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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
1939



OTTAWA
1940

Price 25 cents

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

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Annual Industry ReportManufactures of the Non-Ferrous Metals GroupTHE WHITE METAL ALLOYS INDUSTRY, 1939

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 reported in this group in 1939 and the value of their output was \$8,937,165. This total was 16.7 per cent over the 1938 value of \$7,660,254 and was only slightly under the all-time high of \$9,011,283 in 1937.

Of the total output during the year under review, 73 per cent came from the 22 plants in Ontario, 21 per cent from the 9 plants in Quebec and 6 per cent from 2 plants in Manitoba and 2 in British Columbia.

Capital employed in these works at the end of 1939 amounted to \$7,936,725, of which 44 per cent represented the value of land, buildings, plant and equipment, 20 per cent represented the value of inventories and stocks in process and 36 per cent the total of cash, accounts receivable, etc. The investment in works in Ontario was \$6,209,881, in Quebec, \$1,328,318 and in other provinces, \$398,526.

Employment was afforded to a monthly average of 1,347 people, including 286 on salaries and 1,061 on wages. Salaries for the year amounted to \$553,370 and wages to \$1,032,812, a total of \$1,586,182. In the previous year, the 1,252 workers were paid \$1,434,089 in salaries and wages.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$4,927,693 delivered at the works. Included in these materials were 16,436 tons of scrap metals at \$1,666,555; 6,790 tons of pig lead at \$446,021; 1,951 tons of pig iron at \$1,443,047; 858 tons of aluminium at \$311,295; 1,232 tons of zinc spelter at \$122,982 and 981 tons of other metals at \$396,460.

Production included 9,967 tons of refined metals (recovered from scrap) valued at \$1,339,319; 2,510 tons of solders at \$1,330,681; 2,273 tons of type and type metal at \$437,740; 1,312 tons of babbitt metal at \$530,630; 1,277 tons of zinc and zinc alloy castings at \$447,466; 1,416 tons of lead pipe at \$253,230; 1,179 tons of lead sheets at \$187,790 and other lines such as metal foil, slide fasteners, moulded shot, collapsible tubes, nickel-chrome tubing, etc.

Table 1 - PRINCIPAL STATISTICS, 1926 - 1939

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
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
% Change 1939 from 1938 ...		/ 10.3	/ 7.6	/ 10.6	/ 10.4	/ 9.3	/ 16.7

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, 1938 and 1939

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
		\$		\$	\$	\$	\$
1938							
Quebec	11	1,325,669	157	202,631	18,307	1,321,261	1,780,964
Ontario	20	5,496,595	1,058	1,179,072	83,853	2,902,783	5,401,743
Manitoba	2)						
British Columbia ..	)	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
1939							
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

Table 3 - CAPITAL EMPLOYED, 1938 and 1939

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>1938</u>				
Quebec	591,909	294,176	439,584	1,325,669
Ontario	2,524,703	1,079,867	1,892,025	5,496,595
Manitoba				
British Columbia ...)	179,748	99,813	96,025	375,591
CANADA	3,296,360	1,473,861	2,427,634	7,197,855
<u>1939</u>				
Quebec	574,012	285,451	468,855	1,328,318
Ontario	2,725,053	1,171,886	2,312,942	6,209,881
Manitoba				
British Columbia ...)	174,482	119,141	104,903	398,526
CANADA	3,473,547	1,576,478	2,886,700	7,936,725

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1938 and 1939								
Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1938</u>								
Quebec	42	8	106	1	157	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	...	37	26,026	26,360	52,386
CANADA	167	86	743	256	1,252	468,656	965,433	1,434,089
<u>1939</u>								
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								
British Columbia.)	10	5	23	...	38	34,571	30,162	64,733
CANADA	188	98	777	284	1,347	553,370	1,032,812	1,586,182

