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

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**THE**  
**WHITE METAL ALLOYS INDUSTRY**  
**IN**  
**CANADA**  
**1940**

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OTTAWA  
1942

Price 25 cents



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ANNUAL INDUSTRY REPORTMANUFACTURES OF THE NON-FERROUS METALS GROUPTHE WHITE METAL ALLOYS INDUSTRY, 1940

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 and zinc, etc.; and (c) the manufacture of such articles as lead sheet, lead pipe, antimonial lead, collapsible tubes, slide fasteners, 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.

Forty-one factories reported in this group in 1940 and the value of their output was \$12,599,215. This total was 41 per cent over the 1933 value of \$8,937,165.

Of the total output during the year under review, 71 per cent came from the 24 plants in Ontario, 23 per cent from the 12 plants in Quebec and 6 per cent from 2 plants in Manitoba and 3 in British Columbia.

Capital employed in these works at the end of 1940 amounted to \$9,961,580, of which 42 per cent represented the value of land, buildings, plant and equipment, 28 per cent represented the value of inventories and stocks in process and 30 per cent the total of cash, accounts receivable, etc. The investment in works in Ontario was \$7,709,977, in Quebec, \$1,780,533 and in other provinces, \$471,064.

Employment was afforded to a monthly average of 1,671 people, including 355 on salaries and 1,316 on wages. Salaries for the year amounted to \$648,622 and wages to \$1,392,007, a total of \$2,040,629. In the previous year, the 1,347 workers were paid \$1,586,182 in salaries and wages.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$7,941,052 delivered at the works. Included in these materials were 24,843 tons of scrap metals at \$2,676,943; 10,010 tons of pig lead at \$973,800; 2,021 tons of pig tin at \$2,119,020; 1,106 tons of aluminium at \$537,173; 3,064 tons of zinc spelter at \$369,842 and 1,292 tons of other metals at \$575,210.

Production included 17,654 tons of refined metals (recovered from scrap) valued at \$2,732,931; 3,217 tons of solders at \$1,708,063; 2,171 tons of type and type metal at \$415,531; 1,606 tons of babbitt metal at \$846,507; 3,154 tons of die castings at \$998,575; 1,474 tons of lead pipe at \$267,155; 1,274 tons of lead sheets at \$306,834, and other lines, such as, metal foil, slide fasteners, moulded shot, collapsible tubes, nickel-chrome tubing, etc.



Table 1 - PRINCIPAL STATISTICS, 1930 - 1940

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 \$
1930 .....	23	4,612,408	614	734,650	78,147	3,813,509	5,178,588
1931 .....	23	4,507,307	532	639,831	72,185	2,330,652	4,137,600
1932 .....	24	4,434,722	532	621,480	62,970	1,935,507	3,498,049
1933 .....	29	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	5,882,190	894	1,017,732	99,860	4,356,439	6,905,041
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	7,941,052	12,599,215
Per cent change 1940 from 1933 ..	..	+25.5	+24.0	+28.7	+34.4	+61.0	+41.0

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, 1939 and 1940

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>1939</u>							
Quebec .....	9	1,328,318	152	209,417	17,056	1,195,911	1,883,544
Ontario .....	22	6,209,881	1,157	1,312,032	95,227	3,394,534	6,557,462
Manitoba .....	2)						
British Columbia ...	)	398,526	38	64,733	8,902	337,248	496,159
CANADA...	35	7,936,725	1,347	1,586,182	121,185	4,927,693	8,937,165
<u>1940</u>							
Quebec .....	12	1,780,559	193	267,526	25,191	2,227,855	2,931,936
Ontario .....	24	7,709,977	1,436	1,704,045	125,771	5,252,301	8,933,904
Manitoba .....	2)						
British Columbia ....	)	471,064	42	69,058	11,910	460,896	733,375
CANADA...	41	9,961,580	1,671	2,040,629	162,872	7,941,052	12,599,215

