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ANNUAL INDUSTRY REPORTMANUFACTURES OF THE NON-FERROUS METALSTHE BRASS AND COPPER PRODUCTS INDUSTRY, 1941

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. Eighty-seven foundries and fifty-six fabricating plants reported under this industry in 1941 and their production was valued at \$100,588,991. In 1940 the corresponding total amounted to \$57,238,558 and in 1939 to \$32,111,912.

Products manufactured during 1941 by firms in this group included ingots, bars, rods, plates, sheets, discs, cups, tubing, and such further fabricated lines as wire cloth, valves, cartridge cases, kettles and tanks, 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.

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 same were included in the industries of major importance. It is believed that there are in Canada about 325 brass foundries in all.

A total of 143 plants was included in this group during 1941, of which 89 were located in Ontario, 36 in Quebec, 11 in British Columbia, 5 in Manitoba and 1 each in New Brunswick and Alberta. Ontario's factories accounted for 59 per cent of the total production and Quebec's plants for 38 per cent.

Capital employed in 1941 was reported at \$57,892,897, of which \$23,874,900 represented the value of land, buildings and equipment, \$17,487,054 the value of inventories, and \$16,530,943 the total operating capital.

The number of employees in 1941 was 13,190 compared with 7,354 and salaries and wages aggregated \$19,560,353 as against \$10,371,575 in 1940.

Publication of detailed statistics of materials used, products made, imports and exports has been discontinued for the duration of the war.

Table 1 - PRINCIPAL STATISTICS, 1938-1941

Year	Number of plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing value of products at works \$
<u>1 9 3 8</u>							
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
<u>1 9 3 9</u>							
Foundries making taps, valves, etc.	14	7,902,637	1,510	2,093,679	129,725	1,219,642	4,678,900
Other brass and bronze foundries ..	63	9,452,674	2,151	3,031,128	354,765	6,770,011	12,939,038
Fabricating plants (not foundries).	52	7,750,267	1,356	1,581,233	132,745	10,971,475	14,433,374
TOTAL - 1939	129	25,105,578	5,217	6,706,040	617,235	18,961,128	32,111,912
<u>1 9 4 0</u>							
Foundries making taps, valves, etc.	13	8,961,779	2,294	2,949,492	177,804	2,040,290	7,124,507
Other brass and bronze foundries ..	69	15,702,257	3,686	5,640,209	626,882	14,992,042	27,195,485
Fabricating plants (not foundries).	50	8,266,508	1,374	1,781,874	99,977	18,164,587	22,918,566
TOTAL - 1940	132	32,930,544	7,354	10,371,575	904,663	35,196,919	57,238,558
<u>1 9 4 1</u>							
Foundries making taps, valves, etc.	14	9,964,671	3,136	4,313,321	228,354	4,165,557	11,698,026
Other brass and bronze foundries ..	73	27,415,501	6,459	10,092,053	1,000,749	29,106,146	52,156,355
Fabricating plants (not foundries).	56	20,512,725	3,595	5,154,979	486,004	26,138,156	36,734,610
TOTAL - 1941	143	57,892,897	13,190	19,560,353	1,715,107	59,409,859	100,588,991

NOTE: Above 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 were not required for the brass foundry divisions.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1940 and 1941

Province	Number of plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing value of products at works \$
<u>1 9 4 0</u>							
Quebec	32	9,846,452	1,966	2,626,312	245,020	12,680,020	18,492,970
Ontario	82	21,392,512	4,768	7,031,333	589,491	21,731,772	36,535,566
British Columbia ..	11	212,192	86	131,071	7,555	112,215	347,549
Manitoba	5)						
New Brunswick	1)	1,479,388	534	582,859	62,597	672,912	1,862,473
Alberta	1)						
CANADA ...	132	32,930,544	7,354	10,371,575	904,663	35,196,919	57,238,558
<u>1 9 4 1</u>							
Quebec	36	23,159,454	4,710	6,947,327	748,569	23,783,386	38,651,457
Ontario	89	32,512,711	7,693	11,611,866	888,777	34,343,772	58,868,770
British Columbia ..	11	326,228	141	243,900	10,689	254,359	645,617
Manitoba	5)						
New Brunswick	1)	1,894,504	646	757,260	67,072	1,028,342	2,423,147
Alberta	1)						
CANADA ...	143	57,892,897	13,190	19,560,353	1,715,107	59,409,859	100,588,991

