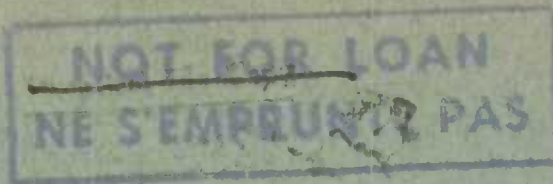


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH

THE
WHITE METAL ALLOYS INDUSTRY
IN
CANADA
1935

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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, 1935.

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 lead, tin, zinc or other white metal products such as lead bars, sheet and pipe; antimonial lead; collapsible tubes; metal foil and similar commodities.

Thirty-two factories were included in this group for 1935 and the value of products was reported at \$6,182,402. This value was the highest for the industry since the record of \$6,466,168 was established in 1929 and exceeded the 1934 total by 18 per cent. Of the total output 65.6 per cent was from 17 plants in Ontario and 28.5 per cent from 11 factories in Quebec; the remainder of approximately 6 per cent was accounted for by 2 plants in Manitoba and 2 in British Columbia.

Capital employed by the concerns in this group amounted to \$5,521,720 of which 55 per cent or \$2,894,342 represented the value of land, buildings, plant and equipment. The investment in Ontario's plants was \$3,943,198, in Quebec, \$1,124,751, and in Manitoba and British Columbia, \$453,771.

Employment was given to an average of 797 workers in 1935 including 175 on salaries and 622 on wages. Salaries for the year amounted to \$336,919 and wages to \$574,725, a total of \$911,644. In the previous year 790 persons were employed and \$840,698 was paid in salaries and wages.

Materials used in manufacturing during 1935 cost \$3,993,110 delivered at the works. Included in this total were 1,449 tons of pig tin worth \$1,286,870; 4,105 tons of pig lead at \$320,478; 471 tons of zinc spelter at \$39,899; 990 tons of other metals at \$394,899 and 15,812 tons of scrap valued at \$1,535,714.

Production of solders of all kinds amounted to 1,972 tons valued at \$1,011,679 at factory prices; type metal to 2,173 tons at \$385,991; babbitt metal to 1,209 tons at \$558,991 and miscellaneous lead products such as bars, ingots, castings, pipe, antimonial lead, traps and fittings to 7,665 tons at \$928,747.

Table 1 - PRINCIPAL STATISTICS, TEN YEARS, 1926 - 1935.

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	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

Table 2 - PRINCIPAL STATISTICS, by Provinces, 1934 and 1935.

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works
<u>1934</u>							
Quebec	12	1,061,209	147	183,841	16,080	989,420	1,596,671
Ontario ...	15	3,295,046	609	611,799	56,035	1,924,287	3,325,569
Manitoba ..	2)						
British Columbia.	)	491,659	34	45,058	6,026	224,612	304,807
CANADA.	31	4,847,914	790	840,698	78,141	3,138,319	5,227,047
<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
CANADA .	32	5,521,720	797	911,644	83,503	3,993,110	6,182,402

Table 3 - CAPITAL EMPLOYED, 1934 and 1935.

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>1934</u>				
Quebec	400,168	260,209	400,832	1,061,209
Ontario	1,778,664	688,949	827,433	3,295,046
Manitoba				
British Columbia.)	230,405	134,233	127,021	491,659
CANADA	2,409,237	1,083,391	1,355,286	4,847,914

Table 3 - CAPITAL EMPLOYED, 1934 and 1935 (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
<u>1 9 3 5</u>				
Quebec	451,707	235,631	437,413	1,124,751
Ontario	2,220,773	841,905	880,520	3,943,198
Manitoba)			
British Columbia	221,862	136,719	95,190	453,771
CANADA	2,894,342	1,214,255	1,413,123	5,521,720

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1934 and 1935.