Table 3 - CAPITAL EMPLOYED, 1939 and 1940

Provinces	Present value of lands, buildings, machinery, tools, etc.	Inventory value of materials and finished products on hand, stock in process, fuel and other supplies	Operating capital (cash, bills and accounts receivable)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<b>1939</b>				
Quebec .....	574,012	285,451	468,855	1,328,318
Ontario .....	2,725,053	1,171,836	2,312,942	6,209,881
Manitoba .....	174,482	119,141	104,903	398,526
British Columbia ..)				
CANADA ....	3,473,547	1,576,478	2,886,700	7,936,725
<b>1940</b>				
Quebec .....	887,283	458,108	435,148	1,780,539
Ontario .....	3,129,810	2,199,987	2,380,180	7,709,977
Manitoba .....	187,860	155,092	128,112	471,064
British Columbia ..)				
CANADA ....	4,204,953	2,813,187	2,943,440	9,961,580

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1939 and 1940

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL
	On Salaries		On Wages		Total			SALARIES
	Male	Female	Male	Female				
						\$	\$	\$
1939								
Quebec .....	37	9	105	1	152	104,009	105,408	209,417
Ontario .....	141	84	649	283	1,157	414,790	897,242	1,312,032
Manitoba .....	10	5	23	...	38	34,571	30,162	64,733
British Columbia)								
CANADA ...	188	98	777	284	1,347	553,370	1,032,812	1,586,182
1940								
Quebec .....	47	12	134	...	193	122,734	144,792	267,526
Ontario .....	175	106	823	332	1,436	493,022	1,211,023	1,704,045
Manitoba .....	9	6	27	...	42	32,866	36,192	69,058
British Columbia)								
CANADA ...	231	124	984	362	1,671	648,622	1,392,007	2,040,629

Table 5 - WAGE-EARNERS, BY MONTHS, 1939 and 1940 (On the last work day of each month)

Months	1939			1940		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	770	247	1,017	882	309	1,191
February .....	745	242	987	885	318	1,203
March .....	714	248	962	889	321	1,210
April .....	717	243	960	897	316	1,213
May .....	716	248	964	908	319	1,227
June .....	750	264	1,014	984	329	1,313
July .....	765	262	1,027	1,004	296	1,300
August .....	797	287	1,084	1,026	304	1,330
September .....	831	318	1,149	1,052	344	1,396
October .....	838	339	1,177	1,077	357	1,434
November .....	873	352	1,225	1,109	376	1,485
December .....	853	358	1,211	1,106	399	1,505
AVERAGE ....	777	284	1,061	984	332	1,316



Table 6 - HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1940 (In one week of highest employment; overtime included)

Hours worked per week	Number of wage- earners	Per cent of total	Hours worked per week	Number of wage- earners	Per cent of total
30 hours or less ..	48	33.1	51 - 54 hours ...	258	16.6
31 - 43 hours .....	60	3.9	55 hours .....	86	5.6
44 hours .....	70	4.6	56 - 64 hours ...	427	27.7
45 - 47 hours .....	91	5.9	65 hours and over	226	14.6
48 hours .....	102	6.6	Total .....	1,543	100.0
49 - 50 hours .....	175	11.4	Total wages paid in selected week	\$35,740	

Table 7 - FUEL AND ELECTRICITY USED, 1939 and 1940

Kinds	Unit of measure	1 9 3 9		1 9 4 0	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	short ton	661	4,851	883	6,840
Imported	short ton	1,285	10,359	1,352	11,261
Anthracite coal .....	short ton	119	1,490	316	2,650
Coke .....	short ton	729	6,679	1,092	10,393
Gasoline .....	Imp. gal.	16,922	2,561	32,678	8,024
Kerosene .....	Imp. gal.	492	78	7,570	1,307
Fuel oil .....	Imp. gal.	325,631	25,636	529,565	42,453
Wood .....	cord	53	350	48	344
Gas - Manufactured .....	M cu. ft.	30,499	9,882	14,859	14,820
Natural .....	M cu. ft.	10,972	6,105	16,526	8,173
Other fuel .....	...	...	35	...	19
Electricity purchased .....	K. W. H.	4,895,156	53,099	5,407,740	56,598
TOTAL .....	...	...	121,185	...	162,872

Table 8 - POWER EQUIPMENT, 1939 and 1940

	1 9 3 9		1 9 4 0	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Electric motors operated by purchased power -				
In use .....	680	5,275	838	5,683
In reserve or idle ...	22	180	17	130
TOTAL .....	702	5,453	855	5,813
Stationary boilers -				
In use .....	3	93	4	103
In reserve or idle ...	1	65	1	65

