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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**  
**1937**

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OTTAWA  
1939

Price 15 cents



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

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ANNUAL INDUSTRY REPORT  
MANUFACTURES OF THE NON-FERROUS METALS GROUP  
THE WHITE METAL ALLOYS INDUSTRY, 1937.

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 metals or their alloys are the principal materials.

Thirty-eight factories were included in this group for 1937 and the value of products was reported at \$9,011,283. This value was the highest ever reported for the industry and exceeded by 30 per cent the \$6,905,041 of 1936, the second best year on record. Of the total output, 67 per cent was from 23 plants in Ontario and 27 per cent from 11 plants in Quebec; the remaining 6 per cent being accounted for by 2 plants in Manitoba and 2 in British Columbia.

Capital employed by these concerns amounted to \$7,155,603 of which 46 per cent or \$3,292,468 represented the value of land, buildings, plant and equipment. The investment in Ontario plants was \$5,364,946, in Quebec \$1,373,712 and in Manitoba and British Columbia \$416,945.

Employment was afforded to a monthly average of 1,222 people, including 263 on salaries and 959 on wages. Salaries for the year amounted to \$445,282 and wages to \$914,934, a total of \$1,360,216. In the previous year 894 persons were employed and the expenditure for salaries and wages amounted to \$1,017,732.

Materials used in manufacturing during 1937 cost \$5,749,842 delivered at the works. Included in this total were 17,245 tons of scrap metal at \$2,068,646; 1,604 tons of pig tin at \$1,798,833; 5,409 tons of pig lead at \$581,089; 1,211 tons of zinc spelter at \$128,423 and 1,177 tons of other metals at \$563,857.

Production included 2,895 tons of solders valued at \$1,618,209; 1,453 tons of babbitt metal at \$641,880; 3,960 tons of antimonial lead at \$461,496; 2,083 tons of type and type metal at \$407,819, and other articles, such as, metal foil, lead sheets, lead traps and fittings, bars and ingots of aluminium, brass, bronze and copper, castings of aluminium, brass, lead, etc.



Table 1 - PRINCIPAL STATISTICS, 1926 - 1937.

Year	Number 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 \$
1926 ....	25	4,241,731	609	806,849	64,631	3,766,648	5,184,090
1927 ....	25	4,295,256	602	702,298	90,420	3,854,979	5,149,092
1928 ....	25	4,673,882	644	759,603	60,055	4,105,167	5,493,360
1929 ....	28	5,988,683	755	929,295	98,958	4,757,366	6,466,168
1930 ....	23	4,612,408	614	734,650	78,147	3,813,569	5,178,583
1931 ....	23	4,507,307	532	679,631	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
% change 1937 from 1936 ...	+0.9	+21.6	+36.7	+35.6	+8.7	+32.0	+30.4

Table 2 - PRINCIPAL STATISTICS, by Provinces, 1936 and 1937.

Year	Number 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>1936</u>							
Quebec .....	11	1,212,462	154	198,251	23,861	1,336,367	1,862,234
Ontario .....	19	4,231,475	700	771,174	67,651	2,704,641	4,628,092
Manitoba ...	2)						
British Columbia .	3)	438,255	40	48,307	9,348	315,451	414,715
CANADA ..	35	5,882,190	894	1,017,732	99,860	4,356,439	6,905,041
<u>1937</u>							
Quebec .....	11	1,375,712	152	210,128	19,165	1,830,224	2,417,910
Ontario .....	23	5,364,946	1,036	1,100,956	81,886	3,554,168	6,058,757
Manitoba ...	2)						
British Columbia .	2)	416,945	34	49,134	7,468	365,450	534,606
CANADA ..	38	7,155,603	1,222	1,360,216	108,519	5,749,842	9,011,283

Table 3 - CAPITAL EMPLOYED, 1936 and 1937.

