronto
Niagara Wire Weaving Co. Ltd.	Robinson Street, Niagara Falls
Ottawa Brass Mfg. Co.	542 Wellington Street, Ottawa
Patterson & Heward	319 King Street West, Toronto

DIRECTORY OF FIRMS INCLUDED IN THE BRASS AND COPPER PRODUCTS INDUSTRY IN CANADA, 1938 (Concluded)

Names of Firms

Location of Plants

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

ONTARIO - Concluded

Phillips, B., Co. Ltd.	32 Osborne Avenue, Toronto
Phillips Electrical Works Ltd.	King Street West, Brockville
Pyrene Mfg. Co. of Canada Ltd.	91 Don Roadway, Toronto
Riverdale Copper & Brass Co.	160 Duchess Street, Toronto
Standard Meter Co. Ltd.	10 Morrow Avenue, Toronto
Tools and Hardware Ltd.	112 Peter Street South, Orillia
Toronto Coppersmithing Co.	26 Knox Avenue, Toronto
Toronto Metal Spinning Co.	32 Eastern Avenue, Toronto
Toronto Wire Works Co.	942 Queen Street East, Toronto
Universal Lightning Rod Co.	Tannery Street, Hespeler
United-Carr Fastener Co. of Canada, Ltd.	Gage Avenue and Beach Road, Hamilton

MANITOBA -

Prairie Industries Ltd.	Wawanesa
-------------------------	----------

BRITISH COLUMBIA -

Ellett Copper & Brass Co. Ltd.	92 West 2nd Avenue, Vancouver
--------------------------------	-------------------------------

A P P E N D I X

PRODUCTION OF BRASS AND BRONZE IN OTHER INDUSTRIES

In addition to the companies which operated brass foundries as their chief business, there was quite a number of iron foundries and white metal alloy foundries which made brass and bronze castings as minor products. The names and addresses of these latter companies are listed below in order to provide a complete directory of brass foundries in Canada. Their production of brass and bronze ingots, castings, valves, etc. in 1937 and 1938 was as follows -

	1 9 3 7		1 9 3 8(x)	
	Pounds	Selling value at works \$	Pounds	Selling value at works \$
In iron foundries - Brass castings	474,915	109,183	375,133	89,886
Bronze castings	409,912	106,581	210,041	59,660
Brass and bronze valves	-	331,883	-	203,832
Brass and bronze pipe fittings and plumbers' supplies	-	494,210	-	317,464
In white metal alloy foundries - Brass and bronze castings	1,445,580	194,314	318,678	83,116
Brass and bronze bars and ingots	3,490,953	454,526	2,902,272	204,505

(x) Preliminary data - subject to revision.

LIST OF BRASS AND BRONZE FOUNDRIES IN OTHER INDUSTRIES, 1938

NOTE - For a complete list of brass foundries in Canada include the names listed below along with those given in Sections (a) and (b) of Directory beginning on Page 8 of this report.

Name of Firm

Location of Plant

(a) Iron Foundry Industry

PRINCE EDWARD ISLAND -

Bruce Stewart & Co. Ltd.

Charlottetown

NOVA SCOTIA -

Cook, H. S. & Co.

Yarmouth

Fleming Brothers

1595 Barrington Street, Halifax

Lunenburg Foundry Co. Ltd.

Lunenburg

Matheson, I., & Co. Ltd.

New Glasgow

Sydney Foundry & Machine Works Ltd.

Sydney

Thompson Bros. Machinery Co. Ltd.

Liverpool

NEW BRUNSWICK -

Courtenay Iron-Brass Foundry

Rothersey Avenue, Saint John

Abram's, John, Sons Ltd.

62 Foundry Street, Moncton

McLennan Foundry & Machine Works Ltd.

Campbellton

Phoenix Foundry Co.

126 Pond Street, Saint John

Saint John Iron Works Ltd.

Saint John

Wallace Mfg. Co. Ltd.

Winter Street, Sussex

QUEBEC -

Ateliers Mecaniques de Sorel Ltee

1405 Peel Street, Montreal

Bergeron, J. E.

La Tuque

Crane Ltd.

3800 St. Patrick Street, Montreal

La Compagnie F. X. Drolet

206 rue du Pont, Quebec

La Fonderie de Joliette Ltée

2 Alice Street, Joliette

La Fonderie de Ste-Croix Ltée

Ste. Croix

La Fonderie de Thetford Ltée

796 Notre Dame Street, Thetford Mines

McQuat, T., & Son

Lachute Mills

Montreal Foundry Ltd.

1249 Conde Street, Montreal

Quebec Brass & Iron Foundry Ltd.

58 Commercial Street, Levis

Shawinigan Foundries Ltd.

