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THE WHITE METAL ALLOYS INDUSTRY

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** – The Primary Industries, including mining, forestry and fisheries; **Volume II** – Manufacturing; **Volume III** – Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I – General Review of the Manufacturing Industries, \$1.50
- II – The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada
 - Section B. Atlantic Provinces
 - Section C. Quebec
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Regional Distribution
- III – Foods and Beverages
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- XIX – Miscellaneous Manufactures

The present report belongs in Part XIV, Non-ferrous Metal Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A – General Review
- B – The Aluminum Products Industry
- C – The Brass and Copper Products Industry
- D – The White Metal Alloys Industry
- E – The Jewellery and Silverware Industry
- F – The Smelting and Refining Industry
- G – The Miscellaneous Non-ferrous Metal Products Industry

Prices of most reports released after January 1, 1959 have been increased. Information on the new prices of particular issues is available on request from the Information Services Division of the Dominion Bureau of Statistics.

THE WHITE METAL ALLOYS INDUSTRY 1957

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, zinc, etc.; and (c) the manufacture of products, such as lead sheet, lead pipe, antimonial lead, collapsible tubes, castings, metal foil, etc., in which the white metals or their alloys are the principal materials. In some establishments all three of these operations are carried on, so it is not practicable to make a subdivision of the industry.

Sixty-one factories reported in this group in 1957 and the value of their output was \$56,969,191, a decline of 8.9 per cent from the \$62,515,219 reported in 1956.

Of the total output during the year under review 73 per cent came from the 34 plants in Ontario, 19 per cent from the 19 plants in Quebec and the remaining 8 per cent from the 8 plants located in Manitoba, Alberta and British Columbia.

Employment was afforded to a total of 3,154 people, including 705 on salaries and 2,449 on wages. Salaries for the year amounted to \$3,429,785 and wages to \$7,828,375, a total of \$11,258,160. In the previous year the 3,199 workers were paid \$11,424,043.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$37,734,175 delivered at the works. Included in these materials, were 63,800 tons of scrap metals at \$15,020,381; 19,481 tons of pig lead at \$5,477,030; 1,823 tons of pig tin at \$3,425,664; 5,490 tons of aluminum at \$3,512,210; 9,955 tons of zinc spelter at \$2,390,589 and other metals at \$7,908,301.

Factory shipments included refined metals (recovered from scrap) valued at \$12,168,344; 5,477 tons of solders at \$5,868,549; 4,543 tons of type and type metal at \$2,698,302; 1,008 tons of babbitt metal at \$957,371, die castings at \$8,510,930; 1,709 tons of lead pipe at \$690,941; 2,406 tons of lead sheet at \$953,506 and other lines, such as metal foil, moulded shot, collapsible tubes, etc.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "value added" was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1. Principal Statistics of the White Metal Alloys Industry, Significant Years 1929-1957, and by Provinces, 1956 and 1957

Year and province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture ¹	Gross selling value of products ¹
	number		dollars				
1929	28	755	929,295	98,958	4,757,366	1,609,844	6,466,168
1932	24	532	621,480	62,970	1,935,507	1,499,572	3,498,049
1937	38	1,222	1,360,216	108,519	5,749,842	3,152,922	9,011,283
1939	35	1,347	1,586,182	121,185	4,927,693	3,888,287	8,937,165
1942	40	2,583	3,848,639	314,986	13,328,759	9,681,331	23,325,076
1946	47	3,414	5,600,124	430,560	15,851,099	9,847,248	26,128,907
1949	47	3,428	7,843,173	704,742	30,643,550	14,130,235	45,478,527
1953	56	3,641	11,007,518	767,613	30,142,086	19,595,648	50,505,347
1954	56	3,303	10,444,634	795,903	29,671,943	19,892,113	49,823,446
1955	60	3,102	10,496,152	852,309	38,099,192	24,384,056	62,505,196
1956							
Quebec	17	489	1,834,698	114,662	9,210,457	2,830,093	12,013,925
Ontario	33	2,539	9,019,746	784,884	28,676,327	16,033,871	45,508,133
Manitoba	3	76	219,590	44,145	1,670,244	560,506	2,219,794
Alberta	1	95	350,009	31,700	2,033,202	755,830	2,773,367
British Columbia	4						
Canada	58	3,199	11,424,043	975,391	41,590,230	20,180,300	62,515,219
1957							
Quebec	19	489	1,917,132	138,094	7,851,094	2,924,360	10,818,553
Ontario	34	2,502	8,755,798	790,408	26,720,628	13,873,554	41,604,233
Manitoba	3	77	237,229	48,832	1,476,373	425,389	2,067,534
Alberta	1	86	348,001	31,103	1,686,080	632,753	2,478,871
British Columbia	4						
Canada	61	3,154	11,258,160	1,008,437	37,734,175	17,856,056	56,969,191

¹ See footnote to Text.

