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

NOT FOR LOAN

### CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

## THE

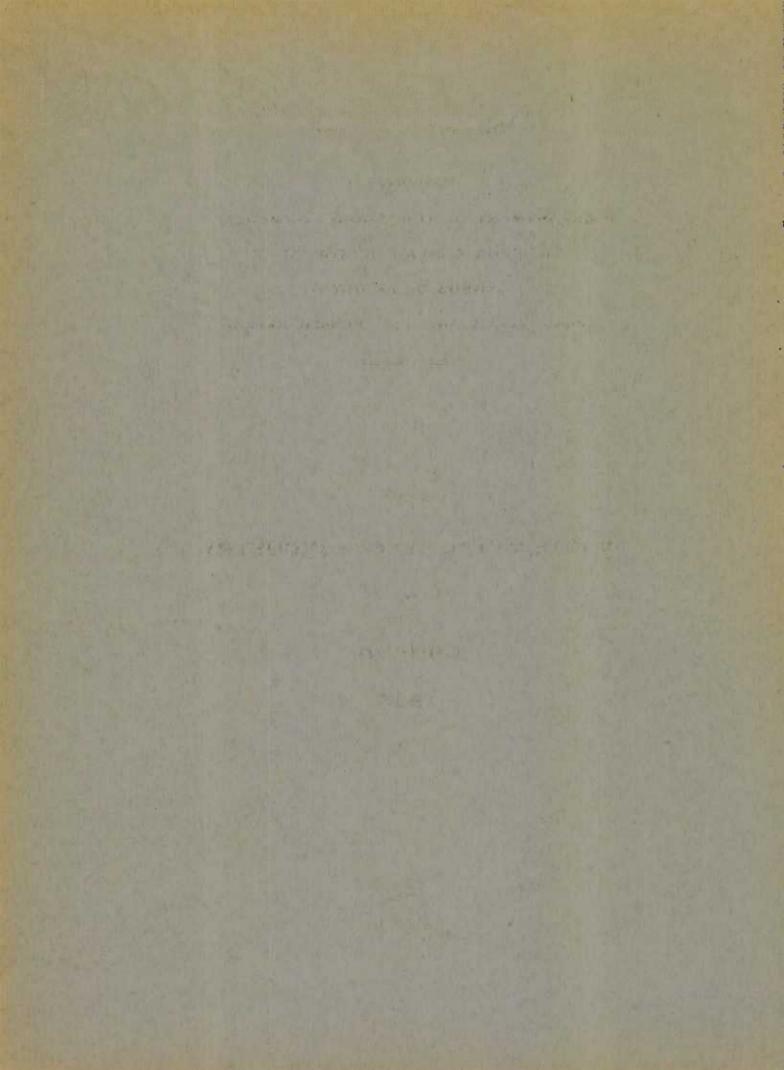
# WHITE METAL ALLOYS INDUSTRY

IN

CANADA

1938





# DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS 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 Group

### THE WHITE METAL ALLOYS INDUSTRY, 1938

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.

Thirty-five factories were included in this group for 1938 and the value of products was reported at \$7,660,254. Although this total was 15 per cent below the 1937 figure of \$9,011,283, it was still higher than for any other year on record.

Of the total output, 71 per cent was from 20 plants in Ontario and 23 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 \$7,197,855 of which 46 per cent or \$3,296,360 represented the value of land, buildings, plant and equipment. The investment in Ontario plants was \$5,496,595; in Quebec \$1,325,669 and in Manitoba and British Columbia \$375,591.

Employment was afforded to a monthly average of 1,252 people, including 253 on salaries and 999 on wages. Salaries for the year amounted to \$468,656 and wages to \$965,433, a total of \$1,434,089. In the previous year 1,222 persons were employed and the expenditure for salaries and wages amounted to \$1,360,216.

Materials used in manufacturing during 1938 cost \$4,506,881 delivered at the works. Included in this total were 15,572 tons of scrap metal at \$1,485,759; 1,378 tons of pig tin at \$1,168,745; 5,937 tons of pig lead at \$505,614; 1,128 tons of zinc spelter at \$114,763 and 1,435 tons of other metals at \$605,327.

