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D. Gair
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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS

+++ *Census of Industry* +++

MINING, METALLURGICAL & CHEMICAL STATISTICS

THE

WHITE METAL PRODUCTS INDUSTRY

IN

CANADA

1946



OTTAWA
1948

Price 25 cents



Dominion Statistician:
 Director - Division of Census of Industry and Merchandising:
 Chief - Mining, Metallurgical and Chemical Statistics:

Herbert Marshall
 W. H. Losee
 H. McLeod

Annual Industry ReportManufactures of the Non-ferrous Metals GroupTHE WHITE METAL PRODUCTS INDUSTRY, 1946

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, slide fasteners, castings, 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.

Forty-seven factories reported in this group in 1946 and the value of their output was \$26,128,907. This total was 12.5 per cent above the 1945 value of \$23,222,129.

Of the total output during the year under review, 70 per cent came from the 25 plants in Ontario, 25 per cent from the 17 plants in Quebec, and 5 per cent from 2 plants in Manitoba and 3 in British Columbia.

Employment was afforded to a monthly average of 3,414 people including 597 on salaries and 2,817 on wages. Salaries for the year amounted to \$1,361,843 and wages to \$4,238,281, a total of \$5,600,124. In the previous year, the 2,929 workers were paid \$4,560,581 in salaries and wages.

Materials used in manufacturing, exclusive of fuel and electricity, cost \$15,851,099 delivered at the works. Included in these materials were about 37,536 tons of scrap metals at \$3,748,115; 32,626 tons of pig lead at \$3,935,223; 1,850 tons of pig tin at \$2,282,691; 3,527 tons of aluminum at \$1,160,469; 9,665 tons of zinc spelter at \$1,114,858, and other metals at \$1,567,281.

Production included 25,712 tons of refined metals (recovered from scrap) valued at \$3,840,669; 3,705 tons of solders at \$2,085,770; 3,282 tons of type and type metal at \$727,537; 2,409 tons of babbitt metal at \$1,304,689; die castings at \$2,400,255; 5,026 tons of lead pipe at \$899,950; 3,337 tons of lead sheet at \$580,369, and other lines, such as metal foil, slide fasteners, moulded shot, collapsible tubes, plastic bottle caps, toys, etc.

Table 1 - PRINCIPAL STATISTICS, 1936-1946

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
			\$	\$	\$	\$
1936	35	894	1,017,732	99,860	4,356,439	6,905,041
1937	38	1,222	1,360,216	108,519	5,749,842	9,011,283
1938	35	1,252	1,434,089	109,787	4,506,881	7,660,254
1939	35	1,347	1,586,182	121,185	4,927,693	8,937,165
1940	41	1,671	2,040,629	162,872	7,941,052	12,599,215
1941	43	2,343	3,114,179	273,427	13,795,427	21,307,949
1942	40	2,583	3,848,639	314,986	13,328,759	23,325,076
1943	36	2,790	4,120,334	336,494	12,495,881	22,231,960
1944	41	2,911	4,310,348	316,930	12,930,750	21,303,718
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
Per cent change 1946 from 1945	..	+ 16.6	+ 22.8	+ 25.5	+ 15.6	+ 12.5

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.

This report was prepared by J. J. Parchelo, Statistician, Metal and Chemical Products.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1945 and 1946

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
<u>1945</u>						
Quebec	12	331	651,278	49,228	3,365,003	4,333,833
Ontario	23	2,484	3,710,638	261,352	9,238,446	17,336,030
Manitoba	2)	114	198,665	32,505	1,115,006	1,552,266
British Columbia.	4)					
CANADA	41	2,929	4,560,581	343,085	13,718,455	23,222,129
<u>1946</u>						
Quebec	17	640	1,216,221	100,834	4,575,379	6,409,649
Ontario	25	2,660	4,176,129	305,925	10,212,600	18,261,136
Manitoba	2)	114	207,774	23,801	1,063,120	1,458,122
British Columbia.	3)					
CANADA	47	3,414	5,600,124	430,560	15,851,099	26,128,907

Table 3 - EMPLOYERS, SALARIES AND WAGES, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees				Total	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female		\$	\$	\$
<u>1945</u>								
Quebec	53	18	251	9	331	202,439	448,839	651,278
Ontario	210	157	1,227	890	2,484	839,941	2,870,697	3,710,638
Manitoba	11)	19	82	2	114	57,785	140,880	198,665
British Columbia.								
CANADA	274	194	1,560	901	2,929	1,100,165	3,460,416	4,560,581
<u>1946</u>								
Quebec	120	32	476	12	640	314,705	901,516	1,216,221
Ontario	255	161	1,489	755	2,660	977,150	3,198,979	4,176,129
Manitoba	14)	15	80	5	114	69,988	137,786	207,774
British Columbia.								
CANADA	389	208	2,045	772	3,414	1,361,843	4,238,281	5,600,124

