

DOMINION BUREAU OF STATISTICS - CANADA

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## THE LEAD, TIN AND ZINC PRODUCTS INDUSTRY IN CANADA, 1932.

Production from the Lead, Tin and Zinc Products Industry in Canada during 1932 was valued at \$3,498,049, according to a statement issued by the Dominion Bureau of Statistics at Ottawa. This output compares with \$4,137,600 in 1931 and \$5,178,583 in 1930.

During 1932 a total of 24 plants in Canada were classified to this industry which includes those concerns that were engaged chiefly in (a) the manufacture of white metal alloys such as babbitt metal, solders and type metal; (b) the manufacture of lead bars, sheet, pipe and fittings, antimonial lead, collapsible tubes, metal foil, and similar commodities; and (c) the refining of scrap metals to cover zinc, tin, lead and other non-ferrous base metals. These firms employed a capital amounting to \$4,434,722 and gave work to a monthly average of 532 people who were paid \$621,480 in salaries and wages. For the twelve month period the materials used in manufacturing cost \$1,935,507 and the value added by processing was \$1,562,542.

Among the products made in this industry were 3.7 million pounds of antimonial lead, 2.8 million pounds of lead bars and ingots, 2.8 million pounds of type and type metal, 2.1 million pounds of solders, 2.1 million pounds of lead pipe, 1.4 million pounds of babbitt metal, 1.2 million pounds of sheet lead, and other products including tin foil, collapsible tubes, lead traps and fittings, etc. Included in the metals recovered from scrap were 1.8 million pounds of copper, 1.6 million pounds of zinc, over half a million pounds of lead, 144,000 pounds of tin and 443,000 pounds of metal not specified as to kind.

Table 1 - PRINCIPAL STATISTICS OF THE LEAD, TIN AND ZINC PRODUCTS INDUSTRY IN CANADA,  
1928 - 1932.

Years	No. of plants	Capital employed	Average			Cost of materials	Selling value of products	Value added by manu- facturing
			number of em- ployees	Salaries and wages	at works			
1928 .....	25	\$ 4,673,882	644	\$ 759,603	\$ 4,105,167	\$ 5,493,360	\$ 1,388,193	
1929 .....	28	5,988,683	755	929,295	4,757,366	6,466,168	1,708,802	
1930 .....	23	4,612,408	614	734,650	3,813,569	5,178,583	1,365,014	
1931 .....	23	4,507,307	532	679,631	2,330,652	4,137,600	1,806,948	
1932 -								
Quebec .....	9	817,011	96	134,018	598,492	1,166,999	568,507	
Ontario .....	11	3,169,063	408	449,080	1,218,080	2,138,825	920,745	
Manitoba .....	2							
British Columbia .....	2	448,648	28	38,382	118,935	192,225	73,290	
CANADA .....	24	4,434,722	532	621,480	1,935,507	3,498,049	1,562,542	

Table 2 - CAPITAL EMPLOYED, 1931 and 1932.

Provinces	Inventory value		Operating capital		TOTAL
	Present value of lands, buildings, machinery, tools, etc.	of materials on hand, stock in process, fuel and other supplies	Inventory value of finished products on hand	(cash, bills and accounts receivable)	
<u>1931</u>	\$	\$	\$	\$	\$
Quebec .....	394,872	81,174	116,241	265,124	857,411
Ontario .....	1,833,466	378,090	264,456	721,745	3,197,757
Manitoba .....	)				
British Columbia..)	265,831	11,083	79,160	96,065	452,139
CANADA .....	<u>2,494,169</u>	<u>470,347</u>	<u>459,857</u>	<u>1,082,934</u>	<u>4,507,307</u>
<u>1932</u>					
Quebec .....	418,606	52,478	133,992	211,935	817,011
Ontario .....	1,797,198	329,675	301,737	740,453	3,169,063
Manitoba .....	)				
British Columbia..)	258,110	11,207	86,633	92,698	448,648
CANADA .....	<u>2,473,914</u>	<u>393,360</u>	<u>522,362</u>	<u>1,045,086</u>	<u>4,434,722</u>

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1931 and 1932.