AVERAGE NUMBER OF EMPLOYEES								
Provinces	On Salaries		On Wages		TOTAL	Salaries	Wages	TOTAL SALARIES AND WAGES
	Male	Female	Male	Female				
						\$	\$	\$
<u>1 9 3 4</u>								
Quebec	34	6	101	6	147	85,203	98,638	183,841
Ontario	73	40	362	134	609	199,864	411,935	611,799
Manitoba)							
British Columbia ..)	7	5	22	...	34	24,699	20,359	45,058
CANADA	114	51	485	140	790	309,766	530,932	840,698
<u>1 9 3 5</u>								
Quebec	39	6	95	4	144	96,304	93,568	189,872
Ontario	76	40	343	152	611	215,628	453,045	668,673
Manitoba)							
British Columbia ..)	8	6	28	...	42	24,987	28,112	53,099
CANADA	123	52	466	156	797	336,919	574,725	911,644

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934 and 1935.

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
<u>(a) PRODUCTION -</u>				
Under \$10,000	3	25,780	7	15,102
\$10,000 to \$25,000	5	213,975	24	69,902
\$25,001 to \$50,000	7	331,044	54	272,186
\$50,001 to \$100,000	4	128,788	28	323,971
\$100,001 to \$250,000	6	1,016,549	162	942,304
Over \$250,000	7	3,805,584	522	4,558,937
TOTAL	32	5,521,720	797	6,182,402
<u>(b) EMPLOYEES -</u>				
1 or 2	3	35,201	6	23,138
3 to 10	16	956,553	95	891,689
11 to 20	5	661,992	71	683,039
Over 20	8	3,867,974	625	4,584,536
TOTAL	32	5,521,720	797	6,182,402

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934 and 1935. (concluded)

	Number of plants	Capital employed	Number of employees	Selling value of products at works
(c) CAPITAL -				
Under \$25,000	10	116,223	44	285,969
\$25,001 to \$100,000	9	500,374	81	454,173
\$100,001 to \$500,000	10	2,074,404	354	2,528,497
\$500,001 to \$1,000,000	3	2,830,719	318	2,913,763
TOTAL	32	5,521,720	797	6,182,402

Table 6 - WAGE-EARNERS, BY MONTHS, 1934 and 1935 (on the 15th of each month)

Months	1	9	3	4					
	Male	Female	TOTAL		Male	Female	TOTAL		
January	459	130	589		435	138	573		
February	469	131	600		437	143	580		
March	461	126	587		448	141	589		
April	482	119	601		467	144	611		
May	487	122	609		467	135	602		
June	477	130	607		463	141	604		
July	500	136	636		443	132	575		
August	481	144	625		456	151	607		
September	478	171	649		462	169	631		
October	479	153	632		508	194	702		
November	512	164	676		512	205	717		
December	501	153	654		480	167	647		
AVERAGE	485	140	625		466	156	622		

Table 7 - FUEL AND ELECTRICITY USED, 1934 and 1935.

		1904 and 1905				1906 and 1907			
Kinds	Unit of measure	Quantity		Cost at works		Quantity		Cost at works	
				\$				\$	
Bituminous coal - Canadian	short ton	223		1,506		253		1,777	
	Imported	short ton	1,866		11,984	1,998		14,063	
Anthracite coal	short ton	321		2,330		288		2,175	
Coke	short ton	716		5,857		770		6,272	
Gasoline	Imp. gal.	8,265		1,329		6,600		1,022	
Kerosene	Imp. gal.	312		54		451		78	
Fuel oil	Imp. gal.	174,255		13,346		198,396		14,731	
Wood	cord	33		244		34		204	
Gas - Manufactured	M cu. ft.	5,424		5,792		23,751		6,677	
	Natural	M cu. ft.	2,205		916	3,118		1,811	
Electricity purchased	K. W. H.	2,477,205		34,783		2,443,020		34,693	
TOTAL	xxx	...		78,141		...		83,503	

Table 8 - POWER EQUIPMENT, 1934 and 1935.