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
	\$	\$	\$	\$
<u>1936</u>				
Quebec .....	428,449	273,973	510,040	1,212,462
Ontario .....	2,237,720	822,953	1,170,802	4,231,475
Manitoba .....	226,902	98,306	113,045	438,253
British Columbia)				
CANADA .....	2,893,071	1,195,232	1,793,887	5,882,190
<u>1937</u>				
Quebec .....	530,612	286,686	554,414	1,373,712
Ontario .....	2,562,466	981,191	1,821,289	5,364,946
Manitoba .....	199,390	100,023	117,532	416,945
British Columbia)				
CANADA .....	3,292,468	1,369,900	2,493,235	7,155,603

Table 4 - EMPLOYEES, SALARIES AND WAGES, by Provinces, 1936 and 1937.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES AND WAGES
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<u>1936</u>						\$	\$	\$
Quebec .....	41	9	101	3	154	103,132	95,119	198,251
Ontario .....	82	42	403	173	700	231,334	539,840	771,174
Manitoba .....)	10	4	26	...	40	22,467	25,840	48,307
British Columbia.)								
CANADA .....	133	55	530	176	894	356,933	660,799	1,017,732
<u>1937</u>								
Quebec .....	41	10	99	2	152	116,769	93,357	210,126
Ontario .....	128	71	591	246	1,036	303,482	797,474	1,100,956
Manitoba .....)	8	5	21	...	34	25,031	24,103	49,134
British Columbia.)								
CANADA .....	177	86	711	248	1,222	445,282	914,934	1,360,216

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1937.

	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
(a) PRODUCTION -				
Under \$10,000 .....	6	37,212	11	39,556
\$10,000 to \$25,000 .....	6	266,194	30	87,897
\$25,001 to \$50,000 .....	3	73,511	31	122,202
\$50,001 to \$100,000 .....	5	282,565	77	351,422
\$100,001 to \$250,000 .....	8	803,713	80	1,343,033
Over \$250,000 .....	10	5,692,408	993	7,067,173
TOTAL .....	38	7,155,603	1,222	9,011,283



Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1937 - (Concluded)

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(b) EMPLOYEES -				
1 or 2 .....	6	65,066	10	46,871
3 to 10 .....	15	1,113,319	83	1,141,267
11 to 20 .....	8	660,828	111	1,432,433
Over 20 .....	9	5,316,390	1,018	6,390,712
TOTAL .....	38	7,155,603	1,222	9,011,283
(c) CAPITAL -				
Under \$25,000 .....	11	129,471	43	152,614
\$25,001 to \$100,000 .....	12	625,859	94	989,653
\$100,001 to \$500,000 .....	11	2,299,611	437	3,365,893
Over \$500,000 .....	4	4,100,662	648	4,503,123
TOTAL .....	38	7,155,603	1,222	9,011,283

Table 6 - WAGE-EARNERS, BY MONTHS, 1936 and 1937 (on the 15th of each month)

Months	1936			1937		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	458	137	595	633	196	829
February .....	469	158	627	666	209	875
March .....	481	159	640	668	218	886
April .....	496	159	655	672	222	894
May .....	520	142	662	681	223	904
June .....	507	160	667	685	233	918
July .....	517	177	694	682	242	924
August .....	528	173	701	719	261	980
September .....	559	201	760	762	292	1,054
October .....	593	212	805	780	298	1,078
November .....	609	215	824	790	291	1,081
December .....	615	198	813	760	288	1,048
AVERAGE .....	530	176	706	711	248	959

Table 8 - REGULAR HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1937.  
(Overtime not included)

Regular hours worked per week	Percent of wage-earners		Regular hours worked per week	Percent of wage-earners	
	1936	1937		1936	1937
40 hours or less ....	2.3	1.9	51 - 53 hours .....	0.4	0.4
41 - 43 hours .....	0.3	-	54 hours .....	0.2	-
44 hours .....	18.8	15.0	55 hours .....	9.8	11.5
45 - 47 hours .....	22.3	18.1	56 - 59 hours .....	7.2	0.1
48 hours .....	5.0	8.6	60 hours and over ..	9.2	1.4
49 - 50 hours .....	24.5	43.0			

Table 8 - FUEL AND ELECTRICITY USED, 1936 and 1937.

