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THE WHITE METAL ALLOYS INDUSTRY
1959

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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Non-ferrous Metal Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

A — Annual

M — Monthly

Q — Quarterly

Catalogue number	Title	Price
41 - 202	Non-ferrous Metal Products — General Review (A) .....	.50
41 - 204	The Aluminum Products Industry (A) .....	.50
41 - 206	The Brass and Copper Products Industry (A) .....	.50
41 - 215	The White Metal Alloys Industry (A) .....	.50
41 - 211	The Jewellery and Silverware Industry (A) .....	.50
41 - 214	The Smelting and Refining Industry (A)50
41 - 218	The Miscellaneous Non-ferrous Metal Products Industry (A)25
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41 - 007	Non-ferrous Scrap Metal and Secondary Non-ferrous Ingot (Q)	per year 1.00
31 - 201	General Review of the Manufacturing Industries (A)	2.00
31 - 001	Inventories, Shipments and Orders in Manufacturing Industries (M)	per year 4.00
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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- ^p preliminary figures.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or

plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

THE WHITE METAL ALLOYS INDUSTRY

1959

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-four factories reported in this group in 1959 and the value of their output was \$53,554,334 an increase of 6.7 per cent over the \$50,177,719 reported in 1958.

Of the total output during the year under review 73.8 per cent came from the 39 plants in Ontario, 17.9 per cent from the 17 plants in Quebec and the remaining 8.3 per cent from the 8 plants located in Manitoba, Alberta and British Columbia.

Employment was afforded to a total of 2,919 people, including 664 on salaries and 2,255 on wages. Salaries for the year amounted to \$3,450,774 and wages to \$7,392,682, a total of \$10,843,456. In the previous year the 2,825 workers were paid \$10,576,075.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$32,862,935 delivered at the works. Included in these materials, were 59,825 tons of scrap metals at \$11,819,069; 18,137 tons of pig lead at \$3,736,549; 1,785 tons of pig tin at \$3,415,784; 5,070 tons of aluminum at \$3,006,339; 10,762 tons of zinc spelter at \$2,473,078 and other metals at \$8,412,116.

Factory shipments included refined metals (recovered from scrap) valued at \$11,296,922; 5,834 tons of solders at \$5,132,985; 5,570 tons of type and type metal at \$2,959,477; 574 tons of babbitt metal at \$644,840, die castings at \$8,062,682; 1,233 tons of lead pipe at \$680,196; 2,216 tons of lead sheet at \$862,626 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 1929-59 and by Provinces, 1958 and 1959

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	3,493,049
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	3,883,287	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	9,947,248	26,128,907
1949	47	3,428	7,843,173	704,742	30,643,550	14,130,235	45,478,527
1955	60	3,102	10,496,152	852,309	38,099,192	24,384,056	62,505,196
1956	58	3,199	11,424,043	975,391	41,590,230	20,180,300	62,515,219
1957	61	3,154	11,258,160	1,008,437	37,734,175	17,856,056	56,969,191
1958							
Quebec	17	461	1,668,587	137,293	6,034,797	2,584,284	8,862,029
Ontario	39	2,208	8,303,441	779,878	21,751,867	14,150,797	36,955,605
Manitoba	3	77	249,231	48,895	1,304,572	613,913	1,960,706
Alberta	1	79	354,816	32,129	1,214,156	1,151,715	2,399,379
British Columbia	4						
Canada	64	2,825	10,576,075	998,200	30,305,392	18,505,709	50,177,719
1959							
Quebec	17	422	1,572,296	133,361	6,622,290	2,890,381	9,573,250
Ontario	39	2,344	8,644,444	880,669	23,618,805	15,225,482	39,494,744
Manitoba	3	72	273,801	47,024	1,482,072	608,346	2,111,739
Alberta	1	75	352,915	27,669	1,139,768	1,248,345	2,374,601
British Columbia	4						
Canada	64	2,919	10,843,456	1,088,723	32,862,935	19,973,054	53,554,334

¹ See note 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 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Quebec	738,135	123,583	658,362	1,525,080
Ontario	3,409,965	795,046	2,091,001	6,296,012
Other provinces	368,919	67,422	283,700	720,041
Canada	4,517,019	991,051	3,033,063	8,541,133
Closing:				
Quebec	587,963	95,643	754,084	1,447,690
Ontario	3,254,227	789,610	2,326,649	6,370,486
Other provinces	378,753	57,619	360,887	797,264
Canada	4,220,948	942,872	3,451,620	8,615,440