Production included 2,516 tons of solders valued at \$1,201,999; 1,115 tons of babbitt metal at \$455,742; 3,822 tons of antimonial lead at \$377,937; 1,817 tons of type and type metal at \$355,636, and other articles, such as, metal foil, lead sheets, lead traps and fittings, bars and ingots of aluminium, brass, bronze and copper, and castings of aluminium, brass, lead, etc.

Table 1 - PRINCIPAL STATISTICS, 1926 - 1938

Year	Number of	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	works	Gross selling value of products at works
1926	25	4,241,731	609	806,843	64,631	3,766,648	5,184,096
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
1938 % change 1938	35	7,197,855	1,252	1,434,089	109,787	4,506,881	7,660,254
from 1937	-	≠ 0.6	<i>f</i> 2.5	7 5.4	≠ 0.9	- 21.6	- 15.0

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, 1937 and 1938

Year	Number of plants	Capital employed	Average number of employees		electricity at works	works	products at works
1937		\$		\$	\$	\$	\$
Quebec	11	1,373,712	152	210,126	19,165	1,830,224	2,417,910
Ontario Manitoba	23 2)	5,364,946	1,036	1,100,956	81,886	3,554,168	6,058,767
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
Quebec	11	1,325,669	157	202,631	18,307	1,321,261	1,780,964
Ontario Manitoba	20 2)	5,496,595		1,179,072		2,902,783	5,401,743
British Columbia	2)	375,591	37	52,386	7,627	282,837	477,547
CANADA	35	7,197,855	1,252	1,434,089	109,787	4,506,881	7,660,254

Table 3 - CAPITAL	EMPLOYED, 1937 and	1938		
	Present	Inventory value	Operating	
	value	of materials and	capital	
	of lands,	finished products	(cash,	TOTAL
Provinces	buildings,	on hand, stock in	bills and	CAPITAL
	machinery,	process, fuel and	accounts	EMPLOYED
	tools, etc.	other supplies	receivable)	
1937	\$	\$	\$	\$
uebec	530,612	288,686	554,414	1,373,712
ntario	2,562,466	981,191	1,821,289	5,364,946
Manitoba)				
British Columbia)	199,390	100,023	117,532	416,945
CANADA	3,292,468	1,369,900	2,493,235	7,155,603
1938				
Quebec	591,909	294,176	439,584	1,325,669
ntario	2,524,703	1,079,867	1,892,025	5,496,595
Manitoba) British Columbia)	179,748	99,818	96,025	375,591
CANADA	3,296,360	1,473,861	2,427,634	7,197,855

Table 4 - EMPLOYEES	s, SAL	ARIES AN	D WAGE	ES, by P	rovinces	s. 1937 and	1938	
Provinces	On Sa	ERAGE NU alaries Female	On W	F FIPLO lages Female	YEES Total	Salaries	Wages	TOTAL SALARIES AND WAGES
1937						\$	\$	\$
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) British Columbia)	8	5	21	000	34	25,031	24,103	49,134
CANADA	177	86	711	248	1,222	445,282	914,934	1,360,216
1938								
Quebec	42	8	106	1	1.57	106,043	96,588	202,631
Ontario	116	72	615	255	1,058	336,587	842,485	1,179,072
Manitoba) British Columbia)	9	6	22	000	37	26,026	26,360	52,386
CANADA	167	86	743	256	1,252	468,656	965,433	1,434,089

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND AND CAPITAL EMPLOYED, 1938

	Number of plants	Capital employed	Number of employees	Selling value of products at works
(a) PRODUCTION		\$		\$
Under \$10,000	3	52,678	5	20,712
\$10,000 to \$25,000	6	224,830	30	93,554
\$25,001 to \$50,000	4	135,131	36	144,755
\$50,001 to \$100,000	7	440,661	57	522,612
\$100,001 to \$250,000	7	1,193,427	127	1,221,379
Over \$250,000	8	5,151,128	997	5,657,242
TOTAL	35	7,197,855	1,252	7,660,254