Table 3 - CAPITAL EMPLOYED, BY CLASSES AND BY PROVINCES, 1940 and 1941

Province	Present value of lands, buildings, fixtures, machinery and tools \$	Inventory value of materials on hand, stocks in process, fuel, etc., and fin- ished products on hand \$	Operating capital (cash, bills and accounts receiv- able, prepaid expenses, etc.) \$	TOTAL CAPITAL EMPLOYED \$
<u>1 9 4 0</u>				
Quebec	4,783,789	2,234,158	2,828,505	9,846,452
Ontario	8,745,472	6,192,155	6,454,885	21,392,512
British Columbia	94,828	27,229	90,135	212,192
Other provinces.	617,449	511,808	350,131	1,479,388
CANADA	14,241,538	8,965,350	9,723,656	32,930,544
<u>1 9 4 1</u>				
Quebec	10,976,868	6,355,085	5,827,501	23,159,454
Ontario	12,169,394	10,398,463	9,944,854	32,512,711
British Columbia	125,303	62,023	138,902	326,228
Other provinces.	603,335	671,483	619,686	1,894,504
CANADA	23,874,900	17,487,054	16,530,943	57,892,897

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1940 and 1941

Province	Average Number of Employees					Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
1940								
Quebec	279	90	1,504	93	1,966	718,853	1,907,459	2,626,312
Ontario	704	263	3,496	305	4,768	1,776,011	5,255,322	7,031,333
British Columbia	19	1	66	...	86	45,000	86,071	131,071
Other provinces.	87	4	418	25	534	151,444	431,415	582,859
CANADA	1,089	358	5,484	423	7,354	2,691,308	7,680,267	10,371,575
1941								
Quebec	404	192	3,854	260	4,710	1,195,101	5,752,226	6,947,327
Ontario	764	348	5,837	744	7,693	2,306,819	9,305,047	11,611,866
British Columbia	20	5	116	...	141	64,023	179,877	243,900
Other provinces.	59	5	535	47	646	136,914	620,346	757,260
CANADA	1,247	550	10,342	1,051	13,190	3,702,857	15,857,496	19,560,353

Table 5 - WAGE-EARNERS, BY MONTHS, 1940 and 1941 (On the last work day of each month)

Month	<u>1940</u>			<u>1941</u>		
	Male	Female	TOTAL	Male	Female	TOTAL
January	4,674	365	5,039	8,383	824	9,207
February	4,886	376	5,262	8,775	837	9,612
March	5,020	377	5,397	9,240	861	10,101
April	4,461	385	4,846	9,439	850	10,289
May	4,661	399	5,060	9,956	902	10,858
June	4,908	395	5,303	10,377	960	11,337
July	5,359	380	5,739	10,794	1,046	11,840
August	5,712	394	6,106	11,041	1,116	12,157
September	6,047	435	6,482	11,225	1,198	12,423
October	6,444	487	6,931	11,470	1,217	12,687
November	6,793	539	7,332	11,724	1,374	13,098
December	6,870	541	7,411	11,738	1,426	13,164
AVERAGE	5,484	423	5,907	10,342	1,051	11,393

Table 6 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 (In one week in month of highest employment; overtime included)

Hours worked per week -	Number of wage-earners		Hours worked per week -	Number of wage-earners	
	1940	1941		1940	1941
30 hours or less	264	400	55 hours	379	404
31-43 hours	427	609	56-64 hours	1,772	4,089
44 hours	804	492	65 hours and over..	788	989
45-47 hours ..	1,182	1,220	Total	7,842	13,741
48 hours	647	3,288	Total wages paid in		
49-50 hours	937	1,205	selected week .. \$	213,740	408,698
51-54 hours	642	1,045			

Table 7 - FUEL AND ELECTRICITY USED, 1940 and 1941

Kind	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian	ton	7,747	52,659	11,694	82,539
Imported	ton	27,241	113,554	19,110	132,924
Anthracite coal	ton	1,120	12,879	5,344	43,443
Lignite coal	ton	5	30	...	...
Coke	ton	9,360	93,670	12,783	139,735
Gasoline	Imp.gal.	82,094	19,504	173,782	45,601
Kerosene	Imp.gal.	24,775	3,871	38,179	6,252
Fuel oil	Imp.gal.	2,751,129	214,447	4,510,071	358,648
Wood	cord	205	1,147	351	2,175
Gas - Manufactured	M cu.ft.	28,693	23,164	52,024	38,951
Natural	M cu.ft.	29,561	11,674	50,121	19,535
Other fuel .....	...	...	7,666	...	34,458
Electricity purchased	K.W.H.	51,562,573	350,398	110,701,486	810,846
TOTAL .....	...	...	904,663	...	1,715,107

Table 8 - POWER EQUIPMENT, 1940 and 1941

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	1 9 4 0			
Steam engines and turbines	4	825	3	400
Gasoline, gas and oil engines	1	75	...	...
Electric motors run by purchased power	2,088	25,438	49	1,417
TOTAL	2,093	26,338	52	1,817
Electric motors run by primary power..	5	90	18	230
Stationary boilers	39	3,623	1	50
	1 9 4 1			
Steam engines and turbines	4	825	4	430
Gasoline, gas and oil engines	1	75	...	...
Electric motors run by purchased power	3,911	57,169	181	2,432
TOTAL	3,916	58,069	185	2,862
Electric motors run by primary power..
Stationary boilers	46	4,941	2	550



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