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 1959 does not necessarily agree with the closing inventory for 1958 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, 1958 and 1959

Product	1958		1959	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
	lb.	\$	lb.	\$
Refined metals (reclaimed or remelted):				
Aluminum	10,897,692	3,292,981	12,311,701	3,645,963
Lead (antimonial)	34,454,824	4,124,700	39,041,779	4,521,464
Lead (common)	15,803,220	2,039,639	16,195,510	1,830,196
Tin	272,294	277,348	325,692	347,464
Zinc	5,840,892	602,701	7,629,677	931,472
Other metals .....	..	138,238	..	20,363
Alloys:				
Babbitt	1,594,628	763,846	1,147,060	644,840
Brass and bronze ingots	6,903,398	1,715,236	8,374,307	2,193,715
Copper alloys, not elsewhere specified	2,650,407	696,614	2,044,182	555,569
Lead alloys, not elsewhere specified	801,252	98,462	697,251	96,016
Solders	11,435,046	5,032,979	11,667,264	5,132,985
Tin alloys, not elsewhere specified	364,812	140,567	72,490	27,845
Type and type metal	6,918,290	2,373,043	11,140,810	2,959,477
Die casting alloys	11,188,908	1,553,126	12,731,006	1,935,058
Zinc alloys, not elsewhere specified	990,038	138,311	1,297,259	204,468
Other non-ferrous alloys .....	..	284,895	..	325,424
Castings:				
Die castings:				
Of aluminum-base alloy	2,327,269	1,453,548	2,341,858	1,743,296
Of zinc-base alloy	14,379,489	6,017,214	14,112,518	6,260,381
Of other metal base	83,927	52,814	74,813	59,005
Other castings .....	..	1,070,097	..	672,768
Lead products:				
Pipe	2,368,422	530,802	2,465,125	680,196
Sheets	5,715,985	1,246,004	4,432,247	862,626
Traps and fittings	1,146,073	520,429	1,507,473	552,943
Miscellaneous, including bullet wire, shot, etc. ..	..	987,445	..	1,281,118
All other products ¹ .....	..	15,026,680	..	16,069,682
Totals .....	..	50,177,719	..	53,554,334

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, 1958 and 1959

Material	1958		1959	
	Quantity	Cost at plant	Quantity	Cost at plant
		\$		\$
Metals (other than scrap):				
Aluminum:				
Ingots:				
Primary or virgin	lb. 3,500,121	796,240	2,995,565	670,169
Secondary (from scrap)	" 1,591,850	331,068	2,911,635	563,739
Other forms	" 5,083,402	2,005,616	4,233,528	1,772,431
Antimony	" 922,279	196,735	968,578	198,151
Arsenic (elemental and oxide)	" 80,702	10,156	48,596	8,751
Bismuth	" 23,732	52,491	30,389	66,691
Brass, and bronze, all forms	" 751,115	213,060	22,838	6,952
Cadmium	" 3,406	5,692	5,291	8,240
Copper ingots and slabs:				
Primary or virgin	" 183,339	45,579	2,180	633
Secondary (from scrap)	" —	—	36,999	6,805
Die casting alloys	" 6,827,768	898,749	6,290,477	866,454
Lead, pig:				
Pure:				
Primary or virgin	" 26,051,475	3,005,319	28,847,672	3,040,988
Secondary (from scrap)	" 2,302,531	226,530	3,878,355	318,085
Antimonial:				
Primary	" 2,266,459	301,673	2,778,915	322,660
Secondary (from scrap)	" 208,468	46,820	769,103	54,816
Magnesium	" 423,025	150,738	131,167	37,771
Manganese metal	" 19,222	8,114	15,249	5,983
Nickel	" 17,701	13,604	28,012	21,653
Silicon metal	" 402,051	80,852	439,933	84,713
Silver, fine	troy oz. 17,348	16,226	16,337	15,539
Tellurium	lb. 1,016	1,824	839	1,711
Tin, pig:				
Primary or virgin	" 3,473,965	3,221,224	3,587,601	3,414,584
Secondary (from scrap)	" 292	286	1,494	1,200
Zinc slabs, bars and ingots:				
Primary or virgin	" } 20,018,524	2,261,319	21,524,372	2,473,078
Secondary (from scrap)	" }			
Other metals, except scrap, but including alloys	" 941,905	169,961	956,793	212,690
Scrap metals of all kinds:				
Aluminum	" 12,687,629	1,972,437	15,462,695	2,488,648
Babbitt	" 2,993,948	494,997	2,761,019	486,087
Brass and bronze	" 8,252,914	1,374,371	10,088,988	1,820,451
Copper	" 4,324,611	814,082	2,799,097	641,983
Lead	" 67,761,036	4,468,009	65,276,902	4,033,933
Magnesium	" 76,999	10,163	48,611	7,721
Solder	" 817,275	184,747	1,004,439	160,899
Tin	" 238,773	120,101	92,596	42,431
Type metal	" 7,503,134	1,313,122	7,855,535	1,315,963
Zinc	" 3,643,134	184,005	4,973,756	278,896
Zinc dross	" 6,342,375	294,189	7,332,575	348,484
Other scrap, including scrap unspecified by kind	" 1,826,510	184,411	1,954,295	193,573
Shipping containers	" ..	375,585	" ..	373,756
All other materials ¹	" ..	4,455,297	" ..	6,495,624
Totals	" ..	30,305,392	" ..	32,862,935