	1 9 3 4				1 9 3 5			
	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	
In reserve or idle	370		3,518		7		250	
TOTAL	370		3,518		357		3,598	

Table 8 - POWER EQUIPMENT, 1934 and 1935. (concluded)

	1	9	3	4	1	9	3	5
	Number of		Total rated		Number of		Total rated	
	units		horse power		units		horse power	
Boilers - In use .....					...		...
In reserve or idle	5		130		5		130	

Table 9 - MATERIALS USED, 1934 and 1935.

Materials	1	9	3	4	1	9	3	5
	Quantity		Cost at		Quantity		Cost at	
			works				works	
METALS (other than scrap) -	lb.		\$		lb.		\$	
Aluminium sheets	866,696		165,096		810,489		180,525	
Antimony, regulus	385,052		32,212		595,733		73,048	
Cadmium	(a)		(a)		72,104		60,716	
Copper bars, sheets, etc.	38,764		3,173		130,404		11,664	
Lead, pig	8,759,089		297,068		8,209,962		320,478	
Nickel	165,190		42,163		189,943		57,733	
Tin, pig	2,455,847		1,297,448		2,898,077		1,286,870	
Zinc, spelter	1,100,791		59,075		941,935		39,899	
Other metals (except scrap)	70,882		15,416		180,931		11,213	
SCRAP METALS -								
Brass, all kinds	1,125,492		58,578		2,327,959		142,594	
Copper, all kinds	1,898,265		95,051		1,571,355		116,212	
Lead, battery plates	7,286,483		115,521		9,114,254		171,097	
Lead, all other	2,473,883		68,363		2,809,926		94,557	
Zinc, all kinds	283,278		9,125		1,291,099		62,875	
Babbitt	(a)		(a)		2,207,199		454,439	
Solder	(a)		(a)		94,532		15,762	
Type metal	1,264,955		37,282		1,075,032		51,236	
Drosses	3,163,640		76,717		3,700,594		83,289	
Other scrap	7,990,187		379,402		7,433,025		343,653	
Shipping containers .....	...		268,013		...		10,899	
All other materials & supplies .....	...		118,616		...		404,351	
TOTAL .....	...		3,138,319		...		3,993,110	

(a) Not asked for separately in 1934.

Table 10 - PRODUCTS MADE, 1934 and 1935.

Products	1	9	3	4	1	9	3	5
	Quantity		Selling value		Quantity		Selling value	
			at works				at works	
	lb.		\$		lb.		\$	
Babbitt metal	1,948,510		436,182		2,418,522		558,991	
Bars and ingots, brass, bronze and aluminium	1,008,770		106,394		1,117,014		117,926	
Castings, brass, bronze and aluminium	1,004,955		116,217		2,633,479		228,874	
Castings, other (except lead)	520,924		150,133		744,482		266,547	
Lead - Bars and ingots (except antimonial lead)	2,698,079		100,873		1,749,941		77,925	
Castings	57,485		7,036		97,911		13,951	
Pipe	2,558,465		228,776		2,374,497		173,097	
Sheet	1,782,684		136,166		1,696,143		128,614	
Traps and fittings	441,783		130,472		525,404		114,253	
Antimonial lead	6,219,485		213,479		8,253,530		340,231	

Table 10 - PRODUCTS MADE, 1934 and 1935 (concluded)

Products	Quantity	1 9 3 4		1 9 3 5	
		Selling value		Selling value	
		at works		at works	
Lead - concluded	lb.	\$		lb.	\$
Other	149,922	25,044		633,400	80,676
Recovered metals - Copper	1,648,869	112,866		1,538,997	116,124
Lead	261,124	8,078		1,461,982	52,396
Tin & tin pipe	168,568	106,817		184,421	119,042
Zinc	1,005,832	45,375		1,799,494	67,569
Other	12,508	1,689		810,612	66,359
Scrap sold	280,106	7,775		448,591	22,827
Solders of all kinds	3,090,359	816,712		3,944,727	1,011,679
Type and Type metal	4,102,992	318,644		4,346,228	385,991
Other products (x) .....	...	2,158,319		...	2,239,330
TOTAL .....	...	5,227,047		...	6,182,402

(x) Includes data for foils, collapsible tubes, slide fasteners, drop and moulded shot, moulded bottle caps, etc.

