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

THE
WHITE METAL ALLOYS INDUSTRY
IN
CANADA
1936



OTTAWA
1938

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, 1936.

Statistics given in this report cover the operations of firms in Canada which were engaged chiefly in (a) the manufacture of white metal alloys such as babbitt metal, solders and type metal; (b) the refining of scrap to recover white metals such as zinc, tin, lead, etc.; and (c) the manufacture of such products as lead bars, sheet and pipe, and antimonial lead, collapsible tubes, metal foil, etc. in which the white metals or their alloys are the chief constituent materials.

Thirty-five factories were included in this group for 1936 and the value of products was reported at \$6,905,041. This value was the highest ever reported for the industry and exceeded the 1935 total by 12 per cent. Of the total output, 67 per cent was from 19 plants in Ontario and 27 per cent from 11 factories in Quebec; the remaining 6 per cent was accounted for by 2 plants in Manitoba and 3 in British Columbia.

Capital employed by these concerns amounted to \$5,882,190 of which 50 per cent or \$2,893,071 represented the value of land, buildings, plant and equipment. The investment in Ontario's plants was \$4,231,475, in Quebec \$1,212,462 and in Manitoba and British Columbia, \$438,253.

Employment was given to an average of 894 workers in 1936 including 188 on salaries and 706 on wages. Salaries for the year amounted to \$356,933 and wages to \$660,799, a total of \$1,017,732. In the previous year 797 persons were employed and their earnings totalled \$911,644.

Materials used in manufacturing during 1936 cost \$4,356,439 delivered at the works. Included in this total were 1,470 tons of pig tin worth \$1,420,744; 4,812 tons of pig lead at \$440,242; 1,045 tons of zinc spelter at \$100,794; 1,083 tons of other metals (except scrap) at \$461,756 and 17,001 tons of scrap of all kinds at \$1,448,112.

Production of solders of all kinds amounted to 2,210 tons valued at \$1,075,694 at factory prices; type metal totalled 1,953 tons at \$377,673; babbitt metal totalled 1,331 tons at \$475,544; and miscellaneous lead products such as bars, ingots, castings, pipe, traps and fittings, and antimonial lead amounted to 8,278 tons worth \$1,093,596.

Table 1 - PRINCIPAL STATISTICS, 1926 - 1936.

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	5,184,096
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

Table 2 - PRINCIPAL STATISTICS, by Provinces, 1935 and 1936.

	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>1935</u>							
Quebec	11	1,124,751	144	189,872	15,359	1,299,352	1,764,161
Ontario	17	3,943,198	611	668,673	60,270	2,422,345	4,055,290
Manitoba ...	2)						
British Columbia	)	453,771	42	53,099	7,874	271,413	362,951
	2)						
CANADA	32	5,521,720	797	911,644	83,503	3,993,110	6,182,402
<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	)	438,253	40	48,307	8,548	315,431	414,715
	3)						
CANADA	35	5,882,190	894	1,017,732	99,860	4,356,439	6,905,041

Table 3 - CAPITAL EMPLOYED, 1935 and 1936.

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>1935</u>				
Quebec	451,707	235,631	437,413	1,124,751
Ontario	2,220,773	841,905	880,520	3,943,198
Manitoba	221,862	136,719	95,190	453,771
British Columbia)				
CANADA	2,894,342	1,214,255	1,413,123	5,521,720

Table 3 - CAPITAL EMPLOYED, 1935 and 1936 - (concluded)

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
1936	\$	\$	\$	\$
Quebec	428,449	275,975	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

Table 4 - EMPLOYEES, SALARIES AND WAGES, by Provinces, 1935 and 1936.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL	
	On Salaries		On Wages		Total			SALARIES	AND WAGES
	Male	Female	Male	Female					
1935						\$	\$	\$	
Quebec	39	6	95	4	144	96,304	95,568	189,872	
Ontario	76	40	343	152	611	215,628	453,045	668,673	
Manitoba	8	6	28	...	42	24,987	28,112	53,099	
British Columbia.)									
CANADA	123	52	466	156	797	336,919	574,725	911,644	
1936									
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	

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1936.