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. Inventories,¹ 1957

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	733,000	99,969	639,080	1,472,049
Ontario	3,789,004	862,558	2,506,269	7,157,831
Other provinces	337,456	68,970	445,766	852,192
Canada	4,859,460	1,031,497	3,591,115	9,482,072
Closing:				
Quebec	645,364	213,646	620,398	1,479,408
Ontario	2,516,046	993,663	2,155,521	5,665,230
Other provinces	362,847	69,218	199,643	631,708
Canada	3,524,257	1,276,527	2,975,562	7,776,346

¹ (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the White Metal Alloys Industry for the year under review are shown in the above table.

(c) The opening inventory for 1957 does not necessarily agree with the closing inventory for 1956, because of the addition of new plants, the transfer of plants to other industries and plants going out of business. However, the value added figures for the previous year have not been recalculated to allow for the changes mentioned above.

TABLE 3. Products Made in the White Metal Alloys Industry, 1956 and 1957

Product	1956		1957	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	lb.	\$	lb.	\$
Refined metals (reclaimed or remelted):				
Aluminum	12,444,907	3,369,690	14,269,937	3,079,749
Lead (antimonial)	45,938,509	7,503,089	40,218,121	6,158,543
Lead (common)	10,640,743	1,756,044	13,723,522	2,090,432
Tin	88,394	92,824	75,531	73,081
Zinc	5,268,306	722,927	5,642,354	660,905
Other metals	—	61,189	—	105,634
Alloys:				
Babbitt	2,695,450	1,061,776	2,015,385	957,371
Brass and bronze ingots	11,498,169	3,996,709	9,788,992	2,642,278
Copper alloys, not elsewhere specified	330,700	402,900	1,843,316	546,851
Lead alloys, not elsewhere specified	898,170	326,914	1,191,200	269,236
Solders	12,904,649	6,071,000	11,953,925	5,868,549
Tin alloys, not elsewhere specified	194,648	99,320	—	—
Type and type metal	9,974,777	2,613,598	9,085,807	2,698,302
Die casting alloys	12,267,906	2,036,482	10,527,122	1,613,252
Zinc alloys, not elsewhere specified	856,862	156,544	879,625	151,669
Other non-ferrous alloys	—	394,431	—	354,754
Castings:				
Die castings:				
Of aluminum-base alloy	2,067,712	1,601,359	1,781,297	1,245,982
Of zinc-base alloy	16,532,747	8,450,825	15,561,010	7,222,947
Of other metal base	131,831	91,676	74,225	42,001
Other castings	—	2,767,202	—	2,755,567
Lead products:				
Pipe	3,131,767	764,570	3,417,087	690,941
Sheets	4,818,263	1,052,360	4,811,182	953,506
Traps and fittings	2,393,973	1,027,743	1,324,208	726,816
Miscellaneous, including bullet wire, shot, etc. ..	—	1,054,700	—	1,089,179
All other products ¹	—	15,039,347	—	14,971,646
Total	—	62,515,219	—	56,969,191

¹ Includes commodities which were made by only one or two firms in this industry, such as metal foil, collapsible tubes, lead oxides, etc.