Table 9 - MATERIALS USED, 1939 and 1940

Materials	1	9	3	9	1	9	4	0
	Quantity		Cost at		Quantity		Cost at	
	lb.		works	(x)	lb.		works	(x)
				\$				\$
METALS (other than scrap) -								
Aluminium - Ingots .....	1,516,717		311,295		442,861		87,131	
Other forms .....					1,769,665		450,042	
Antimony, regulus .....	671,118		70,855		735,051		113,881	
Antimony ore .....	114,143		5,407		357,579		17,123	
Brass and bronze, all forms.	...		...		4,362		772	
Cadmium .....	76,072		49,722		121,008		109,430	
Copper ingots and slabs ....	115,851		13,340		290,498		34,168	
Die casting alloy .....	...		...		282,393		4,645	
Lead, pig .....	13,579,186		446,021		20,020,978		979,800	
Nickel .....	228,525		67,657		258,529		75,690	
Nickel-chrome .....	79,102		56,800		26,600		19,101	
Tin, pig .....	2,902,169		1,443,047		4,042,725		2,119,020	
Tin plate .....	64,520		10,442		...		...	
Zinc spelter .....	2,464,493		122,332		6,127,394		369,842	
Other metals, except scrap..	727,674		127,644		866,652		217,473	
SCRAP METALS -								
Aluminium .....	2,539,707		322,987		3,039,750		369,933	
Brass and bronze, all kinds.	2,570,468		171,663		3,931,329		337,504	
Copper, all kinds .....	2,411,785		184,371		4,098,077		354,346	
Lead, battery plates .....	8,252,238		214,709		14,084,058		385,921	
Lead, all other kinds .....	3,715,164		149,945		13,569,934		585,048	
Zinc, all kinds .....	771,921		18,982		1,428,594		47,383	
Babbitt .....	1,479,824		176,519		1,558,659		160,923	
Solder .....	135,510		17,703		528,879		117,306	
Tin .....	60,754		24,671		62,624		26,782	
Type metal .....	1,107,082		58,455		2,189,929		111,358	
Drosses .....	5,895,990		132,151		4,774,673		149,010	
Other scrap, including scrap								
unspecified by kind .....	2,383,066		129,321		419,896		31,429	
Shipping containers .....	...		31,934		...		37,138	
All other materials .....	...		569,060		...		629,733	
TOTAL .....	...		4,927,693		...		7,941,052	

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



Table 10 - PRODUCTS MADE, 1933 and 1940

NOTE: Data given in this table cover only the production by firms which have been classified to this particular industry (see Directory), and do not necessarily represent the total output for Canada. The figure (1) indicates that the figures are incomplete and that production was also reported in other industries.

Products	1 9 3 9		1 9 4 0	
	Selling value		Selling value	
	Quantity	at works(x)	Quantity	at works(x)
	lb.	\$	lb.	\$
Babbitt metal .....	2,623,562	530,630	3,211,629	846,507
Bars and ingots (from scrap) -				
Aluminium (1) .....	1,899,550	237,699	2,808,280	496,557
Brass, bronze and copper (1) ..	3,528,298	284,688	7,188,163	736,022
Lead - Antimonial .....	9,671,387	480,471	16,013,623	888,202
Other .....	2,306,659	111,103	5,983,008	333,905
Tin .....	165,914	90,223	201,969	119,666
Zinc .....	2,835,309	123,030	3,097,222	156,339
Other .....	...	...	16,173	2,294
Castings (except die castings) -				
Aluminium (1) .....	27,036	11,326	29,778	16,667
Brass and bronze (1) .....	824,665	190,490	924,469	248,243
Lead (1) .....	259,808	23,353	312,774	24,616
Zinc (1) .....	96,239	12,392	699,486	63,899
Other, including nickel and cadmium anodes .....	381,390	206,292	836,503	323,050
Castings, die, all kinds .....	2,032,969	403,117	6,307,893	938,573
Lead pipe .....	2,832,161	253,230	2,947,604	267,155
Lead sheets .....	2,353,555	187,790	3,947,002	306,834
Lead traps and fittings .....	714,018	126,874	713,155	129,075
Lead products, other .....	921,697	166,847	2,981,194	360,094
Scrap and dross (sold) .....	712,665	29,105	869,503	34,755
Solders .....	5,020,048	1,330,681	6,433,586	1,703,063
Type and type metal .....	4,546,996	437,740	4,342,916	415,531
All other products (xx) .....	...	3,648,202	...	4,123,162
TOTAL .....	...	8,937,165	...	12,539,215

(x) F.O.B. works, excluding sales tax and other excise duties.

