

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

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ANNUAL INDUSTRY REPORT

MANUFACTURES OF THE NON-FERROUS METALS GROUP

THE WHITE METAL PRODUCTS INDUSTRY, 1943

Statistics given in this report cover the operations of firms in Canada which were occupied chiefly in (a) the manufacture of white metal alloys, such as babbitt, solders, type and type metal; (b) the refining of scrap to recover white metals, such as lead, tin, zinc, etc.; and (c) the manufacture of products, such as lead sheet, lead pipe, antimonial lead, collapsible tubes, slide fasteners, castings, metal foil, etc., in which the white metals or their alloys are the principal materials. In some establishments all three of these operations were carried on so it is not practical to make any subdivision of the industry.

Thirty-six factories reported in this group in 1943 and the value of their output was \$22,231,960. This total was 4.7 per cent below the 1942 value of \$23,325,076.

Of the total output during the year under review, 75 per cent came from the 20 plants in Ontario, 19 per cent from the 10 plants in Quebec, and 6 per cent from 2 plants in Manitoba and 4 in British Columbia.

Capital employed in these works at the end of 1943 amounted to \$10,779,884 of which 37 per cent represented the value of land, buildings, plant and equipment, 24 per cent represented the value of inventories and stocks in process and 39 per cent the total of cash, accounts receivable, etc. The investment in works in Ontario was \$8,292,278; in Quebec, \$1,892,937, and in other provinces, \$594,669.

Employment was afforded to a monthly average of 2,790 people, including 443 on salaries and 2,347 on wages. Salaries for the year amounted to \$948,181 and wages to \$3,172,153, a total of \$4,120,334. In the previous year, the 2,583 workers were paid \$3,848,639 in salaries and wages.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$12,495,881 delivered at the works. Included in these materials were about 28,500 tons of scrap metals at \$3,778,772; 25,286 tons of pig lead at \$2,499,426; 1,043 tons of pig tin at \$1,303,490; 1,181 tons of aluminum at \$275,511; 8,898 tons of zinc spelter at \$1,045,000, and other metals at \$2,153,856.

Production included 16,531 tons of refined metals (recovered from scrap) valued at \$2,538,723; 4,110 tons of solders at \$1,947,118; 2,118 tons of type and type metal at \$422,098; 1,838 tons of babbitt metal at \$937,254; 9,151 tons of die castings at \$4,064,901; 2,668 tons of lead pipe at \$477,089; 2,375 tons of lead sheets at \$396,514, and other lines, such as metal foil, slide fasteners, moulded shot, collapsible tubes, nickel-chrome tubing, etc.

Table 1 - PRINCIPAL STATISTICS, 1933-1943

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
1933 ....	23	4,842,077	680	765,075	69,275	2,501,790	4,236,751
1934 ....	31	4,847,914	790	840,698	78,141	3,138,319	5,227,047
1935 ....	32	5,521,720	797	911,644	83,503	3,993,110	6,182,402
1936 ....	35	5,382,130	834	1,017,732	99,860	4,358,439	6,305,041
1937 ....	38	7,155,603	1,222	1,360,216	108,519	5,749,842	9,011,283
1938 ....	35	7,197,855	1,252	1,434,089	109,787	4,506,881	7,660,254
1939 ....	35	7,936,725	1,347	1,586,182	121,185	4,927,693	8,937,165
1940 ....	41	9,961,580	1,671	2,040,629	162,872	7,341,052	12,539,215
1941 ....	43	13,981,556	2,343	3,114,179	273,427	13,795,427	21,307,949
1942 ....	40	12,585,907	2,583	3,848,639	314,986	13,328,759	23,325,076
1943 ....	36	10,779,884	2,790	4,120,334	336,494	12,495,381	22,231,960
Per cent change, 1943 from 1942 ....	...	-14.4	+8.0	+7.0	+6.7	-6.2	-4.7

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 PROVINCES, 1942 and 1943

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>1942</u>							
Quebec ..	12	3,256,716	253	438,282	36,369	3,187,525	4,392,044
Ontario..	21	8,659,042	2,227	3,260,906	254,531	9,341,013	17,735,305
Manitoba.	2)						
British Columbia	)	670,149	103	149,451	24,086	800,221	1,197,727
CANADA ..	40	12,585,907	2,583	3,848,639	314,986	13,328,759	23,325,076

1943

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
Quebec ..	10	1,892,957	253	483,040	38,085	2,355,378	4,311,979
Ontario..	20	8,292,278	2,429	3,481,531	274,562	8,640,877	16,675,054
Manitoba.	2)						
British Columbia	)	594,669	102	155,703	23,847	899,626	1,244,927
CANADA ..	36	10,779,884	2,790	4,120,334	336,494	12,495,381	22,231,960

Table 3 - CAPITAL EMPLOYED, 1942 and 1943 (On the last day of the year)