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$300,000. The total value of materials used by these firms was \$2,009,801, and this amount is included in "All other materials".

TABLE 5. Production¹ of Babbitt, Solders, Type and Type Metal, 1950-59 (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.	\$
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
1958	1,594,628	763,846	11,435,046	5,032,979	6,918,290	2,373,043
1959	1,231,590	702,124	11,700,152	5,151,006	11,140,810	2,959,477

¹ Factory shipments since 1952.

TABLE 6. Principal Statistics of the White Metal Alloys Industry, classified according to Type of Ownership, 1958 and 1959

Type	Estab-lish-ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
1958					
Individual ownership	3	10	26,494	34,279	63,818
Partnerships	6	28	91,322	138,701	266,601
Incorporated companies	55	2,787	10,458,259	30,132,412	49,847,300
Totals	64	2,825	10,576,075	30,305,392	50,177,719
1959					
Individual ownership	5	20	62,178	76,998	161,520
Partnerships	4	16	62,141	122,352	216,311
Incorporated companies	55	2,883	10,719,137	32,663,585	53,176,503
Totals	64	2,919	10,843,456	32,862,935	53,554,334

TABLE 7. Principal Statistics of the White Metal Alloys Industry in Canada, grouped according to Value of Factory Shipments, 1958 and 1959

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		
1958					
Under \$25,000	8	33	81,213	40,752	135,447
\$ 25,000 to \$ 49,999	4	15	40,853	83,556	128,788
50,000 " 99,999	7	67	240,513	253,367	545,801
100,000 " 199,999	14	130	426,275	1,298,080	2,007,698
200,000 " 499,999	9	217	699,962	1,214,067	2,514,985
500,000 " 999,999	7	447	1,540,382	2,414,541	5,077,272
1,000,000 " 4,999,999	13	1,916	7,546,877	25,001,029	39,767,728
5,000,000 and over	2				
Totals	64	2,825	10,576,075	30,305,392	50,177,719
1959					
Under \$25,000	6	17	39,090	23,302	97,282
\$ 25,000 to \$ 49,999	7	64	173,236	134,765	268,260
50,000 " 99,999	9	67	245,730	424,249	773,794
100,000 " 199,999	12	102	343,690	1,105,920	1,691,379
200,000 " 499,999	9	326	1,099,046	1,278,161	2,913,405
500,000 " 999,999	5	290	948,145	2,054,065	3,890,450
1,000,000 " 4,999,999	14	2,049	7,981,799	27,842,473	43,919,764
5,000,000 and over	2				
Head office	—	4	12,720	—	—
Totals	64	2,919	10,843,456	32,862,935	53,554,334

TABLE 8. Employees and their Earnings in the White Metal Alloys Industry, by Provinces, 1958 and 1959

