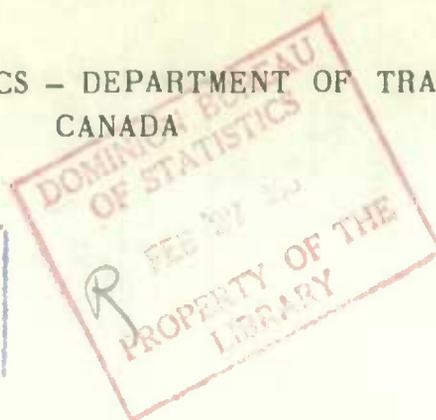


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THE WHITE METAL PRODUCTS INDUSTRY

1949

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NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada—mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

- I Summary Report on Manufacturing Industries
- II Manufacturing Industries by Geographical Distribution
- III Foods and Beverages
- IV Tobacco and Tobacco Products
- V Rubber Products
- VI Leather Products
- VII Miscellaneous Manufactures
- VIII Textiles
- IX Wood and Paper Products
- X Printing Trades
- XI Operations in the Woods
- XII Iron and Steel Products
- XIII Transportation Equipment
- XIV Non-ferrous Metal Products
- XV Electrical Apparatus and Supplies
- XVI Non-metallic Mineral Products
- XVII Products of Petroleum and Coal
- XVIII Chemicals and Allied Products

The present report belongs in Group XIV. 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 Non-ferrous Smelting and Refining Industry
- G The Miscellaneous Non-ferrous Metal Products Industry

THE WHITE METAL PRODUCTS INDUSTRY

1949

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.

Forty-seven factories reported in this group in 1949 and the value of their output was \$45,478,527. This total represented a decline of 8.4 per cent from the 1948 value of \$49,641,787.

Of the total output during the year under review, 56 per cent came from the 27 plants in Ontario, 39 per cent from the 14 plants in Quebec, and 5 per cent from the 3 plants in Manitoba and 3 in British Columbia.

Employment was afforded to a monthly average of 3,908 people, including 1,149 on salaries and 2,759 on wages. Salaries for the year amounted to \$2,214,739 and wages to \$5,628,434, a total of \$7,843,173. In the previous year, the 3,319 workers were paid \$6,981,935.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$30,643,550 delivered at the works. Included in these materials were 41,160 tons of scrap metals at \$9,600,840; 24,535 tons of pig lead at \$7,916,862; 1,494 tons of pig tin at \$2,835,482; 9,895 tons of aluminum at \$3,405,872; 7,778 tons of zinc spelter at \$1,993,620, and other metals at \$2,439,779.

Production included 23,264 tons of refined metals (recovered from scrap) valued at \$7,615,345; 4,739 tons of solders at \$4,409,653; 3,906 tons of type and type metal at \$1,768,434; 1,720 tons of babbitt metal at \$1,176,256; die castings at \$5,013,270; 2,263 tons of lead pipe at \$1,096,842; 2,492 tons of lead sheet at \$1,072,653, and other lines, such as metal foil, moulded shot, collapsible tubes, toys, etc.

NON-FERROUS METAL PRODUCTS

TABLE 1. Principal Statistics of the White Metal Products Industry, 1945-1949

Year	Number of plants	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
			\$	\$	\$	\$
1945.....	41	2,929	4,560,581	343,085	13,718,455	23,222,129
1946.....	47	3,414	5,600,124	430,560	15,851,099	26,128,907
1947.....	47	3,097	6,024,239	530,573	24,256,664	37,435,177
1948.....	47	3,319	6,981,935	688,113	35,312,992	49,641,787
1949.....	47	3,908	7,843,173	704,742	30,643,550	45,478,527
Per cent change, 1949 from 1948...	—	+17.7	+12.3	+2.4	-13.2	-8.4