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1939

	Number of plants	Capital employed	Number of employees	Selling value of products at works
		\$		\$
(a) PRODUCTION				
Under \$10,000	4	23,476	8	16,561
\$10,000 to \$25,000	5	156,073	27	74,730
\$25,001 to \$50,000	3	175,014	29	102,289
\$50,001 to \$100,000	5	328,754	54	390,610
\$100,000 to \$250,000	9	1,189,476	103	1,479,847
Over \$250,000	9	6,063,932	1,126	6,873,128
TOTAL	35	7,936,725	1,347	8,937,165

Table 5 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1939 - (Concluded)

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(b) EMPLOYEES				
1 or 2	4	54,283	7	27,098
3 to 10	13	1,004,784	83	862,095
11 to 20	9	842,241	116	1,392,433
Over 20	9	6,035,417	1,141	6,655,539
TOTAL	35	7,936,725	1,347	8,937,165
(c) CAPITAL				
Under \$25,000	8	100,939	32	141,068
\$25,001 to \$100,000	13	788,918	137	1,087,853
\$100,001 to \$500,000	10	2,133,767	389	2,766,820
Over \$500,000	4	4,913,101	789	4,941,424
TOTAL	35	7,936,725	1,347	8,937,165

Table 6 - WAGE-EARNERS, BY MONTHS, 1938 and 1939 (On the last work day of each month)

Months	1 9 3 8			1 9 3 9		
	Male	Female	TOTAL	Male	Female	TOTAL
January	753	218	971	770	247	1,017
February	747	238	985	745	242	987
March	744	232	976	714	248	962
April	752	231	983	717	243	960
May	739	231	970	716	248	964
June	729	252	981	750	264	1,014
July	734	247	981	765	262	1,027
August	741	276	1,017	797	287	1,084
September	753	295	1,048	831	318	1,149
October	755	308	1,063	838	339	1,177
November	758	285	1,043	873	352	1,225
December	738	241	979	853	358	1,211
AVERAGE	743	256	999	777	284	1,061

Table 7 - REGULAR HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1939 (In one week of normal employment; overtime not included)

Regular hours worked per week	Number of wage-earners	Per cent of total	Regular hours worked per week	Number of wage-earners	Per cent of total
30 hours or less	11	0.9	51 - 54 hours ...	34	2.9
41 - 43 hours ..	13	1.1	55 hours	158	13.5
44 hours	202	17.2	56 - 64 hours ...	290	24.7
45 - 47 hours ..	135	11.5	65 hours and over	33	2.8
48 hours	40	3.4	Total	1,174	100.0
49 - 50 hours ..	258	22.0	Total wages paid in selected week	\$25,224	

Table 8 - FUEL AND ELECTRICITY USED, 1938 and 1939

Kinds	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian	short ton	800	4,833	661	4,851
Imported	short ton	1,323	10,211	1,285	10,359
Anthracite coal	short ton	101	1,245	119	1,490
Coke	short ton	654	6,791	729	6,679
Gasoline	Imp.gal.	12,913	2,066	16,922	2,561
Kerosene	Imp.gal.	472	89	492	78
Fuel oil	Imp.gal.	244,152	19,682	325,691	25,696
Wood	Cord	36	253	53	350
Gas - Manufactured	M cu.ft.	24,859	9,028	30,499	9,882
Natural	M cu.ft.	11,556	6,638	10,972	6,105
Other fuel .....	...	...	...	...	35
Electricity purchased	K. W. H.	3,884,206	48,951	4,895,156	53,099
TOTAL	xxx	...	109,787	...	121,185

Table 9 - POWER EQUIPMENT, 1938 and 1939

	1 9 3 8		1 9 3 9	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Electric motors operated by purchased power - In use	550	4,305	680	5,273
In reserve or idle	13	185	22	180
TOTAL	563	4,490	702	5,453
Boilers - In use	2	78	3	93
In reserve or idle	1	65	1	65