	Average number of employees						Salaries and Wages		
	On salaries		On wages		TOTAL	Salaries	Wages	TOTAL	
	Male	Female	Male	Female					
<b>1931</b>									
Quebec .....	31	7	59	2	99	94,273	66,783	161,056	
Ontario .....	49	22	240	89	400	156,168	311,061	467,229	
Manitoba .....	7	7	19	..	33	23,613	27,733	51,346	
British Columbia)									
CANADA .....	87	36	318	91	532	274,054	405,577	679,631	
<b>1932</b>									
Quebec .....	25	5	65	1	96	72,008	62,010	134,018	
Ontario .....	50	25	238	95	408	150,286	298,794	449,080	
Manitoba .....	7	5	16	..	28	21,851	16,531	38,382	
British Columbia)									
CANADA .....	82	35	319	96	532	244,145	377,335	621,480	

Table 4 - WAGE-EARNERS, BY MONTHS, 1931 and 1932.

Months	1	9	1	1	9	3	2
	Male	Female	TOTAL	Male	Female	TOTAL	
January .....	350	82	432	355	98	453	
February .....	326	80	406	339	100	439	
March .....	315	89	404	326	93	419	
April .....	324	92	416	327	95	422	
May .....	325	90	415	318	98	416	
June .....	323	106	429	316	94	410	
July .....	312	108	420	298	92	390	
August .....	313	98	411	305	93	398	
September .....	298	79	377	303	92	395	
October .....	309	89	398	335	93	428	
November .....	319	92	411	306	93	399	
December .....	321	89	410	303	90	393	
AVERAGE .....	318	91	409	319	96	415	

Table 5 - NUMBER OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT CLASSED ACCORDING TO REGULAR HOURS WORKED PER WEEK, 1932. (Overtime not included)

Regular hours per week	Number of wage-earners	Regular hours per week	Number of wage-earners	
			1	9
40 hours or less .....	12	51 - 53 hours .....	6	
41 - 43 hours .....	..	54 hours .....	1	
44 hours .....	149	55 hours .....	10	
45 - 47 hours .....	..	56 - 59 hours .....	47	
48 hours .....	83	60 hours .....	41	
49 - 50 hours .....	120	Over 60 hours .....	4	

Table 6 - FUEL AND ELECTRICITY USED, 1931 and 1932.

Kind	Unit of measure	Quantity	1	9	3	1	1	9	3	2
			Cost at works	Quantity	Cost at works	\$	\$			
Bituminous coal - Canadian ..	short ton	356	2,263		306	2,179				
Imported ..	short ton	1,383	8,773		1,361	8,511				
Anthracite coal .....	short ton	37	613		41	576				
Coke .....	short ton	557	4,153		417	2,692				
Gasoline .....	Imp. gal.	2,332	582		2,299	540				
Kerosene .....	Imp. gal.	110	20		1,138	124				
Fuel oil .....	Imp. gal.	310,149	20,895		206,402	13,188				
Wood .....	cord	58	527		54	475				
Gas - manufactured .....	M cu.ft.	6,245	6,991		5,970	6,443				
Electricity purchased .....	K.W.H.	1,669,550	27,368		1,616,031	28,242				
TOTAL .....	---	...	72,185		...	62,970				

Table 7 - POWER EMPLOYED, 1931 and 1932.

	Number of units	1	9	3	1	Number of units	1	9	3	2
		Total power			Total power					
Electric motors operated by purchased power .....	234	2,954			205	2,950				
Boilers .....	3	130			3	130				

Table 8 - MATERIALS USED, 1931 and 1932.