Table 4 - WAGE-EARNERS, BY MONTHS, 1945 and 1946 (On the last work-day of each month)

Month	1945			1946		
	Male	Female	Total	Male	Female	Total
January	1,631	1,198	2,829	1,823	775	2,598
February	1,674	1,273	2,947	1,886	775	2,661
March	1,576	1,168	2,744	1,969	771	2,740
April	1,551	1,249	2,800	1,969	772	2,741
May	1,499	911	2,410	1,999	758	2,757
June	1,505	762	2,267	2,063	807	2,870
July	1,486	738	2,224	2,051	793	2,844
August	1,486	699	2,185	2,072	770	2,842
September	1,543	696	2,239	2,120	792	2,912
October	1,561	700	2,261	2,221	772	2,993
November	1,600	716	2,316	2,213	798	3,011
December	1,623	703	2,326	2,174	687	2,861
AVERAGE	1,560	901	2,461	2,045	772	2,817

Table 5 - FUEL AND ELECTRICITY USED, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal--Canadian ..	ton	269	3,012	247	2,598
Imported ..	ton	3,505	35,208	3,501	35,511
Anthracite coal	ton	596	5,680	1,033	10,177
Coke	ton	1,082	13,736	1,406	17,710
Gasoline	Imp.gal.	19,746	6,824	28,946	9,336
Kerosene	Imp.gal.	10,641	1,735	11,760	2,084
Fuel oil	Imp.gal.	1,364,614	112,183	1,741,685	144,394
Wood	cord	17	192	16	192
Gas--Manufactured	M cu.ft.	48,114	38,428	52,348	41,299
Natural	M cu.ft.	28,691	30,251	30,898	32,433
Other fuel .....	...	...	144	...	10,874
Electricity purchased	K.W.H.	8,423,783	95,692	14,508,948	123,952
TOTAL .....	...	...	343,085	...	430,560

Table 6 - POWER EQUIPMENT, 1945 and 1946

	1945		1946	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Gasoline, gas and oil engines, other than Diesel	1	25	4	200
Diesel engines - In use .....	...	...	...	...
In reserve or idle ...	1	7	...	...
Electric motors operated on purchased power - In use	1,795	8,405	1,961	9,653
In reserve or idle	129	439	185	1,221
TOTAL	1,926	8,876	2,150	11,074
Stationary power boilers -				
In use	6	155	6	155
In reserve or idle .....	...	...	...	...
Motor-generator sets	11	177	15	419 k.v.a.

Table 7 - MATERIALS USED, 1945 and 1946

Material	1945		1946	
	Quantity	Cost at works (\$)	Quantity	Cost at works (\$)
Metals (Other than Scrap)-				
Aluminum--Ingots--Primary or virgin	lb. 629,342	\$ 110,693	lb. 5,102,560	\$ 684,971
Secondary (from scrap)	lb. 129,095	21,273	lb. 75,180	\$ 7,792
Other forms	lb. 1,261,480	420,576	lb. 1,875,640	\$ 467,706
Antimony	lb. 1,228,358	200,883	lb. 1,485,292	\$ 260,639
Arsenic	lb. 60,110	4,698	lb. 27,501	\$ 1,978
Bismuth	lb. 33,930	41,740	lb. 45,353	\$ 56,731
Brass, all forms	lb. 4,167,165	829,854	lb. 58,771	\$ 7,480
Bronze, all forms	lb. ...	...	lb. 37,623	\$ 4,600
Cadmium	lb. 153,369	162,696	lb. 171,858	\$ 181,934
Copper ingots and slabs-				
Primary or virgin	lb. 2,381,630	279,399	lb. 2,046,923	\$ 259,255
Secondary (from scrap)	lb. 330	40	lb. 220	\$ 26
Die casting alloy	lb. 1,864,685	158,355	lb. 1,152,860	\$ 92,692
Lead, pig-Pure--Primary or virgin	lb. 57,289,977	2,897,412	lb. 59,461,660	\$ 3,577,849
Secondary (from scrap)	lb. 330,497	37,183	lb. 555,101	\$ 25,473
Antimonial--Primary	lb. 6,659,365	438,951	lb. 4,438,462	\$ 285,499
Secondary (from scrap)	lb. 2,023,640	110,970	lb. 797,160	\$ 46,402

Table 7 - MATERIALS USED, 1945 and 1946 (Concluded)