Kinds	Unit of Measure	1936		1937	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian	short ton	737	5,090	649	4,588
Imported	short ton	2,625	18,993	1,841	13,469
Anthracite coal .....	short ton	56	665	76	938

Table 8 - FUEL AND ELECTRICITY USED, 1936 and 1937 - (concluded)

Kinds	Unit of Measure	1 9 3 6		1 9 3 7	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Coke .....	short ton	645	5,771	656	6,589
Gasoline .....	Imp.gal.	10,925	1,623	13,513	2,164
Kerosene .....	Imp.gal.	447	76	515	100
Fuel oil .....	Imp.gal.	190,768	14,777	251,841	20,653
Wood .....	Cord	37	240	4	48
Gas - Manufactured .....	M cu.ft.	31,980	9,229	29,300	8,877
Natural .....	M cu.ft.	5,484	3,355	11,684	6,239
Electricity purchased .....	K. W. H.	3,103,750	40,041	3,877,425	44,854
TOTAL .....	xxx	...	99,860	...	108,519

Table 9 - POWER EQUIPMENT, 1936 and 1937.

	1 9 3 6		1 9 3 7	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Electric motors operated by purchased power - In Use .....	424	3,962	526	4,242
In reserve or idle .....	10	112	13	125
TOTAL .....	434	4,074	539	4,367
Boilers - In Use .....	1	18	1	18
In reserve or idle .....	1	65	1	65

Table 10 - MATERIALS USED, 1936 and 1937.

Materials	1 9 3 6		1 9 3 7	
	Quantity	Cost at works	Quantity	Cost at works
	Lb.	\$	Lb.	\$
METALS (other than scrap) -				
Aluminium .....	1,052,658	215,761	1,186,128	244,175
Antimony, regulus .....	541,398	63,026	573,575	79,936
Cadmium .....	48,949	41,561	65,796	84,993
Copper bars, sheets, etc. ....	57,378	6,450	51,253	7,091
Lead, pig .....	9,624,097	440,242	10,818,139	581,089
Nickel .....	220,631	65,648	318,661	92,354
Nickel alloy sheets .....	7,493	2,572	43,000	30,846
Tin, pig .....	2,940,320	1,420,744	3,207,124	1,798,833
Zinc spelter .....	2,091,999	100,794	2,422,336	128,423
Other metals, except scrap .....	241,072	66,738	114,784	24,444
Antimony ore .....	209,940	10,161	263,462	12,496
SCRAP METALS -				
Aluminium .....	725,964	97,969	1,309,181	166,762
Brass, all kinds .....	1,639,031	89,359	2,785,969	198,972
Copper, all kinds .....	1,831,095	146,151	2,029,900	249,063
Lead, battery plates .....	9,111,992	211,815	9,385,401	305,955
Lead, all other kinds .....	2,542,215	98,162	2,696,633	137,567
Zinc, all kinds .....	590,639	20,580	951,995	32,606
Babbitt .....	2,193,573	198,991	2,225,769	241,040
Solder .....	41,898	3,959	62,468	5,876
Type metal .....	801,056	49,291	1,501,488	64,058
Drosses .....	5,434,670	177,556	4,566,581	166,577
Other scrap, including scrap unspecified by kind .....	9,845,651	452,248	6,913,006	500,170



Table 10 - MATERIALS USED, 1936 and 1937 (concluded).

Materials	1	9	3	6	1	9	3	7
	Quantity		Cost at		Quantity		Cost at	
	lb.		works	\$	lb.		works	\$
Shipping containers .....	...		27,068		...		36,430	
All other materials .....	...		349,593		...		560,086	
TOTAL .....	...		4,356,439		...		5,749,642	

Table 11 - PRODUCTS MADE, 1936 and 1937.