TABLE 4. Materials Used in the White Metal Alloys Industry, 1956 and 1957

Material	1956		1957	
	Quantity	Cost at plant	Quantity	Cost at plant
		\$		\$
Metals (other than scrap):				
Aluminum:				
Ingots:				
Primary or virgin	lb. 6,017,606	1,471,855	4,777,750	1,184,260
Secondary (from scrap)	" 1,372,923	307,039	793,204	190,628
Other forms	" 4,962,704	2,134,394	5,409,780	2,137,322
Antimony	" 1,518,212	364,754	1,429,374	318,353
Arsenic (elemental and oxide)	" 90,454	9,007	90,516	13,155
Bismuth	" 38,571	83,886	34,871	78,549
Brass, and bronze, all forms	" 1,831,494	524,701	822,643	325,118
Cadmium	" 13,486	21,511	9,625	12,281
Copper ingots and slabs:				
Primary or virgin	" 171,363	53,256	3,132	1,157
Secondary (from scrap)	" 762,369	342,129	90	14
Die casting alloys	" 8,191,504	1,403,002	7,920,727	1,249,919
Lead, pig:				
Pure:				
Primary or virgin	" 41,118,662	6,253,019	32,593,081	4,611,194
Secondary (from scrap)	" 1,689,377	233,478	2,921,869	378,193
Antimonial:				
Primary	" 3,023,583	487,066	2,905,090	411,785
Secondary (from scrap)	" 452,850	68,060	543,840	75,858
Magnesium	" 841,238	307,704	681,477	284,369
Manganese metal	" 16,017	7,734	30,618	14,649
Nickel	" 84,822	56,306	47,884	33,252
Silicon metal	" 222,138	49,263	557,569	121,040
Silver, fine	troy oz. 12,910	11,926	27,180	24,789
Tellurium	lb. 1,202	2,200	1,653	2,977
Tin, pig:				
Primary or virgin	" 4,108,599	4,009,214	3,643,060	3,423,651
Secondary (from scrap)	" 11,796	11,076	2,600	2,013
Zinc slabs, bars and ingots:				
Primary or virgin	" 17,690,528	2,657,799	15,424,086	1,885,703
Secondary (from scrap)	" 4,629,287	602,809	4,485,300	504,886
Other metals, except scrap, but including alloys	" 1,647,456	407,280	1,661,292	389,588
Scrap metals of all kinds:				
Aluminum	" 12,441,375	2,136,901	13,112,531	2,259,623
Babbitt	" 3,403,943	698,971	3,850,118	599,462
Brass and bronze	" 8,436,558	2,051,688	10,383,487	1,837,127
Copper	" 3,711,813	1,144,103	4,420,155	915,786
Lead:				
Battery plates and lugs	" 47,258,270	4,068,871	46,441,638	3,624,467
Dross	" 3,531,180	391,430	11,821,131	1,134,937
Other	" 13,237,726	2,177,951	18,209,938	2,352,647
Magnesium	" 249,498	12,805	292,180	17,925
Solder	" 1,471,617	348,433	2,647,911	657,216
Tin	" 90,151	57,034	287,429	133,260
Type metal	" 4,301,840	806,896	4,435,150	773,805
Zinc	" 2,283,380	168,183	2,478,678	171,363
Zinc dross	" 3,891,811	452,796	8,468,937	458,269
Other scrap, including scrap unspecified by kind	" 1,996,170	347,932	751,001	84,494
Shipping containers	—	300,883	—	396,610
All other materials	—	4,544,835	—	4,642,481
Total	—	41,590,230	—	37,734,175

TABLE 5. Production¹ of Babbitt, Solders, Type and Type Metal, 1948-1957 (From all industries)

Year	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
	lb.	\$	lb.	\$	lb.	\$
1948	5,496,104	1,840,169	10,480,048	4,511,761	8,601,466	1,824,902
1949	3,630,232	1,278,156	9,473,573	4,412,506	7,812,131	1,768,434
1950	4,202,607	1,634,590	12,897,001	6,009,587	9,129,748	2,157,457
1951	4,061,472	2,287,717	11,873,951	7,409,623	8,592,650	2,377,489
1952	2,810,857	1,358,068	11,734,509	5,674,938	7,559,473	2,065,443
1953	2,879,263	1,168,778	11,242,213	5,087,584	6,320,582	1,724,280
1954	2,036,194	904,776	10,356,093	4,591,640	8,149,079	1,732,508
1955	2,848,000	1,207,000	12,814,000	5,764,000	7,794,000	1,897,000
1956	2,963,000	1,194,000	12,937,000	6,086,000	9,975,000	2,614,000
1957	2,176,000	1,047,000	11,994,000	5,890,000	9,086,000	2,698,000

¹ Factory shipments since 1952.