	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
(a) PRODUCTION -				
Under \$10,000	7	116,074	18	32,227
\$10,000 to \$25,000	3	98,455	13	35,872
\$25,001 to \$50,000	5	276,696	43	186,306
\$50,001 to \$100,000	3	66,265	21	207,532
\$100,001 to \$250,000	9	1,167,732	135	1,362,483
Over \$250,000	8	4,156,978	664	5,080,621
TOTAL	35	5,882,190	894	6,905,041
(b) EMPLOYEES -				
1 or 2	6	50,943	10	35,311
3 to 10	15	1,011,996	93	1,031,912
11 to 20	6	702,227	84	925,142
Over 20	8	4,117,024	707	4,912,676
TOTAL	35	5,882,190	894	6,905,041

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1936 - (concluded)

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(c) CAPITAL -				
Under \$25,000	10	119,599	36	130,445
\$25,001 to \$100,000	11	511,026	83	827,386
\$100,001 to \$500,000	10	1,869,115	317	2,359,333
\$500,001 to \$1,000,000 ..	4	3,382,450	458	3,587,977
TOTAL	35	5,882,190	894	6,905,041

Table 6 - WAGE-EARNERS, BY MONTHS, 1935 and 1936 (on the 15th of each month)

Months	1 9 3 5			1 9 3 6		
	Male	Female	TOTAL	Male	Female	TOTAL
January	435	138	573	458	137	595
February	437	143	580	469	158	627
March	448	141	589	481	159	640
April	467	144	611	496	159	655
May	467	135	602	520	142	662
June	463	141	604	507	160	667
July	443	132	575	517	177	694
August	456	151	607	528	173	701
September	462	169	631	559	201	760
October	508	194	702	593	212	805
November	512	205	717	609	215	824
December	480	167	647	615	198	813
AVERAGE	466	156	622	530	176	706

Table 7 - TOTAL OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT, ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1936 (Overtime not included)

NOTE: These figures are totals of data given on individual reports for month of highest employment. Since the month of highest employment was not the same for every plant the total given here is greater than the highest monthly total in Table 6.

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less	21	51 - 53 hours	4
41 - 43 hours	3	54 hours	2
44 hours	169	55 hours	88
45 - 47 hours	201	56 - 59 hours	65
48 hours	45	60 hours and over ...	83
49 - 50 hours	221	TOTAL	902

Table 8 - FUEL AND ELECTRICITY USED, 1935 and 1936.

Kinds	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian short ton		253	1,777	737	5,090
Imported short ton		1,998	14,063	2,625	18,993
Anthracite coal	short ton	288	2,175	56	665
Coke	short ton	770	6,272	645	5,771

Table 8 - FUEL AND ELECTRICITY USED, 1935 and 1936 - (concluded)

Kinda	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Gasoline	Imp.gal.	6,600	1,022	10,925	1,623
Kerosene	Imp.gal.	451	78	447	76
Fuel oil	Imp.gal.	198,396	14,731	190,768	14,777
Wood	cord	34	204	37	240
Gas - Manufactured	M cu.ft.	23,751	6,677	31,980	9,229
Natural	M cu.ft.	3,118	1,811	5,484	3,355
Electricity purchased	K. W. H.	2,443,020	34,693	3,103,750	40,041
TOTAL	xxx	...	83,503	...	99,860

Table 9 - POWER EQUIPMENT, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Electric motors operated by purchased power - In Use	350	3,348	424	3,962
In reserve or idle	7	250	10	112
TOTAL	357	3,598	434	4,074
Boilers - In Use .....	...	...	1	18
In reserve or idle	3	130	1	65

Table 10 - MATERIALS USED, 1935 and 1936.