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND

	CAPITAL EM	PLOYED, 1938	(Concluded)	
	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
(b) EMPLOYEES -				
l or 2	3	52,678	5	20,712
3 to 10	16	1,212,826	96	1,037,207
11 to 20	8	667,793	109	1,036,229
Over 20	8	5,264,558	1,042	5,566,106
TOTAL	35	7,197,855	1,252	7,660,254
(c) CAPITAL -				
Under \$25,000	9	139,425	43	181,124
\$25,001 to \$100,000	12	682,603	97	838,413
\$100,001 to \$500,000	10	1,981,447	386	2,608,422
Over \$500,000	4	4,394,380	726	4,032,295
TOTAL	35	7,197,855	1,252	7,660,254

Table 6 - WAGE-EARNERS, BY MONTH	S, 1937	and 193	8 (on the	ne last	work da	y or e	ach month)
		1937			1 9	38	
Months	Male	Female	TOTAL	L Ma	le Fe	male	TOTAL
					-		

Months	Male	Female	TOTAL	Male	Female	TOTAL
January	633	196	829	753	218	971
February	666	209	875	747	238	985
March	668	218	886	744	232	976
April	672	222	894	752	231	983
May	681	223	904	739	231	970
June	685	233	918	729	252	981
fuly	682	242	924	734	247	981
lugust	719	261	980	741	276	1,017
September	762	292	1,054	753	295	1,048
October	780	298	1,078	755	308	1,063
November	790	291	1,081	758	285	1,043
December	760	288	1,048	738	241	979
AVERAGE	711	248	959	743	256	999

Table 7 - REGULAR HOURS	WORKED PER WEEK,	BY WAGE-EARNERS, 1938	
Regular hours			Percent of
worked per week	wage-carners	worked per week	wage-earners
30 hours or less	0.8	51 - 54	2.8
41 - 43 hours	2.2	55 hours	12.0
44 hours	16.8	56 - 64 hours	11.7
45 - 47 hours	14.8	65 hours and over	6.6
48 hours	2.4		

Table 8 - FUEL AND ELECTRICITY USED, 1937 and 1938

Table d - roll And Editoritio	LII ODED IO	1 9		1 0	3 8
Kinds	Unit of		Cost at	the state of the s	Cost at
KINGS	measure	Quanti ty		Quanti t	
	measure	Quarra c	\$	Witch of I	\$
Bituminous coal - Canadian	short ton	649	. "	80	-
Imported	short ton	1,84]		1,3%	
Anthracite coal	short ton	76		10	
Coke	short ton	656		65	
		13,513	, , , , , , , , , , , , , , , , , , , ,	12,91	
Gasoline	Imp.gel.	515			
Kerosene	Imp.gal.				
Fuel oil	Imp.gel.	251,84]		244,15	
Wood	Cord	29,300			
	M cu. ft.			24,85	
Natural		11,684		11,55	
Electricity purchased	K. W. H.	3,877,425	44,854	3,884,20	06 48,951
TOTAL	XXX	0 0 0	108,519	0 0	. 109,787
Table 9 - POWER EQUIPMENT,	1027 and 102	R			
Table 3 - Found Defort Ment.	ragi and rag	193	3 7	1 9	3 8
	N	of the special control of the second	And the state of t	Number of	Total rated
			norse power		horse power
Electric meters exempted by	numahagad				
Electric motors operated by		526	4,242	550	1 205
power - In use		13	125	13	4,305 185
TOTAL	000000000	539	4,367	563	4,490
Boilers - In use	• • • • • • • • • •	1	18	2	78
In reserve or idl		11	65	1	65
Table 10 - MATERIALS USED,					
Wet and all a		1 9 3 7		1 9	3 8
Materials	Consult.		et et	0	Cost at
	Quant	the same of the sa	rks	Quanti ty	works
REPORT C /other than seem	Lb.		*	Lb.	\$
METALS (other than scrap) -	7 700	3.00	14 300	1 070 700	000 7773
Aluminium		*	14,175	1,272,702	288,751
Antimony, regulus		*	79,936	514,027	68,962
Cadmium		*	34,993	46,305	38,333
Copper		,253	7,091	51,017	6,203
Lead, pig		•		11,875,116	505,614
Nickel		*	2,354	228,938	66,292
Nickel-chrome sheets			30,846	52,000	39,270
Tin, pig			98,833	2,756,326	1,168,745
Zinc spelter			28,423	2,256,403	114,763
Other metals, except scrap			24,444	781,093	139,891
Antimony ore	263	,462	12,496	145,440	7,575
SCRAP METALS -					
Aluminium	1,309	,181 16	36,762	1,630,334	211,922
Brass, all kinds			98,972	2,226,789	143,889
Copper, all kinds			19,063	2,162,192	145,280
Lead, battery plates			05,955	9,459,490	239,602
Lead, all other kinds		•	37,567	2,771,454	108,514
Zine, all kinds			32,606	627,551	15,304
Babbitt			11,040	1,371,027	169,481
	Table 11 Tab	ARTON HULE			Deal Control