TABLE 6. Principal Statistics of the White Metal Alloys Industry, Classified According to Type of Ownership, 1956 and 1957

Type	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1956					
Individual ownership	3	34	97,452	177,534	326,968
Partnerships	3	47	104,359	205,035	359,298
Incorporated companies	52	3,118	11,222,232	41,207,061	61,828,953
Total	58	3,199	11,424,043	41,590,230	62,515,219
1957					
Individual ownership	4	35	92,928	135,832	237,141
Partnerships	4	45	114,409	219,753	382,966
Incorporated companies	53	3,074	11,050,823	37,378,590	56,349,084
Total	61	3,154	11,258,160	37,734,175	56,969,191

TABLE 7. Principal Statistics of the White Metal Alloys Industry in Canada, Grouped According to Value of Factory Shipments, 1956 and 1957

Establishments reporting value of factory shipments	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1956					
Under \$25,000	—	—	—	—	—
\$25,000 to \$49,999	6	41	85,326	97,206	220,413
\$50,000 to \$99,999	5	36	115,919	122,310	330,812
\$100,000 to \$199,999	14	155	457,233	1,050,498	1,931,248
\$200,000 to \$499,999	10	186	630,105	1,651,300	2,765,975
\$500,000 to \$999,999	5	140	507,416	2,471,407	3,548,784
\$1,000,000 to \$4,999,999	16	2,641	9,628,044	36,197,509	53,617,987
\$5,000,000 and over	2				
Total	58	3,199	11,424,043	41,590,230	62,515,219
1957					
Under \$25,000	4	12	27,527	22,289	71,137
\$25,000 to \$49,999	7	31	104,516	102,089	240,415
\$50,000 to \$99,999	3	27	84,347	138,066	254,463
\$100,000 to \$199,999	14	142	505,012	971,096	1,877,832
\$200,000 to \$499,999	11	223	667,487	1,663,511	2,830,977
\$500,000 to \$999,999	4	150	588,698	1,896,194	3,087,346
\$1,000,000 to \$4,999,999	16	2,550	9,216,819	32,940,930	48,607,021
\$5,000,000 and over	2				
Head office	—	19	63,754	—	—
Total	61	3,154	11,258,160	37,734,175	56,969,191

TABLE 8. Employees and their Earnings in the White Metal Alloys Industry, by Provinces, 1956 and 1957

Province	Number of employees					Earnings			
	Office and supervisory		Production workers		Total	Office and supervisory	Production workers	Total	
	Male	Female	Male	Female					
							dollars		
1956									
Quebec	79	25	355	30	489	453,338	1,380,860	1,834,698	
Ontario	373	144	1,535	487	2,539	2,519,917	6,499,829	9,019,746	
Manitoba	15	8	50	3	76	79,973	139,617	219,590	
Alberta and British Columbia	25	12	57	1	95	144,913	205,096	350,009	
Canada	492	189	1,997	521	3,199	3,198,641	8,225,402	11,424,043	
1957									
Quebec	82	28	349	30	489	535,688	1,381,444	1,917,132	
Ontario	400	138	1,484	480	2,502	2,675,611	6,080,187	8,755,798	
Manitoba	15	12	47	3	77	83,087	154,142	237,229	
Alberta and British Columbia	20	10	56	—	86	135,399	212,602	348,001	
Canada	517	188	1,936	513	3,154	3,429,785	7,828,375	11,258,160	

TABLE 9. Production Workers, by Months, 1956 and 1957

Month	1956			1957		
	Male	Female	Total	Male	Female	Total
	number					
January	1,951	544	2,495	1,946	532	2,478
February	1,968	547	2,515	2,031	513	2,544
March	2,046	572	2,618	1,950	494	2,444
April	2,073	559	2,632	1,939	471	2,410
May	2,117	572	2,689	1,985	508	2,493
June	1,926	541	2,467	1,992	467	2,459
July	1,850	377	2,227	1,925	512	2,437
August	2,027	532	2,559	1,936	481	2,417
September	2,043	532	2,575	1,938	515	2,453
October	2,050	566	2,616	1,893	543	2,436
November	1,990	567	2,557	1,856	572	2,428
December	1,906	536	2,442	1,843	548	2,391
Average	1,996	537	2,533	1,936	513	2,449

TABLE 10. Capital and Repair Expenditures in the White Metal Alloys Industry, 1953-1957

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Con-struction	Machinery and equipment		Con-struction	Machinery and equipment		
	thousands of dollars						
1953	2,514	986	3,500	112	604	716	4,216
1954	74	920	994	149	709	858	1,852
1955	616	1,033	1,649	96	739	835	2,484
1956	822	1,362	2,184	86	1,231	1,317	3,501
1957	337	817	1,154	80	721	801	1,955

Note: Figures for the current year are preliminary.