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	6	1	9	3	7
	Quantity		Selling value		Quantity		Selling value	
	Lb.		at works	\$	Lb.		at works	\$
Babbitt metal .....	2,662,706		475,544		2,905,351		641,880	
Bars and ingots - Aluminium(1) ...	669,004		115,713		1,046,626		169,743	
(from scrap) Brass, bronze								
and copper(1) .	2,875,175		261,957		3,490,953		454,526	
Lead - Antimonial	8,265,311		396,430		7,920,364		461,496	
Other ...	4,526,359		193,667		3,037,460		175,142	
Tin .....	259,757		138,180		251,814		149,797	
Zinc and zinc die								
casting alloy .	2,687,067		108,593		2,745,916		134,524	
Other .....	820,317		69,507		...		...	
Castings - Aluminium(1) ...	1,000		425		196,551		34,134	
Brass & bronze(1)	2,173,534		203,964		1,445,580		194,314	
Lead(1) .....	114,251		21,541		110,685		19,832	
Zinc, including								
die castings(1)	1,133,207		337,588		1,364,894		355,163	
Other, including								
nickel and								
cadmium anodes					973,272		234,485	
Lead pipe .....	2,555,031		242,003		2,693,794		295,878	
Lead sheets .....	2,042,382		171,464		1,876,259		181,951	
Lead traps and fittings .....	1,110,341		118,250		606,130		126,387	
Other lead products .....	...		27,412		...		74,186	
Scrap sold .....	544,339		19,701		611,020		34,876	
Solders .....	4,420,555		1,075,694		5,789,677		1,618,209	
Type and type metal .....	3,906,174		377,673		4,166,091		407,819	
Other products(x) .....	...		2,549,735		...		3,186,943	
TOTAL .....	...		6,905,041		...		9,011,283	

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



Table 12 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1937.

Years	BABBITT METAL		SOLDERS OF ALL KINDS		TYPE AND TYPE METAL	
	Selling value		Selling value		Selling value	
	Quantity Pounds	at works \$	Quantity Pounds	at works \$	Quantity Pounds	at works \$
1924 ..	3,086,741	869,007	1,979,797	625,642	1,381,426	278,705
1925 ..	4,366,973	1,063,940	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	309,176
1928 ..	5,485,375	1,089,616	3,361,987	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
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

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1936 and 1937.

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

Items	1 9 3 6			1 9 3 7		
	Quantity		Value	Quantity		Value
			\$			\$
<u>Imports</u>						
Lead, pig and block .....	lb.	58,629	4,004	65,577	5,174	
Lead, old and scrap .....	lb.	2,250	230	13,750	974	
Lead, bars and sheets .....	lb.	36,192	2,117	45,694	3,391	
Lead pipe .....	lb.	24,084	1,818	9,061	1,488	
Lead capsules for bottles .....	-	...	63,964	...	90,644	
Lead shot and bullets .....	lb.	8,066	828	3,327	350	
Tea lead .....	lb.	...	...	1,000	85	
Manufactures of lead, n.o.p. ....	-	...	79,823	...	88,183	
TOTAL LEAD AND ITS PRODUCTS .....		-	...	152,784	...	190,289
Tin in blocks, pigs and bars ..	cwt.	48,468	2,182,419	58,798	3,115,643	
Tinfoil .....	lb.	68,820	26,533	63,683	26,148	
Collapsible tubes .....	-	...	63,829	...	36,830	
TOTAL TIN AND ITS PRODUCTS .....		-	...	2,272,781	...	3,178,621
Zinc spelter .....	cwt.	...	...	20	199	
Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. ..	cwt.	114	1,238	194	2,805	
Zinc strip and sheets, and zinc plates for marine boilers .....	cwt.	57,392	394,327	70,406	574,545	
Zinc dust .....	cwt.	16,198	68,914	14,995	78,508	
Zinc manufactures, n.o.p. ....	-	...	121,863	...	244,349	
TOTAL ZINC AND ITS PRODUCTS .....		-	...	586,342	...	900,406
<u>Alloys, n.o.p. -</u>						
Babbitt metal in blocks, bars, plates and sheets .....	cwt.	339	9,893	439	14,871	
Britannia metal in blocks, pigs and bars .....	cwt.	89	2,939	81	2,855	