Province	Value of Inventories				TOTAL CAPITAL EMPLOYED
	Present value of land, buildings, machinery, tools, etc.	Raw materials, fuel and other sup- plies on hand and stocks in process	Finished products on hand	Cash, bills and accounts receivable, etc.	
<u>1942</u>					
Quebec .....	1,495,430	334,655	434,904	991,727	3,256,716
Ontario .....	2,817,068	2,017,173	426,410	3,398,382	8,659,042
Manitoba .....	212,500	145,502	98,274	213,873	670,149
British Columbia)					
CANADA .....	4,524,398	2,497,330	959,597	4,603,382	12,585,907
<u>1943</u>					
Quebec .....	626,364	192,577	249,416	824,580	1,892,937
Ontario .....	3,140,267	1,260,359	790,112	3,101,540	8,292,278
Manitoba .....	177,335	42,273	105,606	279,455	594,669
British Columbia)					
CANADA .....	3,943,966	1,495,209	1,145,134	4,195,575	10,779,884

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1942 and 1943

Province	Average Number of Employees				TOTAL SALARIES and WAGES
	On Salaries Male	On Salaries Female	On Wages Male	On Wages Female	
<u>1942</u>					
Quebec .....	53	18	176	6	253
Ontario .....	192	151	1,167	717	2,227
Manitoba .....	16	15	70	2	103
British Columbia)					
CANADA .....	261	184	1,413	725	2,583
<u>1943</u>					
Quebec .....	42	19	184	14	259
Ontario .....	198	151	1,128	952	2,429
Manitoba .....	16	17	66	3	102
British Columbia)					
CANADA .....	256	187	1,378	969	2,790

Table 5 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (On the last work-day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	1,494	631	2,125	1,478	890	2,368
February .....	1,487	616	2,103	1,463	899	2,362
March .....	1,388	587	1,975	1,420	904	2,324
April .....	1,374	710	2,084	1,402	899	2,301
May .....	1,365	771	2,136	1,291	964	2,255
June .....	1,455	830	2,285	1,325	929	2,252
July .....	1,424	868	2,292	1,312	968	2,280
August .....	1,395	894	2,289	1,314	997	2,311
September .....	1,361	706	2,067	1,349	964	2,313
October .....	1,392	725	2,117	1,359	1,044	2,403
November .....	1,416	690	2,106	1,416	1,115	2,531
December .....	1,413	671	2,084	1,400	1,045	2,445
AVERAGE .....	1,413	725	2,138	1,378	969	2,347

Table 6 - HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1942 and 1943 (In one week of highest employment; overtime included)

Hours worked per week	Number of Wage-Earners					
	1 9 4 2		1 9 4 3		Male	Female
	Male	Female	Male	Female		
30 hours or less .....		119	104	137	200	
31-43 hours .....		132	116	162	152	
44 hours .....		61	23	65	37	
45-47 hours .....		52	40	83	71	
48 hours .....		198	28	423	268	
49-50 hours .....		106	111	162	184	
51-54 hours .....		196	91	192	85	
55 hours .....		78	38	97	34	
56-64 hours .....		363	194	252	56	
65 hours and over .....		438	242	60	15	
TOTAL .....		1,743	987	1,633	1,102	
Total wages paid in selected week \$		53,358	17,570	52,878	22,026	

Table 7 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal--Canadian Imported	ton ton	794 2,635	6,500 23,429	662 4,486	7,132 41,097
Anthracite coal .....	ton	506	5,565	519	4,676
Coke .....	ton	1,192	13,866	375	4,319
Gasoline .....	Imp.gal.	20,586	6,375	17,417	5,494
Kerosene .....	Imp.gal.	1,843	492	1,720	435
Fuel oil .....	Imp.gal.	1,705,736	144,103	1,517,944	138,086
Wood .....	cord	7	47	6	69
Gas--Manufactured Natural	M cu.ft. M cu.ft.	102,284 40,771	25,377 19,201	98,251 51,331	26,055 41,010
Other fuel .....	...	...	5	...	32
Electricity purchased ...	K.W.H.	7,327,668	69,526	8,339,534	68,089
TOTAL .....	...	...	314,986	...	336,494

White Metal

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Table 8 - POWER EQUIPMENT, 1942 and 1943

	1 9 4 2		1 9 4 3	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Diesel engines -				
In use .....	1	7	1	7
Gasoline engines -				
In use .....	1	20	...	...
Electric motors operated on purchased power -				
In use .....	1,335	6,903	1,354	6,650
In reserve or idle .....	84	354	73	309
TOTAL .....	1,421	6,284	1,355	6,657
Stationary boilers -				
In use .....	8	465	10	569
In reserve or idle .....	2	175	...	...
Motor generator sets .....	6	43	6	31