Material	1945		1946	
	Quantity	Cost at works (\$)	Quantity	Cost at works (\$)
<u>Metals (Other than Scrap)-</u>				
Magnesium .....lb.	37,740	10,692	142,445	36,363
Manganese metal .....lb.	17,069	7,235	4,742	1,656
Nickel .....lb.	396,380	110,735	662,385	198,689
Nickel-silver, all forms .....lb.	447,902	128,860	498,228	170,900
Silicon metal .....lb.	119,605	16,507	97,927	13,485
Silver, fine .....Troy oz.	266,349	113,606	40,392	31,554
Silver-lead alloy .....lb.	191,891	38,378	...	...
Tellurium .....lb.	308	464	1,372	2,046
Tin, pig--Primary or virgin .....lb.	1,794,713	1,129,907	3,657,813	2,261,905
Secondary (from scrap) .....lb.	963,955	604,788	42,571	20,786
Tinplate .....lb.	7,932	413	...	...
Zinc slabs, bars and ingots -				
Primary or virgin .....lb.	10,812,263	628,191	19,202,636	1,108,507
Secondary (from scrap) .....lb.	319,921	16,007	127,024	6,351
Other metals, except scrap but including alloys .....lb.	547,406	135,613	2,004,454	267,248
<u>Scrap metals of all kinds-</u>				
Aluminum .....lb.	7,377,385	401,571	11,616,813	700,603
Babbitt .....lb.	2,237,041	284,866	2,075,512	156,535
Brass .....lb.	6,387,382	450,586	3,670,301	262,752
Bronze .....lb.	3,602,617	232,332	3,856,775	314,389
Copper .....lb.	6,496,982	679,256	6,152,260	635,057
Lead -- Battery plates and lugs .....lb.	20,352,116	528,058	28,213,017	736,592
Dross .....lb.	1,008,500	23,188	1,127,802	26,754
Other .....lb.	8,982,164	370,966	10,583,147	485,709
Magnesium .....lb.	...	...	5,301	387
Solder .....lb.	890,107	79,712	662,517	83,622
Tin .....lb.	45,119	25,701	124,581	47,827
Tin foil .....lb.	...	...	183	82
Type metal .....lb.	2,507,347	134,718	3,097,999	177,362
Zinc .....lb.	915,695	31,910	662,843	25,928
Zinc dross .....lb.	3,404,194	99,931	3,223,079	94,516
Other scrap, including scrap unspecified by kind .....lb.	...	222,899	...	181,835
Shipping containers .....	...	63,195	...	84,796
All other materials .....	...	1,433,447	...	1,775,831
TOTAL.....	...	13,718,455	...	15,851,099

* Includes freight, duty, taxes, etc.

Table 8 - PRODUCTS MADE, 1945 and 1946

Product	1945		1946	
	Quantity	Selling value	Quantity	Selling value
	lb.	\$	lb.	\$
<u>Refined Metals (reclaimed or remelted)-</u>				
Aluminum	6,316,378	994,716	10,115,314	1,192,717
Lead (antimonial)	24,487,714	1,507,525	27,076,665	1,725,264
Lead (common)	5,730,387	319,089	11,078,860	635,151
Tin	254,367	154,485	193,824	119,688
Zinc	2,731,354	136,822	2,958,865	167,871

White Metal

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Table 8 - PRODUCTS MADE, 1945 and 1946 (Concluded)

Product	1945		1946	
	Quantity lb.	Selling value \$	Quantity lb.	Selling value \$
Alloys -				
Babbitt	4,281,389	919,249	4,817,620	1,304,689
Brass	7,329,539	911,671	8,008,097	1,030,276
Bronze	10,670,093	1,511,521	6,614,462	955,163
Copper alloys, not elsewhere specified	630,721	106,737	554,642	99,010
Lead alloys, not elsewhere specified	10,541,955	385,697	10,988,156	685,856
Solders	7,135,668	1,808,764	7,409,818	2,085,770
Tin alloys, not elsewhere specified	1,980,296	123,697	...	...
Type and type metal	6,563,071	686,094	6,565,831	727,537
Die casting alloy	5,279,635	456,225	7,617,265	622,324
Zinc alloys, not elsewhere specified	455,408	48,943	702,222	60,800
Other non-ferrous alloys .....	...	88,716	110,410	50,478
Castings -				
Die castings -				
Aluminum-base alloy	431,913	223,572	1,375,372	356,117
Zinc-base alloy	4,756,721	1,698,058	6,618,152	2,002,680
Other metal base .....	...	19,128	...	41,458
Other castings -				
Brass and bronze	9,976,570	2,180,319	409,265	131,675
Lead	943,946	119,837	594,969	61,089
Other .....	...	109,184	...	534,012
Lead Products -				
Pipe	6,672,362	544,918	10,051,620	899,950
Sheets	4,856,208	409,884	6,674,862	580,369
Traps and fittings	1,272,093	233,783	1,695,524	306,198
Miscellaneous, including bullet wire, shot, etc.	5,490,915	524,250	4,697,089	529,242
Scrap and dross	531,488	39,212	496,267	30,504
All other products (■) .....	...	6,960,033	...	9,193,041
TOTAL .....	...	23,222,129	...	26,128,907