Item	Unit of measure	1 9 3 1		1 9 3 2	
		Quantity	Cost at works	Quantity	Cost at works
Antimony - regulus .....	lb.	745,903	52,302	499,088	29,465
Lead, pig - From England .....	lb.	702,946	30,667	8,831	309
From United States .....	lb.	12,424	745	4,015	146
From Canada .....	lb.	11,679,826	492,235	6,348,735	222,294
Tin - pig, straits .....	lb.	1,735,238	481,796	1,751,688	466,737
Pig, other brands .....	lb.	624,803	164,205	495,134	131,948
Zinc spelter .....	lb.	301,282	12,990	381,851	15,594
Other metals (not including scrap) -					
Aluminium sheets, etc. ....	lb.	447,216	138,323	869,172	211,831
Copper bars, sheets, etc. ....	lb.	47,831	4,753	30,526	2,220
Nickel .....	lb.	58,964	17,092	32,443	8,907
Other metals .....	lb.	...	10,744	426,501	16,372
Scrap - Brass .....	lb.	620,421	30,163	556,082	17,164
Copper .....	lb.	918,844	69,199	1,336,992	58,714
Lead .....	lb.	10,787,359	237,934	5,119,169	64,73
Zinc .....	lb.	277,441	6,208	484,924	13,537
White metal alloys .....	lb.	340,248	19,834	1,821,462	123,042
Drosses .....	lb.	1,014,751	22,300	3,259,063	59,413
Kind, not specified .....	lb.	11,223,892	322,464	6,743,113	175,750
Shipping materials .....	-	...	2,157	...	10,529
All other materials .....	-	...	214,541	...	307,062
TOTAL .....	-	...	2,330,652	...	1,935,507

Table 9 - PRODUCTS MADE, 1931 and 1932.

Item	Unit of measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
Babbitt metal .....	lb.	2,011,315	432,506	1,413,699	255,058
Castings - Alloys, white metal .....	lb.	927,850	57,386	439,730	59,758
Aluminium .....	lb.	99,753	11,567	100,704	6,273
Brass .....	lb.	796,175	107,596	712,774	84,099
Bronze .....	lb.	17,270	2,238	137,409	6,243
Other (except lead) .....	lb.	57,146	25,716	2,378	14,689
Lead - Bars and ingots .....	lb.	2,900,711	150,247	2,816,392	102,075
Pipe .....	lb.	4,200,667	307,602	2,063,258	139,500
Sheet .....	lb.	2,373,606	183,472	1,228,298	94,040
Traps and fittings .....	lb.	645,739	275,317	467,946	236,628
Antimonial lead .....	lb.	3,369,612	150,849	3,725,854	136,842
Refined metals - Copper .....	lb.	1,125,169	88,049	1,776,990	78,773
Lead .....	lb.	237,604	14,945	532,089	31,777
Tin .....	lb.	91,740	25,737	144,191	40,364
Zinc .....	lb.	1,959,812	80,292	1,590,900	63,386
Other .....	lb.	438,201	38,508	443,744	21,759
Scrap sold .....	lb.	298,706	5,156	535,189	12,529
Solders of all kinds .....	lb.	2,235,221	398,378	2,084,447	353,361
Type and type metal .....	lb.	3,065,283	274,483	2,777,781	218,956
Other products (x) .....	-	...	1,507,556	...	1,540,039
TOTAL .....	-	...	4,137,600	...	3,498,049

(x) Includes metal foil, collapsible tubes, dropped and moulded shot, moulded tube and  
and bottle tops, etc.

Table 10 - IMPORTS INTO AND EXPORTS FROM CANADA OF LEAD, TIN, ZINC AND THEIR PRODUCTS, 1931 and 1932.

Item	Unit of measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
<u>IMPORTS -</u>			\$		\$
Lead, pig and block .....	lb.	256,443	8,724	28,398	1,436
Lead, bars and sheets .....	lb.	539,654	24,535	159,026	6,893
Lead, other and manufactures, n.o.p. -	...	170,561	...	138,512	
TOTAL LEAD AND ITS PRODUCTS .....	-	...	203,820	...	146,841
Tin, blocks, pigs or bars .....	cwt.	41,258	1,067,395	31,484	809,437
Tinfoil .....	lb.	27,167	12,095	6,749	3,293
Collapsible tubes .....	-	...	62,889	...	67,810
TOTAL TIN AND ITS PRODUCTS .....	-	...	1,142,379	...	890,540

Table 10 - IMPORTS INTO AND EXPORTS FROM CANADA OF LEAD, TIN, ZINC AND THEIR PRODUCTS,  
1931 and 1932. concluded.