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, 1948 and 1949

Province	Number of plants	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
			\$	\$	\$	\$
1948						
Quebec.....	16	841	1,899,015	176,259	13,600,585	18,431,434
Ontario.....	26	2,365	4,827,461	477,275	19,073,759	27,899,800
Manitoba.....	2	113	255,459	34,579	2,638,648	3,310,553
British Columbia.....	3					
Canada.....	47	3,319	6,981,935	688,113	35,312,992	49,641,787
1949						
Quebec.....	14	1,396	2,264,384	194,121	12,020,092	17,620,965
Ontario.....	27	2,402	5,332,918	477,136	16,769,925	25,519,785
Manitoba.....	3	53	112,137	20,571	1,181,108	1,446,193
British Columbia.....	3	57	133,734	12,914	672,425	891,584
Canada.....	47	3,908	7,843,173	704,742	30,643,550	45,478,527

TABLE 3. Products Made in the White Metal Products Industry, 1948 and 1949

Product	1948		1949	
	Quantity	Selling value	Quantity	Selling value
	lb.	\$	lb.	\$
Refined Metals (reclaimed or remelted):				
Aluminum.....	8,275,441	1,548,978	7,478,482	1,272,241
Lead (antimonial).....	30,717,284	5,733,168	27,558,764	4,431,248
Lead (common).....	9,599,936	1,843,593	8,193,297	1,337,642
Tin.....	157,161	143,860	193,223	203,966
Zinc.....	2,887,995	322,547	3,104,177	370,248
Other metals.....	—	24,661	—	—
Alloys:				
Babbitt.....	5,279,925	1,733,627	3,419,651	1,176,256
Brass.....	5,685,257	1,048,930	4,039,151	708,649
Bronze.....	8,359,135	1,677,944	5,926,499	1,123,647
Copper alloys, not elsewhere specified.....	718,930	134,488	163,526	38,289
Lead alloys, not elsewhere specified.....	18,188,219	3,565,598	22,852,611	3,895,332
Solders.....	10,475,406	4,510,283	9,467,628	4,409,653
Tin alloys, not elsewhere specified.....	12,669	8,964	15,256	12,326
Type and type metal.....	8,601,466	1,824,902	7,812,131	1,768,434
Die casting alloy.....	10,559,801	1,743,199	8,860,308	1,370,830
Zinc alloys, not elsewhere specified.....	2,900,079	632,858	1,395,464	213,776
Other non-ferrous alloys.....	1,375,398	292,812	2,950,073	555,260
Castings:				
Die castings:				
Aluminum-base alloy.....	979,882	565,401	1,061,008	685,928
Zinc-base alloy.....	7,455,876	3,516,696	9,348,342	4,220,290
Other metal base.....	—	623,787	—	107,052
Other castings:				
Brass and bronze.....	283,743	126,770	568,123	324,625
Lead.....	315,874	93,516	195,745	52,614
Other.....	—	454,380	—	398,162
Lead products:				
Pipe.....	7,269,315	1,614,106	4,525,987	1,096,842
Sheets.....	6,393,367	1,326,441	4,984,646	1,072,653
Traps and fittings.....	1,311,510	474,613	1,308,969	482,657
Miscellaneous, including bullet wire shot, etc.....	—	1,456,798	—	986,120
Scrap and dross.....	862,450	105,872	1,060,597	154,499
All other products ¹	—	12,492,995	—	13,009,288
Total.....	—	49,641,787	—	45,478,527

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 Products Industry, 1948 and 1949