Table 10 - MATERIALS USED, 1938 and 1939

Materials	1 9 3 8		1 9 3 9	
	Quantity	Cost at works	Quantity	Cost at works
	lb.	\$	lb.	\$
METALS (other than scrap) -				
Aluminium	1,272,702	288,751	1,516,717	311,295
Antimony, regulus	514,027	68,962	671,118	70,855
Cadmium	46,305	38,333	76,072	49,722
Copper ingots and slabs	51,017	6,203	115,851	13,340
Lead, pig	11,875,116	505,614	13,579,186	446,021
Nickel	228,938	66,292	228,525	67,657
Nickel-chrome sheets	52,000	39,270	79,102	56,800
Tin, pig	2,756,326	1,168,745	2,902,169	1,443,047
Tin plate	21,510	3,105	64,520	10,442
Zinc spelter	2,256,403	114,763	2,464,493	122,992
Other metals, except scrap ...	759,583	136,786	727,674	127,644
Antimony ore	145,440	7,575	114,143	5,407

Table 10 - MATERIALS USED, 1938 and 1939 - (Concluded)

Materials	1 9 3 8		1 9 3 9	
	Quantity	Cost at works	Quantity	Cost at works
SCRAP METALS -	lb.	\$	lb.	\$
Aluminium	1,630,334	211,922	2,539,707	322,987
Brass and bronze, all kinds ..	2,226,789	143,889	2,570,468	171,663
Copper, all kinds	2,162,192	145,280	2,411,785	184,371
Lead, battery plates	9,459,490	239,602	8,252,238	214,709
Lead, all other kinds	2,771,454	108,514	3,715,164	149,945
Zinc, all kinds	627,551	15,304	771,921	18,982
Babbitt	1,371,027	169,481	1,479,824	176,519
Solder	63,993	7,388	135,510	17,703
Tin	57,867	21,106	60,754	24,671
Type metal	1,454,266	64,322	1,107,082	58,455
Drosses	4,953,143	133,708	5,895,990	132,151
Other scrap, including scrap unspecified by kind	4,369,911	225,243	2,383,066	129,321
Shipping containers .....	...	26,903	...	31,934
All other materials .....	...	549,820	...	569,060
TOTAL .....	...	4,506,881	...	4,927,693

Table 11 - PRODUCTS MADE, 1938 and 1939

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 8		1 9 3 9	
	Quantity	Selling value at works	Quantity	Selling value at works
	lb.	\$	lb.	\$
Babbitt metal	2,229,444	455,742	2,623,562	530,630
Bars and ingots - Aluminium (1)	1,086,030	187,985	1,899,550	287,699
(from scrap) Brass, bronze and copper (1)	5,026,667	384,567	3,526,298	284,688
Lead - Antimonial.	7,644,802	377,937	9,671,387	480,471
Other	2,799,025	133,905	2,306,659	111,108
Tin	159,971	76,933	165,914	90,223
Zinc	2,382,531	104,516	2,364,909	85,130
Castings - Aluminium (1)	53,925	15,207	63,096	15,240
Brass and bronze (1)	318,678	83,116	824,665	290,490
Lead (1)	760,613	38,511	259,808	23,953
Zinc, including zinc base die castings (1)	1,703,657	370,280	2,553,598	447,466
Other, including nickel and cadmium anodes	725,890	185,620	391,990	209,598
Lead pipe	2,318,001	218,167	2,832,161	253,230
Lead sheets	2,521,575	200,848	2,358,555	187,790
Lead traps and fittings	610,018	115,192	714,018	126,874
Other lead products .....	...	53,129	121,697	91,567
Scrap sold	619,829	23,207	712,665	29,105
Solders	5,032,225	1,201,999	5,020,048	1,330,681
Type and type metal	3,635,344	355,636	4,546,996	437,740
Other products (x) .....	...	3,077,757	...	3,623,482
TOTAL .....	...	7,660,254	...	8,937,165

(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 production figures cannot be shown separately.