Item	Unit of measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
<u>IMPORTS - concluded</u>					
Zinc, blocks, bars, rods and zinc plate, n.o.p. ....	lb.	403,205	12,798	123,476	3,248
Zinc strip and sheets and zinc plate for marine boilers .....	lb.	4,013,796	272,012	4,070,523	273,359
Zinc dust .....	lb.	403,001	28,783	530,628	40,623
Zinc, other, and manufactures, n.o.p. -	-	...	134,453	...	82,158
TOTAL ZINC AND ITS PRODUCTS .....	-	1..	448,046	...	399,388
<u>EXPORTS -</u>					
Lead, metallic, contained in ore,....cwt.	cwt.	44,217	176,964	37,133	148,518
Lead in pigs, refined lead, etc. ....cwt.	cwt.	2,164,258	4,482,812	2,139,907	3,269,121
TOTAL LEAD AND ITS PRODUCTS ....cwt.	cwt.	2,208,475	4,659,776	2,177,040	3,417,639
Tin - NIL					
Zinc, contained in ore .....	cwt.	...	...	...	...
Zinc spelter .....	cwt.	2,380,180	5,554,511	1,753,218	3,852,990
Zinc scrap, dross and ashes .....	cwt.	10,931	10,018	8,279	9,522
TOTAL ZINC AND ITS PRODUCTS .....	cwt.	2,391,111	5,564,529	1,761,497	3,862,512

DIRECTORY OF FIRMS INCLUDED IN THE LEAD, TIN AND ZINC PRODUCTS INDUSTRY IN CANADA,  
1932.

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>QUEBEC -</u>	
Atlas Metal & Alloys Co. of Canada, Ltd.	421 St. Henry St., Montreal
Dominion Smelting and Refining Co. Ltd.	Marien Ave., Montreal East
Eagle Smelting and Refining Works Ltd.	400 Richmond St., Montreal
Liberty Smelting Works	267 Prince St., Montreal
Magnolia Metal Co. of Canada, Ltd.	2028 Manufacturers St., Montreal
Mount Royal Metal Company, Ltd.	1205 Mill St., Montreal
Riverside Smelting & Refining Works	290 Bergeumont St., Limoilou
Robertson Lead Mfg. Co. Ltd., The	6265 Notre Dame St. E., Montreal
Steel Company of Canada, Ltd.	2320 Notre Dame St. W., Montreal
<u>ONTARIO -</u>	
Canada Foils Limited	7 Fraser Ave., Toronto
Canadian Hanson & Van Winkle Co. Ltd.	15 Morrow Ave., Toronto
Collapsible Tubes & Containers Ltd.	95 Sterling Rd., Toronto
Frankel Brothers, Ltd.	Don Road and Eastern Ave., Toronto
General Smelting Co. of Canada, Ltd.	Wilcox St., Hamilton
Hoyt Metal Co. of Canada, Ltd., and Canada Metal Co.	721 Eastern Ave., Toronto
Kester Solder Co. of Canada, Ltd.	51 Bruce St., Brantford
Modern Machine Co. Ltd.	344 Queen St., Ottawa
Moore Type Foundry	88 Richmond St. W., Toronto
Rahn Metals Ltd.	Regina St., North Bay
Spooner Copperine Company Ltd.	Port Hope
<u>MANITOBA -</u>	
Canada Metal Company Ltd.	301 Chambers St., Winnipeg
Union Metal Company Ltd.	405 Langside St., Winnipeg
<u>BRITISH COLUMBIA -</u>	
Canada Metal Company Ltd.	1428 Granville St., Vancouver
Great Western Smelting Co. Ltd.	310 Prior St., Vancouver

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