Material	1948		1949		
	Quantity	Cost at works ¹	Quantity	Cost at works ¹	
		\$		\$	
Metals (other than scrap):					
Aluminum:					
Ingots:					
Primary or virgin.....	lb.	16,218,948	2,439,814	17,381,711	2,769,960
Secondary (from scrap).....	lb.	171,719	27,030	185,866	19,642
Other forms.....	lb.	3,431,660	850,027	2,222,161	616,270
Antimony.....	lb.	1,401,260	488,136	1,366,727	454,674
Arsenic.....	lb.	30,927	3,431	34,828	5,708
Bismuth.....	lb.	30,512	61,253	19,172	37,525
Brass, all forms.....	lb.	82,165	23,008	32,535	8,800
Bronze, all forms.....	lb.	1,179	583	440	88
Cadmium.....	lb.	70,389	138,418	66,981	133,178
Copper ingots and slabs:					
Primary or virgin.....	lb.	211,740	45,159	198,900	34,918
Secondary (from scrap).....	lb.	18,122	3,683	178,422	27,777
Die casting alloy.....	lb.	3,886,685	640,294	4,899,699	789,558
Lead, pig:					
Pure:					
Primary or virgin.....	lb.	51,385,807	8,794,950	44,065,565	7,132,475
Secondary (from scrap).....	lb.	1,988,653	337,452	2,963,019	446,667
Antimonial:					
Primary.....	lb.	3,441,860	789,604	869,410	174,244
Secondary (from scrap).....	lb.	1,652,559	263,130	1,172,540	163,476
Magnesium.....	lb.	382,684	96,391	192,535	58,587
Manganese metal.....	lb.	13,705	4,360	3,815	1,370
Nickel.....	lb.	732,843	256,702	932,827	385,818
Silicon metal.....	lb.	158,687	28,780	20,345	3,939
Silver, fine.....	Troy oz.	6,651	4,884	4,230	3,399
Tellurium.....	lb.	947	1,825	310	523
Tin, pig:					
Primary or virgin.....	lb.	3,444,385	3,055,470	2,974,391	2,823,882
Secondary (from scrap).....	lb.	20,433	16,876	13,208	11,600
Zinc slabs, bars and ingots:					
Primary or virgin.....	lb.	18,283,675	2,701,332	15,431,485	1,979,388
Secondary (from scrap).....	lb.	106,968	10,248	124,486	14,232
Other metals, except scrap but including alloys...	lb.	—	584,557	—	533,425
Scrap metals of all kinds:					
Aluminum.....	lb.	8,602,318	1,006,547	8,769,205	921,916
Babbitt.....	lb.	3,237,777	586,924	3,177,099	580,820
Brass.....	lb.	7,359,004	803,461	2,655,137	258,180
Bronze.....	lb.	3,028,857	408,811	3,467,306	450,072
Copper.....	lb.	5,142,735	827,010	3,750,839	553,728
Lead:					
Battery plates and lugs.....	lb.	29,125,701	3,313,152	25,636,246	2,408,122
Dross.....	lb.	3,568,911	421,164	2,701,099	204,873
Other.....	lb.	20,434,027	2,504,946	19,644,581	2,171,921
Magnesium.....	lb.	7,706	571	233,215	23,949
Solder.....	lb.	1,326,301	426,018	1,624,879	472,020
Tin.....	lb.	150,161	93,139	152,504	87,659
Type metal.....	lb.	4,978,215	740,772	5,205,197	868,707
Zinc.....	lb.	1,340,515	108,893	1,404,131	124,503
Zinc dross.....	lb.	4,022,890	294,911	3,899,565	291,885
Other scrap, including scrap unspecified by kind	—	—	201,220	—	182,485
Shipping containers.....	—	—	107,875	—	128,721
All other materials.....	—	—	1,800,181	—	2,282,866
Total.....	—	—	35,312,992	—	30,643,550

1. Includes freight, duty, taxes, etc.

TABLE 5. Production of Babbitt, Solders, Type and Type Metal, 1940-1949 (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
	pounds	\$	pounds	\$	pounds	\$
1940.....	3,214,694	847,791	6,460,679	1,716,359	4,342,916	415,531
1941.....	4,353,252	1,066,447	8,781,169	2,491,569	5,377,059	501,694
1942.....	4,182,882	1,104,772	7,624,770	1,842,640	4,150,069	447,079
1943.....	3,826,064	984,920	8,223,498	1,948,163	5,996,676	547,878
1944.....	4,100,724	847,005	8,447,480	2,004,955	5,118,068	515,737
1945.....	4,409,033	950,407	7,156,668	1,814,494	6,563,071	686,094
1946.....	5,077,738	1,386,295	7,475,951	2,102,508	6,565,831	727,537
1947.....	6,511,921	1,961,280	10,153,577	3,104,615	7,761,868	1,376,819
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

TABLE 6. Imports of Lead, Tin and Zinc and their Products, 1948 and 1949.