Materials	1 9 3 5		1 9 3 6	
	Quantity	Cost at works	Quantity	Cost at works
	Lb.	\$	Lb.	\$
METALS (other than scrap)				
Aluminium sheets	810,489	180,525	1,052,658	215,761
Antimony, regulus	595,733	73,048	541,398	63,026
Cadmium	72,104	60,716	48,949	41,561
Copper bars, sheets, etc.	130,404	11,664	57,378	8,450
Lead, pig	8,209,962	320,478	9,624,097	440,242
Nickel	189,943	57,733	220,631	65,648
Tin, pig	2,898,077	1,286,870	2,940,320	1,420,744
Zinc spelter	1,528,054	79,798	2,091,999	100,794
Other metals (except scrap)	180,931	11,213	248,565	69,310
SCRAP METALS -				
Brass, all kinds	2,327,959	142,594	1,639,031	89,359
Copper, all kinds	1,571,355	116,212	1,831,095	146,151
Lead battery plates	9,114,254	171,097	9,111,992	211,815
Lead, all other	2,809,926	94,557	2,542,215	98,162
Zinc, all kinds	704,980	22,976	590,639	20,580
Babbitt	2,207,199	454,439	2,193,573	198,991
Solder	94,532	15,762	41,898	3,959
Type metal	1,075,032	51,236	801,056	49,291
Drosses	3,700,594	83,289	5,434,670	177,556
Other scrap	7,433,025	343,653	9,845,651	452,248
Shipping containers .....	...	10,899	...	27,068
All other materials and supplies .	...	404,351	...	457,723
TOTAL .....	...	3,993,110	...	4,356,439

Table 11 - PRODUCTS MADE, 1935 and 1936.

Products	1935		1936	
	Quantity	Selling value at works	Quantity	Selling value at works
	Lb.	\$	Lb.	\$
Babbitt metal	2,418,522	558,991	2,662,706	475,544
Bars and ingots of brass, bronze aluminium	1,117,014	117,926	1,602,671	198,253
Castings of brass, bronze and aluminium	2,633,479	228,874	2,174,534	204,389
Castings, other (chiefly nickel and cadmium anodes and zinc alloy die castings	744,482	266,547	1,133,207	337,588
Lead - Bars and ingots (except antimonial lead)	1,749,941	77,925	2,199,907	110,396
Castings	97,911	13,951	114,251	21,541
Pipe	2,374,497	173,097	2,555,031	242,003
Sheet	1,696,143	128,614	2,042,382	171,464
Traps and fittings	525,404	114,253	1,110,341	118,250
Antimonial lead	8,253,530	340,231	8,265,311	396,430
Other	653,400	80,676	274,743	33,512
Recovered Metals -				
Aluminium .....	...	...	245,000	41,916
Copper	1,538,997	116,124	2,226,508	179,901
Lead	1,461,982	52,396	2,326,452	83,271
Tin and tin pipe	184,421	119,042	259,757	138,180
Zinc	1,799,494	67,569	2,687,067	108,593
Other	810,612	66,359	770,317	29,507
Scrap sold	448,591	22,827	544,339	19,701
Solders of all kinds	3,944,727	1,011,679	4,420,555	1,075,694
Type and Type metal	4,346,228	385,991	3,906,174	377,673
Other products (x) .....	...	2,239,330	...	2,547,335
TOTAL .....	...	6,182,402	...	6,905,041

(x) Includes data for foils, collapsible tubes, slide fasteners, drop and moulded shot, moulded bottle caps, nickel alloys and other products which were reported by only one or two companies in this industry, and for which the production figures cannot be shown separately.

Table 12 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1936.

Years	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
	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	1,063,391	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

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS,
1935 and 1936.