Table 10 -	MATERIALS	USED.	1937	and	1938	(Concluded)	)

	1 9	3 7	1 79 3 8		
Materials		Cost at		Cost at	
	Quantity	works	Quanti ty	works	
	Lb.	\$	Lb.	\$	
SCRAP METALS - (Con.)					
Solder	62,468	5,876	63,993	7,388	
Tin	Not avai	lable	57,867	21,106	
Type metal	1,501,488	64,058	1,454,266	64,322	
Drosses	4,566,581	166,577	4,953,143	133,708	
Other scrap, including scrap					
unspecified by kind	6,913,006	500,170	4,369,911	225,243	
Shipping containers	• • •	36,430		26,903	
All other materials		560,086		549,820	
TOTAL	• • •	5,749,842		4,506,881	

Table 11 - PRODUCTS MADE, 1937 and 1938

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.

		1 9	3 7	1 9	3 8
Products		Selling value		Selling value	
		Quantity	at works	Quanti ty	at works
		Lb.	\$	Lb.	\$
Babbitt metal		2,905,351	641,880	2,229,444	455,742
Bars and ingots - (from scrap)	- Aluminium (1) Brass, bronze and		169,743	1,086,030	187,985
	copper (1)		454,526	5,026,667	384,567
	Lead - Antimonial		461,496	7,644,802	377,937
	Other		175,142	2,799,025	133,905
	Tin		149,797	159,971	76,933
	Zinc and zinc die				
	casting alloy	2,745,916	134,524	2,382,531	104,516
Castings -	Aluminium (1)	196,551	34,134	53,925	15,207
	Brass & bronze(1)	1,445,580	194,314	318,678	83,116
	Lead (1)	110,685	19,832	760,613	38,511
	Zinc, including zinc base die				
	castings (1) Other, including nickel and	1,364,894	355,163	1,703,657	370,280
	cadmium anodes	973,278	294,483	725,890	185,620
Lead pipe		2,693,794	295,878	2,318,001	218,167
			181,951	2,521,575	200,848
	Lttings		126,387	610,018	115,192
	cts		74,186		53,129
		611,020	34,876	619,829	23,207
Solders		5,789,677	1,618,209	5,032,225	1,201,999
Type and type metal		4,166,091	407,819	3,635,344	355,636
	x)		3,186,943	• • •	3,077,757
TO	TAL		9,011,283	• • •	7,660,254
the same of the sa					

<sup>(</sup>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.