Table 11 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1935.

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

Table 12 - IMPORTS INTO AND EXPORTS FROM CANADA OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1934 and 1935.

Item	Unit of measure	1 9 3 4		1 9 3 5	
		Quantity	Value	Quantity	Value
			\$		\$
IMPORTS -					
Lead, pig and block	lb.	96,373	3,599	98,473	4,875
Lead, bars and sheets	lb.	59,877	2,500	69,794	2,959
Lead, other, and manufactures, n.o.p.	xxx	...	114,027	...	117,799
TOTAL LEAD AND ITS PRODUCTS ..	xxx	...	120,126	...	125,633
Tin, blocks, pigs or bars	cwt.	39,999	2,053,773	46,770	2,323,177
Tinfoil	lb.	35,158	18,990	45,245	19,756
Collapsible tubes	xxx	...	38,597	...	44,335
TOTAL TIN AND ITS PRODUCTS ..	xxx	...	2,111,360	...	2,387,268

Table 12 - IMPORTS INTO AND EXPORTS FROM CANADA OF LEAD, TIN, ZINC AND THEIR PRODUCTS,
1934 and 1935. (concluded)

		1934 and 1935. (concluded)							
Item	Unit of measure	1 9 3 4		1 9 3 5					
		Quantity	Value \$	Quantity	Value \$				
IMPORTS - concluded									
Zinc, blocks, bars, rods and zinc plate, n.o.p. cwt.		183	1,282	181	2,111				
Zinc strip and sheets and zinc plate for marine boilers.. cwt.		39,649	260,449	55,790	349,013				
Zinc dust cwt.		10,673	61,135	16,481	80,837				
Zinc, other, and manufactures, n.o.p. xx		...	83,083	...	132,790				
TOTAL ZINC AND ITS PRODUCTS . xx		...	405,949	...	564,751				
Alloys, n.o.p. -									
Babbitt metal in blocks, bars, plates and sheets cwt.		311	9,597	723	12,639				
Britannia metal in blocks, pigs or bars cwt.		50	1,663	60	1,948				
Britannia metal, manufactures of, not plated xxx		...	7,900	...	4,681				
Phosphor tin and phosphor bronze in blocks, bars, plates, sheets and wire lb.		826,611	232,483	819,164	213,812				
Chromium metal and tungsten metal in lumps, powder, ingots, blocks or 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.		26,222	16,461	36,007	22,454				
Other alloys, n.o.p. xx		...	541	...	614				
TOTAL ALLOYS, N. O. P. xx		...	268,645	...	261,675				
Type metal in blocks, bars, plates and sheets lb.		687	733	1,988	516				
Type for printing, including chases, quoins and slugs of all kinds . xx		...	42,023	...	52,357				
TOTAL TYPE AND TYPE METAL xx		...	42,756	...	52,873				
EXPORTS -									
Lead, metallic, contained in ore . cwt.		236,448	509,506	113,051	289,955				
Lead in pigs, refined lead, etc. . cwt.		2,831,590	5,238,203	2,829,135	6,871,469				
TOTAL LEAD AND ITS PRODUCTS cwt.		3,068,038	5,747,709	2,942,186	7,161,424				
Zinc, contained in ore..... cwt.		390,434	654,835	196,002	337,732				
Zinc spelter cwt.		2,378,944	6,990,639	2,709,188	7,809,691				
Zinc scrap, dross and ashes cwt.		42,906	48,539	62,675	63,719				
TOTAL ZINC AND ITS PRODUCTS cwt.		2,812,284	7,694,013	2,967,865	8,211,142				