Table 12 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1924 - 1939

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 ...	4,566,973	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	581,586	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	355,656
1939 ...	2,623,562	530,630	5,020,048	1,330,681	4,546,996	437,740

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1938 and 1939

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

Items	1 9 3 8		1 9 3 9		
	Quantity	Value	Quantity	Value	
		\$		\$	
<u>Imports -</u>					
Lead, pig and block	lb.	56,416	3,235	12,666	1,437
Lead, old and scrap	lb.	...	...	4,180	385
Lead, bars and sheets	lb.	54,507	2,948	88,092	5,442
Lead pipe	lb.	28,333	1,671	69,525	3,798
Lead capsules for bottles .....	...	...	65,029	...	78,652
Lead shot and bullets	lb.	9,023	634	11,726	974
Manufactures of lead, n.o.p. ....	...	...	67,228	...	80,338
TOTAL LEAD AND ITS PRODUCTS .....	...	...	140,745	...	171,026
Tin in blocks, pigs and bars ...	cwt.	52,752	2,205,449	58,257	2,833,089
Tinfoil	lb.	19,092	6,593	38,520	12,133
Collapsible tubes .....	...	...	45,484	...	64,523
TOTAL TIN AND ITS PRODUCTS .....	...	...	2,257,526	...	2,909,745
Zinc spelter	cwt.	27	201	12	96
Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. ..	cwt.	59	643	385	3,347
Zinc strip and sheets, and zinc plates for marine boilers	cwt.	67,716	467,114	70,043	547,514
Zinc dust	cwt.	13,739	70,294	13,019	80,571
Zinc slugs or discs imported by manufacturers of electric storage batteries .....	...	...	20,582	...	60,232
Zinc manufactures, n.o.p. ....	...	...	206,948	...	283,127
TOTAL ZINC AND ITS PRODUCTS .....	...	...	765,782	...	974,887
<u>Alloys, n.o.p. -</u>					
Babbitt metal in blocks, bars, plates and sheets	cwt.	7,825	40,869	1,424	12,758

Table 13 - IMPORTS INTO CANADA AND EXPORTS OF LEAD, TIN, ZINC AND THEIR PRODUCTS
1938 and 1939 - (Concluded)
(n.o.p. means "not otherwise provided for")

Items		1 9 3 8		1 9 3 9	
		Quantity	Value	Quantity	Value
			\$		\$
<u>Imports (Concluded) -</u>					
Alloys, n.o.p. -					
Britannia metal in blocks, pigs and bars	cwt.	63	2,192	60	1,974
Britannia metal, manufactures of, not plated	cwt.	...	4,761	...	8,775
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.	43,527	30,328	55,428	50,769
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) ..	...	...	57,279	...	77,743
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire	lb.	595,098	158,137	740,691	235,420
Yellow metal in bars, bolts and sheets, for use in the construction or repair of vessels	cwt.	105	1,581	73	1,617
Copper alloys containing boron, for use exclusively as a flux or deoxidizer (from February 26, 1937) ....	...	...	159	...	406
TOTAL OF ABOVE ALLOYS, N.O.P. ....	...	...	295,306	...	389,462
Type metal in blocks, bars, plates and sheets	lb.	540,959	20,746	647	72
Type for printing, including chases, quoins, and slugs of all kinds ....	...	...	56,416	...	48,280
TOTAL TYPE AND TYPE METAL .....	...	...	77,162	...	48,352
<u>Exports -</u>					
Lead, metallic, contained in ore	cwt.	71,623	345,394	82,042	399,811
Lead in pigs, refined lead, etc.	tons	154,932	8,637,797	180,736	9,450,265
TOTAL LEAD AND ITS PRODUCTS .....	...	...	8,983,191	...	9,850,076
Zinc contained in ore	cwt.	458,410	1,154,812	412,606	526,905
Zinc spelter	tons	132,212	8,626,961	155,935	9,343,586
Zinc dross and ashes	cwt.	23,641	34,235	39,185	51,741
TOTAL ZINC AND ITS PRODUCTS .....	...	...	9,816,008	...	9,922,232