Item	1948		1949		
	Quantity	Value	Quantity	Value	
		\$		\$	
Lead and its Products:					
Lead in pigs and blocks.....	lb.	116,366	19,830	4,307,432	557,711
Lead, old and scrap.....	lb.	36,231	3,361	887,047	98,190
Lead in bars and sheets.....	lb.	8,211	2,237	11,187	2,565
Lead pipe.....	lb.	—	—	1,444	395
Lead capsules for bottles.....	—	—	39,229	—	60,321
Shot and bullets, lead.....	lb.	3,164	1,095	9,020	2,517
Manufactures of lead, n.o.p.....	—	—	225,106	—	222,549
Tin and its Products:					
Tin in blocks, pigs or bars.....	cwt.	80,588	7,898,335	82,332	7,861,709
Tinfoil.....	lb.	2,681	1,919	5,788	5,550
Collapsible tubes.....	—	—	36,240	—	43,067
Zinc and its Products:					
Zinc in blocks, pigs, bars and rods, and zinc plates, n.o.p.....	cwt.	325	7,325	837	22,648
Zinc strip and sheets, and zinc plates for marine boilers.....	cwt.	58,650	1,070,153	42,087	858,774
Zinc dust.....	cwt.	4,779	78,583	7,272	130,257
Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries.....	—	—	393,859	—	424,156
Zinc manufactures of, n.o.p.....	—	—	1,447,452	—	1,643,549
Alloys, n.o.p.:					
Babbitt metal in blocks, bar, plates and sheets.....	cwt.	464	25,489	884	29,696
Britannia metal, manufactures of, not plated.....	—	—	20,165	—	16,397
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.	181,105	166,678	216,814	141,531
Metal alloy slugs, cast, with diamonds or diamond chips embedded therein, as for the mould, and metal alloy strip.....	—	—	56,160	—	81,095
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire.....	lb.	1,565,500	906,051	681,224	418,946
Alloys of copper.....	—	—	310,011	—	182,511
Alloys of magnesium.....	—	—	73,198	—	63,755
Type and Type Metal:					
Type metal, in blocks, bars, plates and sheets.....	lb.	2,140	220	132	46
Type for printing, including chases, quoins and slugs of all kinds.....	—	—	180,502	—	250,342

NON-FERROUS METAL PRODUCTS

TABLE 7. Exports of Lead and Zinc and their Products, 1948 and 1949

Item	1948		1949	
	Quantity	Value \$	Quantity	Value \$
Lead in pigs, refined lead..... cwt.	2,075,243	32,758,514	2,270,671	36,725,204
Lead scrap..... cwt.	—	—	38,121	419,327
Lead pipe and tubing..... cwt.	—	—	5,416	85,699
Lead manufactures..... —	—	361,745	—	215,435
Zinc spelter..... cwt.	2,897,730	36,685,950	3,366,136	42,482,982
Zinc scrap, dross and ashes..... cwt.	144,371	899,061	120,485	653,756
Zinc, manufactures of..... —	—	159,232	—	162,203

TABLE 8. Employees and their Earnings in the White Metal Products Industry, by Provinces, 1948 and 1949

Province	Average number of employees					Earnings		
	Office and Supervisory		Production workers		Total	Office and Supervisory	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1948								
Quebec.....	138	61	612	30	841	569,835	1,329,180	1,899,015
Ontario.....	268	108	1,526	463	2,365	1,131,744	3,695,717	4,827,461
Manitoba.....	10	19	79	5	113	78,366	177,093	255,459
British Columbia.....								
Canada.....	416	188	2,217	498	3,319	1,779,945	5,201,990	6,981,935
1949								
Quebec.....	538	133	647	78	1,396	746,830	1,517,554	2,264,384
Ontario.....	320	125	1,494	463	2,402	1,395,947	3,936,971	5,332,918
Manitoba.....	5	7	35	6	53	29,902	82,235	112,137
British Columbia.....	8	13	34	2	57	42,060	91,674	133,734
Canada.....	871	278	2,210	549	3,908	2,214,739	5,628,434	7,843,173