(■) Includes commodities which were made by only one or two firms in this industry, such as metal foil, collapsible tubes, zipper fasteners, etc.

Table 9 - PRODUCTION OF BABBITT, SOLDERS, TYPE AND TYPE METAL, 1936-1946 (From all industries)

Year	Babbitt Metal		Solders of All Kinds		Type and Type Metal	
	Quantity lb.	Selling value at works \$	Quantity lb.	Selling value at works \$	Quantity lb.	Selling value at works \$
1936	2,668,791	477,917	4,427,509	1,077,573	3,906,174	377,673
1937	2,921,555	648,451	5,805,921	1,622,387	4,166,091	407,819
1938	2,230,907	456,104	5,064,436	1,208,704	3,635,344	355,636
1939	2,629,540	533,131	5,075,750	1,341,644	4,546,996	437,740
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

Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1945 and 1946

	1945		1946	
	Quantity	Value	Quantity	Value
<u>Lead and Its Products -</u>				
Lead in pigs and blocks -				
United Kingdom	lb.	2,000	280	...
United States	lb.	15,117	3,045	12,580
Total Imports	lb.	17,117	3,325	12,580
Lead, old and scrap -				
United Kingdom	lb.	36,871	1,045	31,390
Barbados	lb.	...	...	2,446
Newfoundland	lb.	...	...	11,948
United States	lb.	...	...	21,051
Total Imports	lb.	36,871	1,045	66,835
Lead in bars and sheets -				
United States	lb.	29,586	3,927	16,057
Total Imports	lb.	29,586	3,927	16,057
Lead capsules for bottles -				
France .....	...	...	...	...
Portugal .....	...	...	...	346
United States .....	...	...	126	...
Total Imports .....	...	...	126	457
Shot and bullets, lead -				
United States	lb.	1,393	298	4,225
Total Imports	lb.	1,393	298	4,225
Manufactures of lead, n.o.p. -				
United Kingdom .....	...	...	663	...
United States .....	...	...	325,439	...
Total Imports .....	...	...	326,102	138,592
<u>Tin and Its Products -</u>				
Tin in blocks, pigs or bars -				
United Kingdom	cwt.	67,294	4,714,710	56,007
Straits Settlements	cwt.	...	...	23,968
United States	cwt.	4,656	268,524	4,045
Total Imports	cwt.	71,950	4,983,234	84,020
Tinfoil -				
United Kingdom	lb.	...	...	84
United States	lb.	136,006	17,315	5,834
Total Imports	lb.	136,006	17,315	5,918
Collapsible tubes -				
United Kingdom .....	...	...	146	...
United States .....	...	...	101,075	...
Mexico .....	...	...	20,377	...
Total Imports .....	...	...	121,598	128,204
<u>Zinc and Its Products -</u>				
Zinc in blocks, pigs, bars and rods, and zinc plates, n.o.p.				
United States	cwt.	1,954	30,921	300
Total Imports	cwt.	1,954	30,921	300
Zinc strip and sheets; and zinc plates for marine boilers -				
United Kingdom	cwt.	...	...	20
United States	cwt.	37,494	488,983	42,986
Total Imports	cwt.	37,494	488,983	43,006

Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1945 and 1946 (Continued)