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1939

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1939</u>
<u>QUEBEC -</u>		
Atlas Metal and Alloys Co. of Canada, Ltd.	421 St. Henry St., Montreal	Babbitt; 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; zinc base die castings.
Eagle Smelting and Refining Works Ltd.	400 Richmond St., Montreal	Babbitt; solders; type and type metal; tin and zinc bars and ingots; lead castings.
Liberty Smelting Works	269 Prince St., Montreal	Babbitt; solders, bars and ingots of brass, lead, copper, tin and zinc; die castings; type and type metal.
Magnolia Metal Co. of Canada Ltd.	2028 Manufacturers St., Montreal	Babbitt; solders; type and type metal.
Mayer Sealing Devices Reg'd.	2027 St. Timothee St., Montreal	Lead seals.
Mount Royal Metal Co. Ltd.	1201 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.
Ouellette, O. J., & Co.	270 Vitre E., Montreal	Type and type composition; lead headed nails.
Riverside Smelting and Refining Steel Co. of Canada Ltd.	301 Nazareth St., Montreal	Babbitt; type metal; bars and ingots.
	2320 Notre Dame St. W., Montreal	Babbitt; dropped and moulded shot.
<u>ONTARIO -</u>		
Addressograph-Multigraph of Canada Ltd.	349 Carlaw Ave., Toronto	Supplies for addressograph and multigraph machines.
Canada Foils Ltd.	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; bars and ingots of aluminium, brass, bronze, zinc, lead and tin; castings of aluminium, brass, bronze and lead; lead pipe, sheets, traps and fittings; alloys of lead, tin and antimony; copper comes; soldering paste; block tin pipe.
Canadian Hanson and Van Winkle Co. Ltd.	15 Morrow Ave., Toronto	Anodes of cadmium, nickel and copper, castings of bronze; castings of tin, zinc, brass and lead.

DIRECTORY OF FIRMS IN THE WHITE METAL ALLOYS INDUSTRY, 1939 - (Concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1939</u>
<u>ONTARIO (Concluded) -</u>		
Canadian Metal Forming Corp. Ltd.	325 Devonshire Rd., Windsor	Chrome-nickel tubing.
Dominion & Monarch Type Foundry	80 Nelson St., Toronto	Type and type metal.
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, zinc, copper and tin; lead castings.
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.
Holland Metal Co.	7 Boulton Ave., Toronto	Solders; type and type metal; bars and ingots of copper, lead, tin and zinc.
Kester Solder Co. of Canada Ltd.	51 Bruce St., Brantford	Solders.
Leader Die Casting Co.	24 Mercer St., Toronto	Zinc base die castings.
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.
Modern Containers Ltd.	344 Queen St., Ottawa and 95 Sterling Road, Toronto	Collapsible tubes; moulded tube and bottle caps.
Moore Type Foundry Ltd.	431 King St. W., Toronto	Type and type metal.
Newburg Die Castings	29A Birch Ave., Toronto	Aluminium bronze die castings.
Pressure Castings of Canada Ltd.	67 Main St., Weston, Ont.	Zinc base die castings.
Rahn Metals, Ltd.	Regina St., North Bay	Babbitt; castings of bronze and aluminium; solders.
Schultz Die Casting Co. of Canada Ltd.	Wallaceburg	Zinc base die castings.
Spooner Copperine Co. Ltd.	John St., Port Hope	Babbitt; solders.
<u>MANITOBA -</u>		
Canada Metal Co. Ltd.	301 Chambers St., Winnipeg	Babbitt; solders; type and type metal; bars and ingots of lead, tin and zinc; 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, lead sashweights.
<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; miscellaneous lead products and block tin pipe.
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver	Babbitt; type and type metal; bars of lead, brass and bronze.

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