TABLE 11. Imports of Lead, Tin and Zinc and Their Products, 1956 and 1957

Item	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
Lead and its products:				
Lead in pigs and blocks..... lb.	209,444	37,790	3,014,204	378,854
Lead, old and scrap..... "	122,453	6,088	164,473	7,456
Lead in bars and sheets..... "	150,803	29,680	72,653	13,338
Lead pipe..... lb.	2,221	512	11,383	1,863
Lead capsules for bottles..... "	—	79,468	—	60,335
Shot and bullets, lead..... lb.	7,053	6,182	18,260	7,541
Manufactures of lead, n.o.p..... "	—	275,020	—	259,412
Tin and its products:				
Tin in blocks, pigs or bars..... cwt.	84,531	8,194,367	93,081	8,538,741
Tin foil..... lb.	15,469	17,643	16,260	16,580
Collapsible tubes..... "	—	126,289	—	38,902
Zinc and its products:				
Zinc in blocks, pigs, bars and rods and zinc plates, n.o.p. cwt.	1,522	42,934	860	18,234
Zinc strip and sheets and zinc plates for marine boilers.... "	32,292	765,392	29,804	693,907
Zinc dust..... "	9,821	154,031	13,520	204,227
Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries..... "	—	317,595	—	194,965
Zinc, manufactures of, n.o.p..... "	—	2,464,058	—	2,342,493
Alloys, n.o.p.:				
Babbitt metal in blocks, bars, plates and sheets..... cwt.	401	32,174	371	30,094
Britannia metal, manufactures of, not plated..... "	—	34,639	—	26,421
Chromium metal and tungsten metal, in lumps, powder, ingots, blocks or bars and scrap of alloy metal containing chromium and tungsten, for alloying purposes..... lb.	152,798	484,633	129,839	426,716
Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould, and metal alloy strip..... "	—	33,883	—	19,512
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire..... lb.	1,818,319	1,345,837	1,315,077	867,974
Alloys of copper..... "	—	501,893	—	364,938
Alloys of magnesium..... "	—	366,837	—	276,742
Type and type metal:				
Type metal, in blocks, bars, plates and sheets..... lb.	560	272	15,060	1,717
Type for printing, including chases, quoins and slugs of all kinds..... "	—	229,730	—	213,050

TABLE 12. Exports of Lead and Zinc and Their Products, 1956 and 1957

Item	1956		1957	
	Quantity	Value	Quantity	Value
		\$		\$
Lead in pigs, refined lead..... cwt.	1,592,665	21,451,906	1,690,820	18,862,323
Lead scrap..... "	3,238	25,514	6,823	41,025
Lead pipe and tubing..... "	419	8,766	544	12,798
Lead manufactures..... "	—	12,218	—	22,720
Zinc spelter..... cwt.	3,674,560	47,013,213	4,040,135	43,481,140
Zinc scrap, dross and ashes..... "	109,327	512,854	107,135	649,996
Zinc, manufactures of..... "	—	221,441	—	196,910

TABLE 13. Fuel and Electricity Used in the White Metal Alloys Industry, 1956 and 1957

Kind	1956		1957		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Bituminous coal (a) From Canadian mines	ton	297	4,123	263	3,664
(b) Imported	"	1,525	24,145	1,242	16,539
Anthracite coal	"	916	13,616	800	12,619
Coke	"	1,197	27,772	2,036	52,041
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	157,807	64,066	210,278	89,145
Kerosene	"	28,531	5,548	44,132	8,727
Fuel oil	"	2,592,879	361,927	2,137,803	306,655
Gas (a) Liquefied petroleum gases	"	145,860	28,448	123,990	23,653
(b) Other manufactured gas	M cu. ft.	216,150 ¹	88,451	221,625	94,507
(c) Natural gas	"	103,886	98,461	153,118	146,682
Other fuel	—	—	5,697	—	670
Electricity purchased	kwh.	24,414,060	253,137	21,871,228	253,535
Total	—	—	975,391	—	1,008,437

¹Revised.