		1945	1946	
	Quantity	Value	Quantity	Value
Zinc and Its Products - (Con.)				
Zinc dust -				
United States	cwt.	458	3,872	350
Total Imports	cwt.	458	3,872	350
Zinc slugs for discs, for the manufacture of seamless cups or shells for electric dry batteries -				
United States .....	...	...	...	146,272
Total Imports .....	...	...	...	146,272
Zinc, manufactures of, n.o.p.-				
United Kingdom .....	...	...	191	1,934
Italy .....	...	...	...	183
Switzerland .....	...	...	...	1,640
United States .....	...	466,651	...	1,039,455
Total Imports .....	...	466,842	...	1,043,212
Alloys, n.o.p. -				
Babbitt metal in blocks, bars, plates and sheets -				
United Kingdom	cwt.	...	202	12,065
United States	cwt.	302	6,492	388
Total Imports	cwt.	302	6,492	590
Britannia metal, manufactures of, not plated -				
United Kingdom .....	...	220	...	9,202
United States .....	...	6,431	...	12,809
Total Imports .....	...	6,651	...	22,011
Chromium metal and tungsten metal, in lumps, powder, ingots, blocks or bars, and scrap of alloy metal containing chromium and tungsten, for alloying purposes -				
United Kingdom	lb.	120,960	135,284	11,200
United States	lb.	67,562	113,162	5,459
Total Imports	lb.	188,522	248,446	16,659
Metal alloy slugs, cast, with diamonds or diamond clips embedded therein, as for the mould, and metal alloy strip -				
United States .....	...	92,345	...	115,941
Total Imports .....	...	92,345	...	115,941
Phosphor tin and phosphor bronze, in blocks, bars, plates, sheets and wire -				
United Kingdom	lb.	31,057	10,991	328,230
United States	lb.	688,112	315,357	1,127,128
Total Imports	lb.	719,169	326,348	1,455,358
Alloys of copper -				
United Kingdom .....	...	...	...	8,863
United States .....	...	118,869	...	183,504
Total Imports .....	...	118,869	...	192,367
Alloys of magnesium -				
United States .....	...	2,605	...	10,357
Total Imports .....	...	2,605	...	10,357

Table 10 - IMPORTS INTO CANADA OF LEAD, TIN AND ZINC AND THEIR PRODUCTS, 1945 and 1946 (Concluded)

		1945	1946		
		Quantity	Value	Quantity	Value
Type and Type Metal -					
Type metal, in blocks, bars, plates and sheets -					
United States	lb.	180	66	10,206	1,854
Total Imports	lb.	180	66	10,206	1,854
Type for printing, including chases, quoins and slugs of all kinds -					
United Kingdom .....	...	...	...	...	1,208
Switzerland .....	...	...	186	...	...
United States .....	...	...	89,251	...	115,492
Total Imports .....	...	...	89,437	...	116,700

DIRECTORY OF FIRMS IN THE WHITE METAL PRODUCTS INDUSTRY, 1946

Name of Firm	Location of Plant
Quebec -	
Acme Slide Fasteners Co.	45 St. James St. W., Montreal
Bel Art Metal Casting Reg'd.	3852 Ontario East, Montreal
Canada Metal Company Limited, The	6265 Notre Dame St. E., Montreal
Dominion Foils (Canada) Limited	466 Victoria Ave., Lachine
Dominion Foils (Canada) Limited	Cap de la Madeleine
Eagle Smelting & Refining Works Limited	1095 Wellington St., Montreal
Kay Metal Refining Works Reg'd.	301 Nazareth St., Montreal
Lead Smelters and Refiners Ltd.	11445 Rivest St., Montreal East
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
Ouellette, O. J. & Co.	270 Vitre 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
White Metal Casting & Plating Co.	2010 Cardinal, Montreal
Ontario -	
Barber Die Casting Co. Limited	Cor. Hillyard & Munroe Sts., Hamilton
Binkley, Theophile	145 Beverley St., Galt
Canada Foils Limited	7 Fraser Ave., Toronto
Canada Metal Co. Ltd., The	721 Eastern Ave., Toronto
Canadian Hanson & Van Winkle Co. Ltd.	9-25 Morrow Ave., Toronto
Dominion and Monarch Type Foundry	109 Ontario St., Toronto
Frankel Brothers, Limited	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
Last Minute Mfg. Co. Ltd.	Wellington St. N., Thorold,
Light Alloys Limited	Hall St., Renfrew
Lightning Fastener Company Limited	Niagara St., St. Catharines
Metals & Alloys Limited	Wicksteed Ave., Leaside, Toronto
Modern Containers Limited	95 Sterling Rd., 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
Schultz Die Casting Co. of Canada Limited	Wallaceburg
Scott Metal Co.	456 Queen St. E., Toronto
Spooner Coppering Company Limited	John St., Port Hope
Strath-Craft	London
Toronto Refiners & Smelters Ltd.	28 Bathurst St., Toronto
Webster Bros. Limited	1161 King St., London

DIRECTORY OF FIRMS IN THE WHITE METAL PRODUCTS INDUSTRY, 1946 (Con.)

Name of Firm	Location of Plant
<u>Manitoba</u> -	
Canada Metal Company Limited, The	301 Chambers St., Winnipeg
Union Metal Company Limited, The	654 McGee St., Winnipeg
<u>British Columbia</u> -	
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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