	BABBITT METAL		SOLDERS (	OF ALL KINDS	TYPE AND	TYPE METAL
Years						
	Quantity	at works	Quanti ty	at works		
	Pounds	\$	Pounds	\$	Pounds	\$
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	1,065,391	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
1938	2,229,444	455,742	5,032,225	1,201,999	3,635,344	355,636

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1937 and 1938

(n.o.p. means "not otherwise provided for") 31 8 Quanti ty Value Quanti ty Value Items \$ \$ Imports Lead, pig and block ..... 1b. 65,577 5,174 56,416 3,235 1b. 974 13,750 Lead, old and scrap ...... 45,694 Lead, bars and sheets ..... 1b. 3,391 54,507 2,948 1,488 lb. 9,061 Lead pipe ..... 28,333 1,671 Lead capsules for bottles ... 90,644 65,029 . . . . . . 3,327 1b. 350 9,023 Lead shot and bullets ..... 634 1b. 85 Tea lead ..... 1,000 Manufactures of lead, n.o.p. 67,228 88.183 TOTAL LEAD AND ITS PRODUCTS. 190,289 140,745 Tin in blocks, pigs and bars 58,798 cwt. 3,115,643 52,752 2,205,449 Tinfoil ..... 1b. 63,683 26,148 19,092 6,593 Collapsible tubes ..... 36,830 45,484 TOTAL TIN AND ITS PRODUCTS ... 3,178,621 2,257,526 Zinc spelter ..... 20 cwt. 199 27 201 Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. cwt. 194 2,805 59 643 Zinc strip and sheets, and zinc plates for marine boilers cwt. 70,406 574,545 67,716 467,114 14,995 Zinc dust ..... cwt. 78,508 13,739 70,294 Zinc slugs or discs imported by manufacturers of electric storage batteries ..... 20,582 Zinc manufactures, n.o.p. ... 244,349 206,948 TOTAL ZINC AND ITS PRODUCTS ... 900,406 765,782 Alloys, n.o.p. -Babbitt metal in blocks, bars, plates and sheets ..... cwt. 439 14,871 7,825 40,869 Britannia metal in blocks, pigs and bars ..... cwt. 81 2,855 63 2,192 Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1937 and 1938 (Concluded)

(n.o.p. means "not otherwise provided for") 1 9 3 7 Quantity Value Items Quantity Value Imports - (Con.) Britannia metal, manufactures of, 5,455 not plated ..... cwt. 4,761 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 122,288 96,900 43,527 30,328 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 Capadian manufactures, (from August 24, 1935) ... 71,480 57,279 Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire ..... 1b. 1,432,245 440,556 595,098 158,137 Yellow metal in bars, bolts and sheets, for use in the construction or repair of vessels ....... cwt. 140 2,726 105 1,581 Copper alloys containing boron, for use exclusively as a flux or deoxidizer (from February 26, 1937) .... 191 159 TOTAL OF ABOVE ALLOYS, N.O.P. ..... 635,034 295,306 Type metal in blocks, bars, plates 255 673 540,959 20,746 Type for printing, including chases, quoins, and slugs of all kinds .... 61,788 56,416 62,461 TOTAL TYPE AND TYPE METAL ..... 77,162 Exports -71,623 Lead, metallic, contained in ore ... cwt. 165,296 862,850 345,394 Lead in pigs, refined lead, etc. ... tons 176,570 16,978,147 154,932 8,637,797 ... 17,840,997 TOTAL LEAD AND ITS PRODUCTS ...... 8,983,191 656,958 2,618,641 Zinc contained in ore ..... cwt. 458,410 1,154,812 Zinc spelter ..... tons 134,139 12,739,242 132,212 8,626,961 23,641 Zinc dross and ashes ..... cwt. 63,938 133,303 34,235 TOTAL ZINC AND ITS PRODUCTS ...... ... 15,491,186 9,816,008