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

Items	1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value
		\$		\$
<u>Imports</u>				
Lead, pig and block lb.	98,473	4,875	58,629	4,004
Lead, old and scrap lb.	10,390	597	2,250	230
Lead, bars and sheets lb.	69,794	2,959	36,192	2,117
Lead pipe lb.	4,022	301	24,084	1,818
Lead capsules for bottles .. -	...	44,965	...	63,964
Lead shot and bullets lb.	9,824	696	8,066	828
Tea lead lb.	3,410	252	...	...
Manufactures of lead, n.o.p. -	...	70,988	...	79,823
TOTAL LEAD AND ITS PRODUCTS. -	...	125,633	...	152,784
Tin in blocks, pigs and bars lb.	4,677,000	2,323,177	4,846,800	2,182,419
Tinfoil lb.	45,245	19,756	68,820	26,533
Collapsible tubes -	...	44,335	...	63,829
TOTAL TIN AND ITS PRODUCTS -	...	2,387,268	...	2,272,781
Zinc spelter lb.	115,300	4,254	...	...
Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. lb.	18,100	2,111	11,400	1,238
Zinc strip and sheets, and zinc plates for marine boilers lb.	5,579,000	349,013	5,739,200	394,327
Zinc dust lb.	1,648,100	80,837	1,619,800	68,914
Zinc manufactures, n.o.p. -	...	128,536	...	121,863
TOTAL ZINC AND ITS PRODUCTS -	...	564,751	...	586,342
<u>Alloys, n.o.p. -</u>				
Babbitt metal in blocks, bars, plates and sheets . lb.	72,300	12,639	33,900	9,893
Britannia metal in blocks, pigs and bars lb.	6,000	1,948	8,900	2,939
Britannia metal, manufactures of, not plated -	...	4,681	...	4,428
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.	36,007	22,454	140,834	60,382

Table 13. - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS,
1935 and 1936 - (concluded)

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

Items	1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value
		\$		\$
Imports - (concluded)				
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 (from August 24, 1935) .....	...	5,109	...	23,959
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire. .. lb.	819,164	213,812	934,381	240,272
Yellow metal in bars, bolts and sheets, for use in the construction or repair of vessels	lb. 6,700	1,032	7,600	1,069
TOTAL OF ABOVE ALLOYS, N.O.P. -	...	261,675	...	342,942
Type metal in blocks, bars, plates and sheets	lb. 1,888	516	4,649	906
Type for printing, including chases, quoins, and slugs of all kinds .....	...	52,357	...	52,273
TOTAL TYPE AND TYPE METAL ..	-	52,873	...	53,179
Exports -				
Lead, metallic, contained in ore.....	lb. 11,305,100	289,955	9,395,500	287,569
Lead in pigs, refined lead, etc.	tons 141,457	6,871,469	160,675	10,113,282
TOTAL LEAD AND ITS PRODUCTS. -	...	7,161,424	...	10,400,851
Zinc contained in ore	lb. 19,600,200	337,732	39,132,000	727,253
Zinc spelter	tons 135,459	7,809,691	140,211	8,523,906
Zinc dross and ashes	lb. 6,267,500	63,719	5,007,100	63,875
TOTAL ZINC AND ITS PRODUCTS. -	...	8,211,142	...	9,315,034

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1936.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products in 1936.</u>
<u>QUEBEC</u> --		
Atlas Metal & Alloys Co. (Canada) Ltd.	421 St. Henry St., Montreal	Babbitt; solders; type and type metal; lead bars and ingots.
Colonial Fastener Company Ltd.	2210 Parthenais St., Montreal	Slide fasteners.
Dominion Smelting and Refining Company.	Sherbrooke & Marion Sts., Montreal	Antimonial lead.
Eagle Smelting and Refining Works Limited.	400 Richmond St., Montreal	Babbitt; solders; type and type metal; lead, tin and zinc from scrap
Liberty Smelting Works	271 Prince St., Montreal.	Babbitt; solders; type and type metal; bronze and aluminium bars and ingots; tin, zinc, lead aluminium and copper from scrap; brass castings.
Magnolia Metal Co. of Canada, Ltd.	2028 Manufacturers St., Montreal	Babbitt; solders; dross.
Mount Royal Metal Company, Ltd.	1205 Mill St., Montreal	Babbitt; solders; type and type metal; lead bars and ingots; sheet lead; lead traps and fittings; cane lead; lead pipe; antimonial lead; tin and tin pipe; dross.
Quellette, O. J., & Co. Robertson Lead Manufacturing Co. Ltd.	1419 Clarke St., Montreal 6251 Lafontaine St., E., Montreal	Type and type composition Babbitt; solders; type and type metal; lead castings, bars and ingots, sheets, pipe, traps and fittings; antimonial lead; lead wool; copper, lead, tin and antimony from scrap.
Steel Company of Canada, Ltd., The	2320 Notre Dame St. W., Montreal	Babbitt; dropped and moulded shot.
Typographic Craftsmen, Ltd.	455 Craig St. W., Montreal	Type and composition.
<u>ONTARIO</u>		
Canada Foils, Limited.	7 Fraser Ave., Toronto	Foils of lead, tin, aluminium, etc.
Canada Metal Co. Ltd., and Hoyt Metal Co. of Canada, Ltd.	721 Eastern Ave., Toronto	Babbitt; solders; type and type metal; antimonial Lead; lead bars and ingots, castings, pipe, sheets, traps and fittings, etc.; brass, bronze and aluminium ingots; bronze, aluminium and brass castings; lead, tin and antimony alloys; zinc and ...