Province	Employees					Earnings		
	Office and supervisory		Production workers		Total	Office and supervisory	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1958								
Quebec	87	25	301	48	461	547, 121	1, 121, 466	1, 668, 587
Ontario	353	118	1, 324	413	2, 208	2, 561, 179	5, 742, 262	8, 303, 441
Manitoba	14	7	52	4	77	81, 894	167, 337	249, 231
Alberta and British Columbia	17	9	53	—	79	142, 519	212, 297	354, 816
Canada	471	159	1, 730	465	2, 825	3, 332, 713	7, 243, 362	10, 576, 075
1959								
Quebec	74	21	280	47	422	470, 889	1, 101, 407	1, 572, 296
Ontario	402	116	1, 343	483	2, 344	2, 751, 357	5, 893, 087	8, 644, 444
Manitoba	16	8	50	4	78	89, 385	184, 416	273, 801
Alberta and British Columbia	18	9	48	—	75	139, 143	213, 772	352, 915
Canada	510	154	1, 721	534	2, 919	3, 450, 774	7, 392, 682	10, 843, 456

TABLE 9. Production Workers, by Months, 1959

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	1, 519	431
February	1, 529	443
March	1, 490	510
April	1, 535	512
May	1, 549	528
June	1, 576	537
July	1, 600	523
August	1, 627	510
September	1, 602	547
October	1, 436	469
November	1, 439	479
December	1, 458	505
Average for establishments reporting monthly detail	1, 530	499
Average estimated for small establishments ²	191	35
Average for all establishments	1, 721	534

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000, and over.

² For establishments generally reporting value of shipments of less than \$300,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 10. Capital and Repair Expenditures in the White Metal Alloys Industry, 1955 - 59

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						
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	315	1,083	1,398	91	860	951	2,349
1958	164	867	1,031	108	1,052	1,160	2,191
1959 ^P	389	833	1,222	126	1,095	1,221	2,443

TABLE 11. Fuel and Electricity Used in the White Metal Alloys Industry, 1959

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal - Imported	ton 761	11,544
Anthracite coal	" 248	3,893
Lignite coal	" 282	6,816
Coke	" 1,612	37,900
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 196,509	77,839
Fuel oil including kerosene or coal oil	" 2,261,535	306,719
Gas (a) Liquefied petroleum gases	" 129,453	26,823
(b) Other manufactured gas	M cu. ft. 93,705	22,648
(c) Natural gas	" 270,792	248,152
Other fuel	-	2,686
Electricity purchased	kwh. 23,882,874	254,521
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	89,182
3. All establishments:		
Total cost of fuel and electricity .....	...	1,088,723

¹ Establishments generally reporting value of shipments of \$300,000 and over.² Establishments generally reporting value of shipments of less than \$300,000.

TABLE 12. Imports of Lead, Tin and Zinc and their Products, 1958 and 1959

Item	1958		1959		
	Quantity	Value	Quantity	Value	
		\$		\$	
Lead and its products:					
Lead in pigs and blocks	lb.	3,335,350	301,129	3,619,279	327,640
Lead, old and scrap	"	243,828	10,952	495,442	28,023
Lead in bars and sheets	"	98,975	12,608	262,193	30,581
Lead pipe		—	—	—	—
Lead capsules for bottles .....	..	40,001	..	24,748	—
Shot and bullets, lead .....	..	—	..	—	—
Manufactures of lead, n.o.p. ....	..	243,540	..	264,518	—
Tin and its products:					
Tin in blocks, pigs or bars	cwt.	77,516	7,060,387	93,711	9,181,672
Tin foil	lb.	20,969	23,097	17,946	21,372
Collapsible tubes .....	..	53,377	..	64,793	—
Zinc and its products:					
Zinc pig, slabs, blocks, anodes		12,424	121,883	16,790	158,036
Zinc bars, rods, plates, sheets		21,999	553,176	23,431	605,070
Zinc dust	cwt.	10,872	154,152	13,493	198,134
Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries .....	..	234,027	..	191,802	—
Zinc, manufactures of, n.o.p. ....	..	2,184,964	..	2,239,835	—
Alloys, n.o.p.:					
Babbitt metal in blocks, bars, plates and sheets	cwt.	224	19,465	657	30,276
Britannia metal, manufactures of, not plated .....	..	19,504	..	21,241	—
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.	71,251	160,259	69,956	224,465
Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould and metal alloy strip .....	..	14,298	..	16,426	—
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire	lb.	1,553,083	878,524	1,563,422	907,226
Alloys of copper .....	..	403,335	..	482,014	—
Alloys of magnesium .....	..	255,768	..	273,021	—
Type and type metal:					
Type metal, in blocks, bars, plates and sheets	lb.	—	—	—	—
Type for printing, including chases, quoins and slugs of all kinds .....	..	240,542	..	270,656	—