(xx) Includes data for foil, collapsible tubes, slide fasteners, chrome-nickel tubing, etc., which were reported by only one or two companies in this industry, and for which, therefore, production figures cannot be shown separately.

Table 11 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1940

Years	BABBITT METAL		SOLDERS OF ALL KINDS		TYPE AND TYPE METAL	
	Selling value		Selling value		Selling value	
	Quantity	at works	Quantity	at works	Quantity	at works
	Pounds	\$	Pounds	\$	Pounds	\$
1924 ...	3,086,741	869,007	1,979,797	625,642	1,381,426	278,705
1925 ...	4,366,373	1,063,340	2,139,116	700,040	2,242,259	246,794
1926 ...	4,999,541	1,185,209	2,549,567	888,001	2,491,084	294,652
1927 ...	5,186,021	1,063,391	2,853,399	941,020	2,693,905	303,176
1928 ...	5,485,375	1,089,616	3,561,987	851,395	2,475,724	253,619
1929 ...	5,247,142	730,358	3,336,576	824,101	4,094,203	407,046
1930 ...	4,361,533	609,388	2,933,237	581,386	4,105,235	401,042
1931 ...	2,011,315	432,506	2,235,221	398,378	3,065,283	274,483
1932 ...	1,413,699	255,058	2,084,447	353,361	2,777,781	218,956
1933 ...	1,485,915	320,472	2,244,210	498,362	2,999,017	230,576
1934 ...	1,948,510	436,182	3,090,359	816,712	4,102,992	318,644



# White Metal Alloys

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Table 11 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1940 (Cont.)

Years	BABBITT METAL		SOLDERS OF ALL KINDS		TYPE AND TYPE METAL	
	Selling value		Selling value		Selling value	
	Quantity	at works	Quantity	at works	Quantity	at works
	Pounds	\$	Pounds	\$	Pounds	\$
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	3,906,174	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	6,433,586	1,708,063	4,342,916	415,531

Table 12 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1939 and 1940

(n.o.p. means "not otherwise provided for")

(n.o.p. means not otherwise provided for)					
Items	1 9 3 9		1 9 4 0		
	Quantity	Value	Quantity	Value	
		\$		\$	
<b>Imports -</b>					
Lead, pigs and blocks .....	1b.	12,666	1,437	242,450	11,856
Lead, old and scrap .....	1b.	4,180	385	64,355	3,107
Lead, bars and sheets .....	1b.	88,092	5,442	40,315	3,646
Lead pipe .....	1b.	69,525	3,798	15,590	1,008
Lead capsules for bottles .....	...	...	78,652	...	100,114
Lead shot and bullets .....	1b.	11,726	974	3,082	1,471
Manufactures of lead, n.o.p. ....	...	...	80,338	...	95,495
TOTAL LEAD AND ITS PRODUCTS ...	...	...	171,026	...	216,697
Tin in blocks, pigs and bars .....	cwt.	58,257	2,833,089	118,378	6,235,268
Tin foil .....	lb.	38,520	12,133	34,335	10,244
Collapsible tubes .....	...	...	64,523	...	100,868
TOTAL TIN AND ITS PRODUCTS ....	...	...	2,909,745	...	6,346,380
Zinc spelter .....	cwt.	12	36	18	163
Zinc in blocks, pigs, bars and rods					
and zinc plates, n.o.p. ....	cwt.	385	3,347	307	4,457
Zinc strip and sheets, and zinc					
plates for marine boilers .....	cwt.	70,043	547,514	60,045	591,180
Zinc dust .....	cwt.	13,019	80,571	12,243	96,732
Zinc slugs or discs imported by					
manufacturers of electric storage					
batteries .....	...	...	60,232	...	92,228
Zinc manufactures, n.o.p. ....	...	...	283,127	...	333,762
TOTAL ZINC AND ITS PRODUCTS ...	...	...	374,887	...	1,178,522
<b>Alloys, n.o.p. -</b>					
Babbitt metal in blocks, bars,					
plates and sheets .....	cwt.	1,424	12,758	376	13,791
Britannia metal in blocks, pigs					
and bars .....	cwt.	60	1,974	60	2,165
Britannia metal, manufactures of,					
not plated .....	cwt.	...	8,775	...	10,428