DIRECT	ORY OF FIRMS IN THE WHITE METAL ALL	OYS INDUSTRY, 1938
Names of Firms	Location of Plants	Main Products, 1938
QUEBEC		
Atlas Metal and Alloys Co. of Canada, Ltd.	421 St. Henry St., Montreal	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. Eagle Smelting and Refining Works Ltd.	Marien Ave., Pte. aux Trembles 400 Richmond St., Montreal	Lead bars and ingots.  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 brass, copper, tin and zinc; castings of copper, aluminium, brass and lead.
Magnolia Metal Co. of Canada Ltd. Mayer Sealing Devices Reg'd. Mount Royal Metal Co. Ltd.	2028 Manufacturers St., Montreal 2027 St. Timothee St., Montreal 1201 Mill. St., Montreal	Babbitt; solders; type and type metal.  Lead seals.  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. Riverside Smelting and Refining Steel Co. of Canada Ltd.	270 Vitre E., Montreal 301 Nazareth St., Montreal 2320 Notre Dame St. W., Montreal	Type and type composition; lead headed nails.  Babbitt; type metal; bars and ingots.  Babbitt; dropped and moulded shot. (of lead)
ONTARIO		
Addressograph-Multigraph of Canada Ltd.	349 Carlaw Ave., Toronto	Plates and frames for addressographs and multigraphs.
Canada Foils Ltd. Canada Metal Co. Ltd. and Hoyt Metal Co. of Can. Ltd.	7 Fraser Ave., Toronto 721 Eastern Ave., Toronto	Foils of lead, tin, aluminium, etc. 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.
Consdian Hongan and Wan Winkla	15 Marrow Arto Toronto	Anadas of cadmirm nickel and connor esstings

Canadian Hanson and Van Winkle 15 Morrow Ave., Toronto Co. Ltd.

Anodes of cadmium, nickel and copper, castings of bronze; bars and ingots of tin and zinc.

# DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1938 (Concluded)

Names of Firms
Canadian Metal Forming Corp. Ltd.
Collapsible Tubes and Containers,
Ltd.
Frankel Bros. Ltd. and National
Metal Co. Ltd.
General Smelting Co. of Canada Ltd.
Hewitt Metals Corp. Ltd.
The state of the s

Holland Metal Co.

Kester Solder Co. of Canada Ltd. Lightning Fastener Co. Ltd. Metals and Alloys Ltd.

Modern Machine Co. Ltd.
Monarch Type Foundry
Moore Type Foundry
Pressure Castings of Canada Ltd.
Rahn Metals, Ltd.
Schultz Die Casting Co. of Canada Ltd.
Spooner Copperine Co. Ltd.

MANITOBA Canada Metal Co. Ltd.

Union Metal Co. Ltd.

BRITISH COLUMBIA
Canada Metal Co. Ltd.

Great Western Smelting Co. Ltd.

Location of Plants
325 Devonshire Rd., Windsor
95 Sterling Road, Toronto

Don Road and Eastern Ave., Toronto Wilcox St., Hamilton 235 Hanna St. E., Windsor

7 Boulton Ave., Toronto

51 Bruce St., Brantford Niagara St., St. Catharines 1 Wiltshire Ave., Toronto

344 Queen St., Ottawa 80 Nelson St., Toronto 431 King St. W., Toronto 67 Main St., Weston, Ont. Regina St., North Bay Wallaceburg

John St., Port Hope

301 Chambers St., Winnipeg

654 McGee St., Winnipeg

1428 Granville St., Vancouver

310 Prior St., Vancouver

Main Products, 1938

Chrome-nickel tubing.

Collapsible tubes; small aluminium articles and caps.

Babbitt; solders; type and type metal; bars and ingots of lead and zinc.

Bars and ingots of zinc and aluminium.

Babbitt; solders; type and type metal; bars and ingots of lead and tin; drosses.

Solders; type and type metal; bars and ingots of lead.

Solders.

Slide fasteners and component parts.

Babbitt; solders; bars and ingots of aluminium, brass, tin and zinc.

Collapsible tubes; moulded tube and bottle caps.

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Type and type metal.

Type and type metal.

Zinc base die castings.

Babbitt; castings of brass and aluminium; solders.
Zinc base die castings.

Babbitt; solders.

Babbitt; solders; type and type metal; bars and ingots of lead and tin; pipe and sheets of lead. Babbitt; solders; type and type metal; bars and ingots of lead, tin and zinc; lead castings, drosses.

Babbitt; solders; type and type metal; bars and ingots of lead and tin; pipe and sheets of lead; miscellaneous lead products.
Babbitt; solders; type and type metal; bars of lead.