Table 9 - MATERIALS USED, 1942 and 1943

Material	1 9 4 2		1 9 4 3	
	Quantity	Cost at works(x)	Quantity	Cost at works(x)
<u>METALS (Other than scrap) -</u>				
Aluminum--Ingots .....	lb.	1,267,819	255,203	1,082,030
Other forms .....	lb.	89,953	21,506	26,732
Antimony metal .....	lb.	1,818,370	264,838	1,814,414
Arsenic .....	lb.	49,358	3,659	42,715
Bismuth .....	lb.	25,979	29,203	55,115
Brass and bronze, all forms	lb.	38,355	6,989	34,739
Cadmium .....	lb.	347,725	363,300	267,586
Copper ingots and slabs ...	lb.	4,470,119	520,123	5,297,447
Die casting alloy .....	lb.	827,389	67,519	2,474,917
Lead, pig .....	lb.	48,281,959	2,413,106	51,823,690
Manganese metal .....	lb.	38,267	19,508	77,220
Nickel .....	lb.	117,244	34,095	51,431
Silver, fine .....	Troy oz.	244,869	102,108	400,736
Tin, pig .....	lb.	3,059,671	1,854,415	2,085,417
Zinc spelter .....	lb.	26,581,960	1,574,010	17,795,100
Other metals, except scrap, but including alloys .....	lb.	...	569,404	...
TOTAL .....				497,263
<u>SCRAP METALS -</u>				
Aluminum .....	lb.	4,522,083	500,596	5,816,697
Brass and bronze, all kinds	lb.	5,469,188	464,884	8,841,452
Copper, all kinds .....	lb.	9,669,323	992,895	9,250,095
Lead, battery plates .....	lb.	13,742,678	397,581	15,325,962
Lead, all other kinds .....	lb.	7,452,200	358,491	7,300,276
Zinc, all kinds .....	lb.	1,746,106	74,347	5,225,818
Babbitt .....	lb.	1,235,253	137,649	1,484,532
Solder .....	lb.	967,967	192,168	809,784
Tin .....	lb.	77,432	37,018	105,477
Type metal .....	lb.	2,157,237	133,366	1,932,204

Table 9 - MATERIALS USED, 1942 and 1943 (Concluded)

Material	1 9 4 2			1 9 4 3		
	Quantity	Cost at works (x)	\$	Quantity	Cost at works (x)	\$
<b>Scrap Metals (Con.) -</b>						
Drosses .....	1b.	3,395,208	105,535	2,851,260	83,580	
Other scrap, including scrap unspecified by kind .....	1b.	...	325,031	...	204,423	
Shipping containers .....	...	...	36,138	...	43,848	
All other materials .....	...	...	1,467,805	...	1,389,976	
<b>TOTAL</b> .....	...	13,323,759	...	...	12,495,881	

(x) Includes freight, duty, taxes, etc.

Table 10 - PRODUCTS MADE, 1942 and 1943

Product	1 9 4 2			1 9 4 3		
	Quantity	Selling value	\$	Quantity	Selling value	\$
	lb.	\$		lb.	\$	\$
<b>Refined Metals (reclaimed or remelted) -</b>						
Aluminum .....	3,981,130	711,233		4,932,834	866,720	
Lead (Antimonial) .....	21,917,615	1,330,468		22,475,852	1,279,049	
Lead (Common) .....	7,667,068	444,508		4,149,710	212,871	
Tin .....	64,511	38,730		258,503	168,337	
Zinc .....	1,167,070	53,086		1,243,541	61,737	
<b>Alloys -</b>						
Babbitt .....	3,994,034	1,053,157		3,675,988	937,364	
Brass .....	3,551,905	351,524		6,404,552	840,684	
Bronze .....	14,509,498	2,235,443		13,216,878	1,965,715	
Copper alloys, not elsewhere specified .....	4,615,829	658,814		4,635,620	668,010	
Lead alloys, not elsewhere specified .....	958,066	68,195		1,000,232	70,213	
Solders .....	7,618,416	1,840,715		8,219,870	1,947,118	
Tin alloys, not elsewhere specified .....	13,216	5,401		...	...	
Type and type metal .....	4,150,069	447,079		5,996,676	547,878	
Zinc alloys, not elsewhere specified .....	3,623,060	286,733		2,362,346	207,277	
Other non-ferrous alloys .....	...	82,479		...	40,500	
<b>Castings -</b>						
Die castings, all kinds .....	25,855,739	4,287,215		16,502,210	4,064,901	
Other castings-Brass and bronze	1,734,736	604,612		1,396,647	461,267	
Lead .....	1,254,582	90,333		879,876	69,744	
Other .....	...	58,742		...	62,960	
<b>Lead products -</b>						
Pipe .....	6,354,726	539,870		5,335,392	477,089	
Sheets .....	4,487,412	358,630		4,748,857	396,514	
Traps and fittings .....	1,036,192	180,297		348,607	152,498	
Miscellaneous, including bullet wire, shot, etc. ....	...	1,237,318		23,820,505	741,248	
Scrap and dross .....	1,045,168	33,392		1,318,971	23,139	
All other products (x) .....	...	6,312,833		...	6,092,754	
<b>TOTAL</b> .....	...	23,325,076		...	22,231,360	

(x) Includes foil, collapsible tubes, zipper fasteners, etc.