Table 12 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS,  
1939 and 1940 - (Concluded)  
(n.o.p. means "not otherwise provided for")

Items	1 9 3 9		1 9 4 0	
	Quantity	Value	Quantity	Value
		\$		\$
<u>Imports (Concluded) -</u>				
Alloys, n.o.p. (Con.) -				
Chromium metal and tungsten metal in lumps, powder, ingots, blocks and bars, and scrap of alloy metal containing chromium and tungsten, when imported by manufacturers for use exclusively for alloying purposes in their own factories .....	lb.	55,428 50,769	143,184	170,103
Metal alloy slugs, cast with diamonds or diamond chips embedded therein, of any size or shape, in condition as from the mould, and metal alloy strip containing not less than 33 1/3 per cent by weight of nickel and 12 per cent by weight of chromium, when for use in Canadian manufactures (.....)		77,743	...	134,386
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire .....	lb.	740,691 235,420	1,552,689	619,557
Yellow metal in bars, bolts and sheets, for use in the construction or repair of vessels .....	cwt.	73 1,617	68	1,343
Copper alloys containing boron, for use exclusively as a flux or deoxidizer .....		406	...	1,392
TOTAL OF ABOVE ALLOYS, N.O.P. ...		389,462	...	953,655
Alloys of copper, n.o.p., containing 50 per cent or more by weight of copper (from June 3, 1939) .....		3,714	...	68,938
Alloys of magnesium (from June 3, 1939) .....		575	...	1,602
TOTAL OF ABOVE ALLOYS, N.O.P. ...		393,751	...	1,024,255
Type metal in blocks, bars, plates and sheets .....	lb.	647 72	4,812	579
Type for printing, including chases, quoins, and slugs of all kinds ....		48,280	...	45,593
TOTAL TYPE AND TYPE METAL .....		48,352	...	46,172
<u>Exports -</u>				
Lead, metallic, contained in ore ...	cwt.	82,042 393,811	183,398	462,159
Lead in pigs, refined lead, etc. ...	tons	180,736 9,450,265	151,546	9,028,165
TOTAL LEAD AND ITS PRODUCTS .....		9,850,076	...	9,490,324
Zinc contained in ore .....	cwt.	412,606 526,905	670,213	780,852
Zinc spelter .....	tons	155,995 9,343,586	467,179	11,133,824
Zinc dross and ashes .....	cwt.	39,185 51,741	53,973	123,757
TOTAL ZINC AND ITS PRODUCTS .....		9,922,232	...	12,038,433

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1940

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products</u>
<u>QUEBEC -</u>		
Atlas Metal & Alloys Co. of Canada, Ltd.	421 St. Henry St., Montreal	Babbitt; solders.
The Canada Metal Company Limited	6265 Notre Dame St. E., Montreal	Babbitt; bars and ingots of lead and zinc; zinc base alloy die castings; castings of lead and zinc; pipe, sheets, traps and fittings of lead; solders; type and type metal.
Eagle Smelting & Refining Works Limited	400 Richmond St., Montreal	Babbitt; bars and ingots of antimony, tin and zinc; castings of bronze and lead; solders; type and type metal.
Kay Metal Refining Works Reg'd.	301 Nazareth St., Montreal	Bars and ingots of lead, tin and zinc; lead castings; solders; type and type metal.
Liberty Smelting Works	269 Prince St., Montreal	Babbitt; bars and ingots of brass and bronze, copper, lead and zinc; die castings of aluminium base alloy; castings.
Magnolia Metal Co. of Canada, Limited	2026 Manufacturers St., Montreal	Babbitt; bars and ingots of lead; type and type metal.
Mayer Sealing Devices Reg'd.	11425 Cherrier St. E., Montreal	Lead seals.
Mount Royal Metal Co. Ltd.	1201 Mill St., Montreal	Babbitt; bars and ingots of lead and tin; lead pipe; lead sheets; lead traps and fittings; cane lead, wire and ribbon lead; solders; type and type metal; block tin pipe.
Oublette, O. J., & Co. Richler, Michael	270 Vitre St., Montreal 846 William St., Montreal	Type and type metal; nails. Babbitt; bars and ingots of lead and zinc; type and type metal.
Riverside Smelting & Refining Works, Ltd.	639 Farm St., Montreal	Babbitt; bars and ingots of lead and zinc; solders; type and type metal.
The Steel Company of Canada, Limited	2320 Notre Dame St. W., Montreal	Babbitt; dropped and moulded shot; lead wire.



DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1940  
(Continued)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products</u>
<u>ONTARIO</u>		
Addressograph-Multigraph of Canada Limited	342 Carlaw Ave., Toronto	Addressograph plates and frames; multilith supplies.
Barber Die Casting Co. Ltd.	68 Sanford Ave. N., Hamilton	Die castings of aluminium and zinc base alloy; steel dies; lead die castings.
Canada Foils Limited	7 Fraser Ave., Toronto	Foils of lead, tin, aluminium, etc.
The Canada Metal Co. Ltd.	721 Eastern Ave., Toronto	Babbitt; bars and ingots of aluminium, brass and bronze, lead and tin; zinc base alloy die castings; castings of aluminium and bronze; pipe, sheets, traps and fittings of lead; solders; type and type metal; alloys of lead, tin and antimony; zinc and copper comes; block tin pipe.
Canadian Hanson & Van Winkle Co. Limited	15 Morrow Ave., Toronto	Anodes of zinc, tin, copper, cadmium and nickel; castings of bronze and lead.
Canadian Metal Forming Corporation, Ltd.	325 Devonshire Road, Walkerville	Chrome-nickel alloy tubing.
Dominion and Monarch Type Foundry	80 Nelson St., Toronto	Type and type metal.
Frankel Brothers Limited	Don Roadway and Eastern Ave., Toronto	Babbitt; bars and ingots of lead, tin and zinc; zinc base alloy die castings; solders, type and type metal.
General Smelting Co. of Canada, Limited	Wilcox St., Hamilton	Bars and ingots of aluminium; zinc and aluminium copper alloys; zinc dust.
Hewitt Metals Corporation, Limited	235 Hanna St. E., Windsor	Babbitt; bars and ingots of aluminium and tin; solders; type and type metal.
Holland Metal Company	7 Boulton Ave., Toronto	Bars and ingots of antimony, copper and tin; solders; type and type metal.
Kester Solder Company of Canada Limited	51 Bruce St., Brantford	Solders.
Leader Die Casting Co.	24 Mercer St., Toronto	Zinc and bronze castings.
Lightning Fastener Co. Ltd.	Niagara St., St. Catharines	Zipper fasteners and component parts.
Metals & Alloys Limited	1 Wiltshire Ave., Toronto	Babbitt; bars and ingots of aluminium, brass, bronze and lead; zinc die casting alloy.
Modern Art Metal Co.	1536b Dundas St., Toronto	Zinc base alloy die castings.

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1940  
(Concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products</u>
<u>ONTARIO (Concluded) -</u>		
Modern Containers Limited	95 Sterling Rd., Toronto and 346 Queen St., Ottawa	Collapsible tubes; moulded tube and bottle caps.
Moore Type Foundry Limited	431 King St. W., Toronto	Type and type metal.
Nawburg Die Castings	29A Birch Ave., Toronto	Aluminium base alloy die castings.
Pressure Castings of Canada Limited	67 Main St. S., Weston	Zinc base alloy die cast- ings.
Rahn Metals Limited	<del>North</del> Bay	Babbitt; aluminium and bronze castings; solders.
Schultz Die Casting Company of Canada, Limited	Wallaceburg	Zinc base alloy die cast- ings.
Spooner Copperine Company Limited	John St., Port Hope	Babbitt; solders.
<u>MANITOBA -</u>		
The Canada Metal Co. Ltd.	301 Chambers St., Winnipeg	Babbitt; bars and ingots of lead; lead pipe; lead sheets; solders; type and type metal.
The Union Metal Company Limited	654 McGee St., Winnipeg	Babbitt; bars and ingots of antimony, die casting alloy, lead, tin and zinc; lead castings; solders; type and type metal; lead fish weights.
<u>BRITISH COLUMBIA -</u>		
Atlas Smelting & Refining Co. Ltd.	321 East First Ave., Vancouver	Babbitt; bars and ingots of aluminium, brass and bronze, lead, tin and zinc; solders.
The Canada Metal Co. Ltd.	1428 Granville St., Vancouver	Babbitt; bars and ingots of lead; pipe, sheets, traps and fittings of lead; solders; type and type metal.
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver	Babbitt; bars and ingots of aluminium, brass and bronze, lead and zinc; type and type metal.







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