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1936 -(continued)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products in 1936.</u>
<u>ONTARIO</u> - (concluded)		
Canadian Hanson & Van Winkle Company Ltd.	15 Morrow Ave., Toronto	copper comes, bar tin; block tin pipe; soldering paste.
Collapsible Tubes and Containers, Ltd.	95 Sterling Rd., Toronto	Anodes of nickel, cadmium, zinc, tin and Monel; brass, bronze and copper castings.
Flash Fasteners of Canada Ltd.	251 Spadina, Toronto	Collapsible tubes; small aluminium articles.
Dominion Type Foundry	99a King St. W., Toronto	Slide fasteners.
Frankel Brothers, Ltd. and National Metal Co. Ltd.	Don Rd. and Eastern Ave., Toronto	Type and type metal.
General Smelting Co. of Canada Ltd.	Wilcox St., Hamilton	Babbitt; solders; type and type metal, antimonial lead; lead bars and ingots; lead and zinc from scrap.
Hewitt Metals Corp. Ltd.	265 Hanna St. E., Windsor	Zinc and aluminium recovered from scrap.
Holland Metal Company	7 Bolton Ave., Toronto	Babbitt, lead bars and ingots; antimonial lead; block, bar and pig tin; solders; type and type metal.
Kester Solder Co. of Canada, Ltd.	51 Bruce St., Brantford	Solders, type and type metal; dross; lead bars and ingots.
Lightning Fastener Co. Ltd.	Davidson St., St. Catharines	Solders.
Metals and Alloys Ltd.	1 Wiltshire Ave., Toronto	Slide fasteners and component parts.
Modern Machine Company Ltd.	344 Queen St., Ottawa	Babbitt; bars and ingots of lead, tin, brass, zinc, bronze and aluminium; solders; nickel alloys.
Monarch Type Foundry	80 Nelson St., Toronto	Collapsible tubes; moulded tube and bottle caps.
Moore Type Foundry	88 Richmond St. W., Toronto	Type and type metal.
Rahn Metals, Ltd.	Regina St., North Bay	Type and type metal.
Schultz Die Casting Co. of Canada, Ltd.	Wallaceburg	Babbitt; brass and bronze castings.
Spooner Copperine Co. Ltd.,	Port Hope	Zinc alloy die castings.
<u>MANITOBA</u> -		
Canada Metal Co., Ltd., The	301 Chambers St. Winnipeg	Solders.
Union Metal Co. Ltd., The	654 McGee St., Winnipeg	Babbitt; solders; type and type metal; lead bars and ingots, pipe, sheet, etc. antimonial lead; bar tin.
		Babbitt; solders; type and type metal; antimonial lead; lead bars and ingots; cream can caps.

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1936 - (concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products in 1936.</u>
<u>BRITISH COLUMBIA</u>		
Canada Metal Co. Ltd.,	1428 Granville St., Vancouver	Babbitt; solders; type and type metal; lead bars; and ingots, sheet, pipe, etc.; antimonial lead; bar tin.
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver	Babbitt; solders; type and type metal; lead bars; antimonial lead; bar tin.
Northern Metals & Engineering Co.	1539 West 3rd Ave., Vancouver	Babbitt; lead and tin from scrap.

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