Table 11 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1935-1943

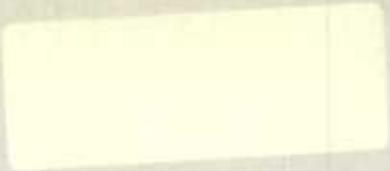
Year	Babbitt Metal		Solders of All Kinds		Type and Type Metal	
	Quantity	Selling value at works	Quantity	Selling value at works	Quantity	Selling value at works
1935 .....	2,418,522	558,991	3,944,727	1,011,679	4,346,228	385,991
1936 .....	2,662,706	475,544	4,420,555	1,075,694	5,906,174	377,673
1937 .....	2,905,351	641,880	5,789,677	1,618,209	4,166,091	407,819
1938 .....	2,229,444	455,742	5,032,225	1,201,999	3,635,344	355,636
1939 .....	2,623,562	530,630	5,020,048	1,330,681	4,546,996	437,740
1940 .....	3,211,629	846,507	6,453,586	1,708,063	4,342,916	415,531
1941 .....	4,327,028	1,053,291	8,747,192	2,480,995	5,377,059	501,694
1942 .....	3,094,034	1,053,157	7,618,416	1,840,715	4,150,069	447,079
1943 .....	3,675,988	937,254	8,219,870	1,947,118	5,936,676	547,878

## DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1943

Name of Firm	Location of Plant
<u>QUEBEC</u> -	
The Canada Metal Company Limited	6265 Notre Dame St. E., Montreal
Eagle Smelting & Refining Works Limited	1095 Wellington St., Montreal
Kay Metal Refining Works Reg'd.	301 Nazareth St., Montreal
Magnolia Metal Co. of Canada, Limited	2028 Manufacturers St., Montreal
Mayer Sealing Devices Reg'd.	11425 Cherrier St. E., Montreal
Mount Royal Metal Co. Ltd.	1201 Mill St., Montreal
Ouellette, O. J., & Co.	270 Vitre St., Montreal
Riverside Smelting & Refining Works, Ltd.	639 Farm St., Montreal
The Steel Company of Canada, Limited	2320 Notre Dame St. W., Montreal
Standard Metal Co. Ltd.	536 Dollard Ave., Ville La Salle, Que.
<u>ONTARIO</u> -	
Barber Die Casting Co. Ltd.	68 Sanford Ave. N., Hamilton
Bowes, Harold S.	R.R. No. 7, Mt. Pleasant Drive, London
Canada Foils Limited	7 Fraser Ave., Toronto
The Canada Metal Co. Ltd.	721 Eastern Ave., Toronto
Canadian Hanson & Van Winkle Co. Limited	15 Morrow Ave., Toronto
Dominion and Monarch Type Foundry	80 Nelson St., Toronto
Frankel Brothers Limited and National Metal Company Ltd.	Don Roadway and Eastern Ave., Toronto
General Smelting Co. of Canada, Limited	Wilcox St., Hamilton
Hewitt Metals Corporation, Limited	235 Hanna St. E., Windsor
Kester Solder Company of Canada Limited	51 Bruce St., Brantford
Lightning Fastener Co. Ltd.	Niagara St., St. Catharines
London Die Casting Co. Limited	1163 King St., London
Metals & Alloys Limited	3-7 Wiltshire Ave., Toronto
Modern Containers Limited	95 Sterling Rd., Toronto and 346 Queen St., Ottawa
Moore Type Foundry Limited	431 King St. W., Toronto
Newburg Die Castings	29A Birch Ave., Toronto

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1943  
(Concluded)

Name of Firm	Location of Plant
<u>ONTARIO</u> (Con.) -	
Pressure Castings of Canada Limited	67 Main St. S., Weston
Schultz Die Casting Co. of Canada Limited	Wallaceburg
Spooner Copperine Company Limited	John St., Port Hope
<u>MANITOBA</u> -	
The Canada Metal Co. Ltd.	301 Chambers St., Winnipeg
The Union Metal Company Limited	654 McGee St., Winnipeg
<u>BRITISH COLUMBIA</u> -	
Atlas Smelting & Refining Co. Ltd.	321 East First Ave., Vancouver
B.C. Metals Limited	Baird St., New Westminster
The Canada Metal Co. Ltd.	1428 Granville St., Vancouver
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver



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