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1935.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products in 1935.</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. Slide fasteners.
Colonial Fastener Company Ltd.	2210 Parthenais St., Montreal	Antimonial lead.
Dominion Smelting and Refining Co. Ltd.	Sherbrooke & Marien Sts., Montreal	Babbitt; solders; type and type metal; lead and zinc from scrap, dross, bronze castings.
Eagle Smelting and Refining Works Ltd.	400 Richmond St., Montreal	Babbitt; solders; type and type metal; bronze and aluminium bars and ingots; tin, zinc, aluminium and copper from scrap; brass castings, nickel-silver.
Liberty Smelting Works	267 Prince St., Montreal	Babbitt; solders; lead bars and ingots; dross. Babbitt; solders; type and type metal; lead bars and ingots; sheet lead; lead traps and fittings; came lead; lead pipe; antimonial lead; tin and tin pipe; dross.
Magnolia Metal Co. of Canada, Ltd.	2028 Manufacturers St., Montreal	Type and type composition.
Mount Royal Metal Company, Ltd.	1205 Mill St., Montreal	Babbitt; solders; type and type metal; lead castings, bars and ingots, sheets, pipe, traps and fittings; antimonial lead, lead wool.
Ouellette, O. J., & Co.	1419 Clark St., Montreal	Babbitt; dropped and moulded shot.
Robertson Lead Manufacturing Co. Ltd.	6251 Lafontaine St. E., Montreal.	Type and composition.
Steel Company of Canada, Ltd., The	2320 Notre Dame St. W., Montreal	
Typographic Craftsmen, Ltd.	455 Craig St. W., Montreal	
<u>ONTARIO -</u>		
Canada Foils, Limited	7 Fraser Ave., Toronto	Foils of lead, tin, 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, 1935. (concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products in 1935</u>
<u>ONTARIO-concluded</u>		
		copper comes, bar tin; block tin pipe; soldering paste.
Canadian Hanson & Van Winkle Co. Ltd.	15 Morrow Ave., Toronto	Anodes of nickel, cadmium, zinc, tin and Monel; brass, bronze and copper castings.
Collapsible Tubes and Containers, Ltd.	95 Sterling Rd., Toronto	Collapsible tubes; small aluminium articles.
Frankel Brothers, Ltd. and National Metal Co., Ltd.	Don Rd. and Eastern Ave., Toronto	Babbitt; solders; type and type metal, antimonial lead; lead bars and ingots; lead and zinc from scrap. Zinc and aluminium recovered from scrap
General Smelting Co. of Canada, Ltd.	Wilcox St., Hamilton	Babbitt, lead bars and ingots; tin from scrap; solders; type and type metal; tin bars.
Hewitt Metals Corp. Ltd.	255 Hanna St. E., Windsor.	Solders, type and type metal; dross.
Holland Metal Company	7 Bolton Ave., Toronto	Solders
Kester Solder Co. of Canada, Ltd.	51 Bruce St., Brantford	Slide fasteners
Lightning Fastener Co. Ltd.	Davidson St., St. Catharines	Babbitt; bars and ingots of lead, tin, brass, bronze and aluminium; solders, nickel alloys, etc.
Metals and Alloys Ltd.	1 Wiltshire Ave., Toronto	Collapsible tubes; moulded tube and bottle caps.
Modern Machine Company Ltd.	344 Queen St., Ottawa	Type and type metal
Monarch Type Foundry	80 Nelson St., Toronto	Type and type metal
Moore Type Foundry	88 Richmond St. W., Toronto	Babbitt; brass, aluminium & bronze castings.
Rain Metals, Ltd.	Regina St., North Bay	
Schultz Die Casting Co. of Canada, Ltd.	Wallaceburg	Zinc base alloy castings
Spooner Copperine Co. Ltd.	Port Hope	Solders
<u>MANITOBA -</u>		
Canada Metal Co., Ltd., The	301 Chambers St., Winnipeg	Babbitt; solders; type and type metal; lead bars and ingots, pipe, sheet, etc.; antimonial lead, bar tin.
Union Metal Co. Ltd., The	654 McGee St., Winnipeg	Babbitt; solders; type and type metal; antimonial lead; lead bars and ingots, cream can caps.
<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.

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