TABLE 13. Exports of Lead and Zinc and their Products, 1958 and 1959

Item	1958		1959		
	Quantity	Value	Quantity	Value	
		\$		\$	
Lead in pigs, refined lead	cwt.	1,847,014	15,376,517	1,845,049	15,183,277
Lead scrap	"	8,635	44,997	60,498	471,411
Lead pipe and tubing	"	116	2,631	159	3,582
Lead manufactures	"	..	24,074	..	57,856
Zinc spelter	cwt.	3,914,157	33,427,794	3,591,046	33,731,652
Zinc scrap, dross and ashes	"	111,818	379,146	119,674	447,365
Zinc, manufactures of .....	..	..	125,408	..	178,114

Directory of Firms in the White Metal Alloys Industry, 1959

Name of firm	Location of plant
Quebec:	
Associated Printers Supply Co.	988 St. James St., Montreal
Canada Metal Company Limited, The	6265 Notre Dame St. E., Montreal
Dominion Joints	5492 Blvd. Décarie, Montreal
Eagle Smelting & Refining Works Limited.....	1095 Smith St., Montreal
Eastern Die Casting Co. Reg'd.....	975 Décarie Blvd., Ville St. Laurent
Federated Metals Canada Ltd.	1400 Norman St., Lachine
Herlicon Metals & Plastics Inc.....	3815 Ruskin, Ville St. Michel
Kay Lead & Alloys Co.	7929 Dante Ave., Ville St. Michel
Liberty Smelting Works Ltd.	269 Prince St., Montreal
Metals & Alloys, (Quebec) Limited	1611 Bercy St., Montreal
Montebello Metal Ltd.....	Montebello
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:	
Ace Castings	51 Amlens Road, West Hill
Barber Die Casting Co. Limited	Hillyard St., Hamilton
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
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
E & S Quality Products	# 3 Highway, Cottam
Federated Metals (Canada) Ltd.....	1110 Birchmont Rd., Scarboro
General Impact Extrusions Ltd.	191 Evans Ave., Toronto
General Smelting Company of Canada, Ltd.	Wilcox St., Hamilton
Grenville Castings Limited	Merrickville
Hewitt Metals Corporation, Limited	1554 McDougall Ave. E., Windsor
J & K Zinc Die Casting Co. Ltd.....	48 Crockford Blvd., Scarborough
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
Mandler Mfg. Co.....	Malden Rd., Sandwich West
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

Directory of Firms in the White Metal Alloys Industry, 1959 — Concluded

Name of firm	Location of plant
Ontario—Concluded:	
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
Ram Refined Alloys Ltd.	167 Barton St. W., Hamilton
Schultz Die Casting Co. of Canada Limited	77 St. David St., Lindsay
Standard Metal Co.	Rear 32 Sullivan, Toronto
Sun Tube of Canada Ltd.	145 Spruce St., Ottawa
Toronto Refiners & Smelters Ltd.	28 Bathurst St., Toronto
Victor Metal Containers Ltd.	30 Bermondsey Rd., Toronto
Manitoba:	
Canada Metal Company Limited, The	1255 St. James St., Winnipeg
Diecast Products Ltd.	1085 Winnipeg Ave., Winnipeg
Metals & Alloys Ltd.	654 McGee St., Winnipeg
Alberta:	
Canada Metal Company Ltd., The	5524—4th St. S.E., Calgary
British Columbia:	
Canadian Lead & Alloys Ltd.	2345 Douglas Rd., North Burnaby
Canada Metal Company Limited, The	1428 Granville St., Vancouver
Metal Distributors Ltd.	7220 Government Rd., North Burnaby
Metalex Ltd.	251—No. 5 Rd., Vancouver

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