Directory of Firms in the White Metal Products Industry, 1949

Name of Firm	Location of Plant
Quebec:	
Bel Art Metal Casting Reg'd.	1424 Pie IX Blvd., Montreal
Canada Metal Company Limited, The.....	6265 Notre Dame St. E., Montreal
Dominion Foils (Canada) Limited.....	Cap de la Madeleine
Eagle Smelting & Refining Works Limited.....	1095 Wellington St., Montreal
Industrie Leadco, Limitée.....	5889 Des Erables St., Montreal
Kay Metal Refining Works Reg'd.	301 Nazareth St., Montreal
Magnolia Metal Co. of Canada, Limited.....	2028 Manufacturers St., Montreal
Mayer Sealing Devices Reg'd.	11425 Cherrier St. E., Montreal
Montreal Die Casting Ltd.	378 Chambly Rd., Longueuil
Mount Royal Metal Co. Ltd.	1201 Mill St., Montreal
Richmond Machine Tool & Die Casting Co. Ltd.....	299 Colborne St., Montreal
Riverside Smelting & Refining Works, Ltd.....	639 Farm St., Montreal
Standard Metal Co. Ltd.	536 Dollard Ave., Ville La Salle
Steel Company of Canada, Limited, The.....	2320 Notre Dame St. W., Montreal
Ontario:	
Barber Die Casting Co. Limited.....	Cor. Hillyard & Munroe Sts., Hamilton
Binkley, T., Die Casting Co.	145 Beverly St., Galt
Canada Foils Limited.....	7 Fraser Ave., Toronto
Canada Metal Co. Ltd., The.....	721 Eastern Ave., Toronto
Canadian Hanson & Van Winkle Co. Ltd.	15-25 Morrow Ave., Toronto
Dominion and Monarch Type Foundry.....	109 Ontario St., Toronto
Frankel Brothers, Limited.....	East Don Roadway, Toronto
General Smelting Company of Canada, Ltd.	Wilcox St., Hamilton
Hewitt Metals Corporation, Limited.....	1554 McDougall Ave. E., Windsor
Kester Solder Company of Canada Limited.....	51 Bruce St., Brantford
Lakeshore Die Castings Ltd.	Queen Elizabeth Highway, Oakville
Last Minute Mfg. Co. Ltd.	Wellington St. N., Thorold
Leader Die Casting Co.	24 Mercer St., Toronto
Light Alloys Limited.....	Hall St., Renfrew
Lintet Metal Industries Limited.....	21 Argyle St., Renfrew
Metals & Alloys Limited.....	Wicksteed Ave., Leaside, Toronto
Modern Containers Limited.....	95 Sterling Road, Toronto, and Bayview Road, Ottawa
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
Prince & Smith Type Foundry.....	113 St. Patrick St., Toronto
Schultz Die Casting Co. of Canada Limited.....	Wallaceburg
Spooner Coppering Company Limited.....	John St., Port Hope
Sun Tube Corp. of Canada Ltd.	145 Spruce St., Ottawa
Toronto Refiners & Smelters Ltd.	28 Bathurst St., Toronto
Webster Bros. Limited.....	1161 King St., London
White Metal Die Castings.....	112 Ossington Ave., Toronto
Manitoba:	
Artic Sur-Flow Co. Ltd., The.....	614 Des Meurons St., St. Boniface
Canada Metal Company Limited, The.....	301 Chambers St., Winnipeg
Union Metal Company Limited, The.....	654 McGee St., Winnipeg
British Columbia:	
Atlas Smelting & Refining Co. Ltd.	321 East First Ave., Vancouver
Canada Metal Company Limited, The.....	1428 Granville St., Vancouver
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver

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