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS,  
1936 and 1937 - (concluded)  
(n.o.p. means "not otherwise provided for")

Items	1936				1937			
	Quantity		Value		Quantity		Value	
			\$				\$	
Imports - (concluded)								
Alloys, n.o.p. - (concluded)								
Britannia metal, manufactures of, not plated ..... cwt.	...		4,483		...		5,455	
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 exclusive- ly for alloying purposes in their own factories ..... lb.	140,834		60,382		122,288		96,900	
Metal alloy slugs, cast with diamonds or diamond chips embed- ded 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, (from August 24, 1935) .....	...		23,959		...		71,480	
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire ..... lb.	934,381		240,272		1,432,245		440,556	
Yellow metal in bars, bolts and sheets, for use in the construc- tion or repair of vessels ..... cwt.	75		1,069		140		2,726	
Copper alloys containing boron, for use exclusively as a flux or deoxidizer (from Feb. 26, 1937) -	...		...		...		191	
TOTAL OF ABOVE ALLOYS, N.O.P. ... -	...		342,942		...		635,034	
Type metal in blocks, bars, plates and sheets ..... lb.	4,649		906		253		673	
Type for printing, including chases, quoins, and slugs of all kinds ..... -	...		52,273		...		31,788	
TOTAL TYPE AND TYPE METAL ..... -	...		53,179		...		62,461	
Exports -								
Lead, metallic, contained in ore . cwt.	92,955		287,569		165,296		862,850	
Lead in pigs, refined lead, etc. . tons	160,675	10,113,282			176,570	16,978,147		
TOTAL LEAD AND ITS PRODUCTS ..... -	...	10,400,851			...	17,840,997		
Zinc contained in ore ..... cwt.	391,320		727,253		656,958		2,618,641	
Zinc spelter ..... tons	140,211	8,523,906			134,139	12,733,242		
Zinc dross and ashes ..... cwt.	50,071		63,875		63,938		133,303	
TOTAL ZINC AND ITS PRODUCTS ..... -	...	9,315,034			...	15,491,186		



DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1937.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1937.</u>
<u>QUEBEC</u>		
Atlas Metal and Alloys Co. of Canada, Ltd.	421 St. Henry St., Montreal	Babbitt; solders; type and type metal.
Canada Metal Co. Ltd.	6265 Notre Dame St. E., Montreal	Babbitt; solders; type and type metal; bars, ingots, castings, pipe, sheets, traps and fittings of lead; scrap.
Dominion Smelting and Refining Co.	900 Wellington St., Pte. aux Trembles	Antimonial lead.
Eagle Smelting and Refining Works Lt.	400 Richmond St., Montreal	Babbitt; solders; type and type metal; zinc bars and ingots; bronze castings.
Liberty Smelting Works	269 Prince St., Montreal	Babbitt; solders; bars and ingots of copper, tin and zinc; castings of copper, aluminium, brass and lead.
Magnolia Metal Co. of Canada Ltd.	2028 Manufacturers St., Montreal	Babbitt; solders.
Mayer Sealing Devices Reg'd.	2027 St. Timothee St., Montreal	Lead seals.
Mount Royal Metal Co. Ltd.	1205 Mill St., Montreal	Babbitt; solders; type and type metal; bars and ingots of lead and tin; lead and tin pipe; lead sheets, traps and fittings; dross.
Ouellette, O. J., Co.	1419 Clarke St., Montreal	Type and type composition; lead headed nails.
Riverside Smelting and Refining Steel Co. of Canada Ltd.	301 Nazareth St., Montreal 2320 Notre Dame St. W., Montreal	Babbitt; solders; type metal; bars & ingots Babbitt; dropped and moulded shot. (of lead
<u>ONTARIO</u>		
Addressograph-Multigraph of Canada Ltd.	345 Carlaw Ave., Toronto	Plates and frames for addressographs and multigraphs
Canada Foils Ltd.	7 Fraser Ave., Toronto	Foils of lead, tin, aluminium, etc.
Canada Metal Co. Ltd. and Hoyt Metal Co. of Can. Ltd.	721 Eastern Ave., Toronto	Babbitt; solders; type and type metal; bars and ingots of aluminium, brass, bronze, copper, lead and tin; castings of aluminium, brass, bronze and lead; lead pipe, sheets, traps and fittings; alloys of lead, tin and antimony; copper cames; soldering paste; block tin pipe.
Canada Smelting and Refining Works	Clarence and Hills Sts., London	Copper bars and ingots.
Canadian Hanson and Van Winkle Co. Ltd.	15 Morrow Ave., Toronto	Anodes of cadmium, nickel and zinc; castings of bronze and lead; bars and ingots of tin.



# DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1937 - (Conc.)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1937.</u>
Canadian Metal Forming Corp. Ltd.	Walker Power Bldg., Windsor	Chrome-nickel tubing.
Collapsible Tubes and Containers, Ltd.	95 Sterling Road, Toronto	Collapsible tubes; small aluminium articles and caps.
Dominion Type Foundry	80 Nelson St., Toronto	Type and type metal.
Flash Fasteners of Canada Ltd.	251 Spadina Ave., Toronto	Slide fasteners.
Frankel Bros. Ltd. and National Metal Co. Ltd.	Don Road and Eastern Ave., Toronto	Babbitt; solders; type and type metal; bars and ingots of lead and zinc.
General Smelting Co. of Canada Ltd.	Wilcox St., Hamilton	Bars and ingots of zinc and aluminium.
Hewitt Metals Corp. Ltd.	235 Hanna St. E., Windsor	Babbitt; solders; type and type metal; bars and ingots of lead and tin; drosses.
Holland Metal Co.	7 Boulton Ave., Toronto	Solders; type and type metal; bars and ingots of lead.
Holland Smelting and Refining Co.	Leaside	Solders; type and type metal.
Kester Solder Co. of Canada Ltd.	51 Bruce St., Brantford	Solders.
Lightning Fastener Co. Ltd.	Niagara St., St. Catharines	Slide fasteners and component parts.
Metals and Alloys Ltd.	1 Wiltshire Ave., Toronto	Babbitt; solders; bars and ingots of aluminium, brass, tin and zinc; nickel alloys.
Modern Machine Co. Ltd.	344 Queen St., Ottawa	Collapsible tubes; moulded tube and bottle caps.
Monarch Type Foundry	80 Nelson St., Toronto	Type and type metal.
Moore Type Foundry	431 King St. W., Toronto	Type and type metal.
Rahn Metals, Ltd.	Regina St., North Bay	Babbitt; castings of brass.
Schultz Die Casting Co. of Canada Ltd.	Wallaceburg	Alloy die castings of zinc.
Spooner Copperine Co. Ltd.	John St., Port Hope	Babbitt; solders; scrap.
<u>MANITOBA</u>		
Canada Metal Co. Ltd.	301 Chambers St., Winnipeg	Babbitt; solders; type and type metal; bars and ingots of lead and tin; pipe and sheets of lead.
Union Metal Co. Ltd.	654 McGee St., Winnipeg	Babbitt; solders; type and type metal; bars and ingots of lead, tin and zinc; lead castings, drosses.
<u>BRITISH COLUMBIA</u>		
Canada Metal Co. Ltd.	1428 Granville St., Vancouver	Babbitt; solders; type and type metal; bars and ingots of lead and tin; pipe and sheets of lead.
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver	Babbitt; solders; type and type metal; bars of lead.



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