Shawinigan Falls

Walford, H., Ltd.

Sorel

ONTARIO -

Algoma Steel Corporation Ltd.

Sault Ste. Marie

Beaver Foundry and Furnace Works

Harvey Street, Tillsonburg

Bishop, T. G., Engineering Co.

King and Queen Streets, Kingston

Bowmanville Foundry Co. Ltd.

Bowmanville

Canada Valve and Hydrant Co. Ltd.

Brantford

Canadian Blower and Forge Co. Ltd.

Woodside Avenue, Kitchener

Callander Foundry & Mfg. Co. Ltd.

54 Crimea Street, Guelph

Cornwall Brass & Iron Foundries

Cornwall

Cunningham & Son

Berryman Avenue, St. Catharines

Eureka Planter Co. Ltd.

Winnett Street, Woodstock

Fruit Machinery Co. Ltd.

368 Front Street, Belleville

Galt Malleable Iron Co. Ltd.

Galt

Goderich Iron and Brass Foundry

Victoria Street, Goderich

Hastings & Sons Foundry

Stratford

Hepburn, John T., Ltd.

18 Van Horne Street, Toronto

Lawson, Thos., & Sons Ltd.

376 Wellington Street, Ottawa

McCrae, John, Machine & Foundry Co.

83 William Street North, Lindsay

Muskoka Foundry Limited

Bracebridge

Northern Foundry & Machine Co. Ltd.

Sault Ste. Marie

Ontario Malleable Iron Co. Ltd.

Oshawa

Port Hope Sanitary Mfg. Co. Ltd.

Port Hope

Standard Sanitaryware Mfg. Co. Ltd.

1000 Lansdowne Avenue, Toronto

Tweed Foundries Ltd.

Tweed

LIST OF BRASS AND BRONZE FOUNDRIES IN OTHER INDUSTRIES, 1938 (Concluded)

<u>Name of Firm</u>	<u>Location of Plant</u>
(a) <u>Iron Foundry Industry (Concluded)</u>	
<u>ONTARIO - (Concluded)</u>	
Victoria Foundry Co.	44 Booth Street, Ottawa
Wabi Iron Works	New Liskeard
Warp Tension Governors Ltd.	Cornwall
Welland Iron & Brass Co.	102 Niagara Street, Welland
West's Company	Simcoe
Woodside Brothers	Port Arthur
<u>MANITOBA -</u>	
Vulcan Iron Works Ltd.	Pt. Douglas Avenue, Winnipeg
Winnipeg Foundry Co. Ltd.	115 Robinson Street, Winnipeg
<u>SASKATCHEWAN -</u>	
Blanchard Foundry & Machine Ltd.	104 - 22nd Street, Saskatoon
East, John, Iron Works Ltd.	121 Avenue C, North, Saskatoon
Moose Jaw Foundry	6th and High Street West, Moose Jaw
Prince Albert Foundry Co.	17th Street and Central Avenue, Prince Albert
Springstein & Davidson Machine Shop	6th Avenue and Lorne Street, Regina
<u>ALBERTA -</u>	
Alberta Foundry & Machine Co. Ltd.	Smelter Avenue, Medicine Hat
Calgary Iron Works Ltd.	410 Ninth Avenue East, Calgary
Garvie Bolton & Co.	10334 - 108th Street, Edmonton
Nichols Bros. Ltd.	10103 - 95th Street, Edmonton
Norwood Foundry Co. Ltd.	9111 - 111th Avenue, Edmonton
Standard Iron Works Ltd.	21st Street and 106th Avenue, Edmonton
<u>BRITISH COLUMBIA -</u>	
A-1 Aluminium Foundry Ltd.	36 West 3rd Avenue, Vancouver
Letson & Burpee Ltd.	172 Alexander Street, Vancouver
Nanaimo Foundry	Comox Road, Nanaimo
New Westminster Foundry Co. Ltd.	Braid Street, New Westminster
Ramsay & Adams Foundry Co. Ltd.	435 Garbally Road, Victoria
Progressive Mfg. Co.	852 Hastings Street, Vancouver
Victoria Machinery Depot Co. Ltd.	343 Bay Street, Victoria
Victoria Brass & Iron Works Ltd.	620 Pioneer Street, Esquimalt
Cook & Sons Foundry	266 East Second Avenue, Vancouver
(b) <u>White Metal Alloys Industry</u>	
Liberty Smelting Works	269 Prince Street, Montreal, P.Q.
Canada Metal Co. Ltd. and Hoyt Metal Co. of Canada	721 Eastern Avenue, Toronto, Ont.
Metals & Alloys Ltd.	1 Wiltshire Avenue, Toronto, Ont.
Rahn Metals Ltd.	North Bay

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010655562