Directory of Firms in the White Metal Alloys Industry, 1957

Name of firm	Location of plant
Quebec:	
Associated Printers Supply Co.	1433 Wellington St., Montreal
Canada Metal Company Limited, The	6265 Notre Dame St. E., Montreal
Dominion Joints	5492 Blvd. Decarie, Montreal
Eagle Smelting & Refining Works Limited	1095 Smith St., Montreal
Eastern Die Casting Co. Reg'd.	975 Decarie Blvd., Ville St. Laurent
Federated Metals Canada Ltd.	1400 Norman St., Lachine
Herlicon Metals & Plastics Inc.	3815 Ruskin, Ville St. Michel
Industrie Leadco, Limitée	5889 des Erables St., Montreal
Lawson Machine Works Ltd.	515 Tait St., St. Laurent
Liberty Smelting Works Ltd.	269 Prince St., Montreal
Metals & Alloys, (Quebec) Limited	1611 Bercy St., Montreal
Montebello Metal Ltd.	Montebello
Montreal Materials Processing Co. Ltd.	5270 Arnoldi St., Montreal
Ouellette, O. J., Co.	270 Vitre Est, Montreal
Richler Metal Co.	10244 Balzac Ave., Montreal
Richmond Machine Tool & Die Casting Co. Ltd.	5680 Fullum St., Montreal
Riverside Smelting & Refining Works, Ltd.	639 Farm St., Montreal
Standard Metal Co. Inc.	536 Dollard, Ville Lasalle
Steel Company of Canada, Limited, The	2320 Notre Dame St. W., Montreal
Ontario:	
Barber Die Casting Co. Limited	Hillyard St., Hamilton
Bernard, H. (Canada) Ltd.	464 Queen St. East, Toronto
Binkley Die Castings Ltd.	175 Samuelson Street, Galt
Brant Magnesium Co. Ltd.	80 Brant St., Hamilton
Canada Foils Limited	1891 Eglinton Ave. E., Toronto
Canada Metal Co. Ltd., The	721 Eastern Ave., Toronto

Directory of Firms in the White Metal Alloys Industry, 1957 - Concluded

Name of firm	Location of plant
Ontario—Concluded:	
Canadian Magnesium Products Ltd.	225 Concession Rd., Preston
Castcraft Mfg. Co.	124 Manville Rd. Scarboro
Cohen, I., & Co. Ltd.	594 Montreal St., Kingston
Cramco Alloy Sales	80 Sinnott Rd., Scarborough
Dominion & Monarch Type Ltd.	34 Mercer, Toronto
Dominion Die Casting Ltd.	Libby St., Wallaceburg
Dundas Die Casters Ltd.	James St., Dundas
Federated Metals Canada Ltd.	1110 Birchmont Rd., Scarboro
General Impact Extrusions Ltd.	43 Drummond St., Toronto
General Smelting Company of Canada, Ltd.	Wilcox St., Hamilton
Grenville Castings Limited	Merrickville
Hewitt Metals Corporation, Limited	1554 McDougall Ave. E., Windsor
Kester Solder Company of Canada Limited	51 Bruce St., Brantford
Lakeshore Die Casting Ltd.	Queen Elizabeth Highway, Oakville
Last Minute Mfg. Co. Ltd.	Wellington St. N., Thorold
Light Alloys Limited	Haley
Magline of Canada Ltd.	Highway 17, Renfrew
Metals & Alloys Limited	Wicksteed Ave., Leaside, Toronto
Modern Containers Limited	1190 Birchmont Rd., Scarborough
Moore Type Foundry Limited	431 King St. W., Toronto
Newburg Die Castings	29A Birch Ave., Toronto
Pressure Castings of Canada Limited	67 Main St. S., Weston
Pressure W. M.D. Castings Co. Ltd.	305 Bering Ave., Toronto
Prince & Smith Type Foundry	113 St. Patrick St., Toronto
Schultz Die Casting Co. of Canada Limited	Wallaceburg
Standard Metal Co.	Rear 32 Sullivan, Toronto
Sun Tube of Canada Ltd.	145 Spruce St., Ottawa
Toronto Refiners & Smelters Ltd.	28 Bathurst St., Toronto
Manitoba:	
Canada Metal Company Limited, The	1255 St. James St., Winnipeg
Diecast Products Ltd.	1085 Winnipeg Ave., Winnipeg
Union Metal Company Limited, The	654 McGee St., Winnipeg
Alberta:	
Canada Metal Company Ltd., The	5524—4th St. S.E., Calgary
British Columbia:	
Canadian Lead & Alloys Ltd.	5840 Douglas Road, North Burnaby
Canada Metal Company Limited, The	1428 Granville St., Vancouver
Metal Distributors Ltd.	1416 Franklin St., Vancouver
Metalex Ltd.	251—No. 5 Rd., Vancouver

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