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DOMINION BUREAU OF STATISTICS - CANADA

Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.

Mining, Metallurgical and Chemical Branch

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RADIO STATISTICS FOR CANADA, 1928.

Production of complete radio sets, parts and batteries in Canada during 1928 reached a value of \$12,768,024 or 45 per cent above the total of \$8,789,171 reported for 1927, according to a preliminary statement issued by the Dominion Bureau of Statistics at Ottawa.

Data for this bulletin have been assembled from the annual returns to the industrial census; in 1928 an output of radio sets or parts was reported by 45 different firms of which 39 were in the electrical supplies industry, 5 in the musical instruments industry and 1 in the furniture industry. This survey, however, does not include the great number of small custom workers who assemble or build to order; only those classed as manufacturers have been included. Complete sets were made in 14 different plants and the output numbered 81,032 sets worth \$7,486,127 as compared with a corresponding total of 47,500 sets worth \$3,748,622 in 1927. Vacuum tubes were manufactured in 4 factories; the number made was 1,556,917 and the value was \$2,043,473. Batteries, storage and dry cell, said to be manufactured for radio purposes, were produced in 16 establishments and the value totalled \$2,456,065 as against \$2,572,993 for 1927. Battery eliminators were reported by 7 concerns and the output amounted to 3,219 worth \$77,541. Other lines of production included transmitters, transformers, loud speakers, panels, condensers and other miscellaneous parts.

As reported to the Bureau by Lynn W. Meekins, United States Trade Commissioner at Ottawa, the exports to Canada of radio sets and parts from the United States during the calendar year 1928 had a value of \$5,264,642 and included the following items: radio transmitting sets and parts, \$255,434; radio receiving sets, \$2,449,666; radio tubes, \$173,843; receiving set components, \$1,280,602; receiving set accessories, \$1,105,097.

Radio licenses are issued by the Department of Marine and Fisheries. During the fiscal year ended March 31, 1929, licenses were issued to 296,756 persons including 472 to the blind, as compared with 268,055 licenses issued in the preceding fiscal year. Ontario led all provinces with a total of 144,842 and Quebec was next with 49,812. Registrations in the other provinces in order were as follows: Saskatchewan, 27,386; British Columbia, 23,480; Manitoba, 20,496; Alberta, 14,973; Nova Scotia, 8,611; New Brunswick, 6,289; Prince Edward Island, 756, and the Northwest Territories, 111.

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Transmitting licenses were issued to 1,146 stations during the fiscal year; the following classes were included: private commercial broadcasting, amateur broadcasting, limited coast, public commercial, experimental, private commercial, training school, amateur experimental, aircraft, and ship.

PRODUCTION OF RADIO SETS AND PARTS IN CANADA, 1927 and 1928 (x)

	Selling value at works	
	1927	1928
	\$	\$
Condensers;.....	15,543	33,737
Panels and parts (switches, dials, binding posts, keys, sockets, etc.).....	41,377	37,660
Telephones (head sets, loud speakers, etc.).....	227,392	220,615
Transformers.....	14,504	10,149
Vacuum tubes.....	1,317,990	2,043,473
Complete radio receiving sets.....	3,748,622	7,486,127
Apparatus and parts not elsewhere specified, including complete transmitting sets.....	759,632	402,657
Battery eliminators.....	91,118	77,541
Radio batteries.....	2,572,993	2,456,065
TOTAL.....	8,789,171	12,768,024

In addition to the above, the furniture industry in Canada produced radio cabinets worth \$709,000 in 1928 and \$900,000 in 1927.

(x) All figures subject to revision.

RADIO TRANSMITTING LICENSES ISSUED DURING THE FISCAL YEAR ENDED MARCH 31, 1929.

Prepared in the Radio Branch, Department of Marine and Fisheries.

	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	N.W.T. and Yukon	TOTAL
Private commercial broadcasting.....	3	3	3	9	24	4	11	12	10	-	79
Amateur broadcasting.....	-	2	-	-	6	-	3	-	1	-	12
Limited coast.....	-	3	-	-	-	-	-	-	-	-	3
Public commercial....	-	-	-	3	-	-	-	1	-	-	4
Experimental.....	-	2	3	8	27	1	-	1	4	-	46
Private commercial..	-	2	-	18	30	10	5	3	28	2	98
Training school.....	-	1	-	1	1	1	-	-	1	-	5
Amateur experimental	9	34	15	64	207	15	90	56	87	7	584
TOTAL.....	12	47	21	103	295	31	109	73	131	9	831
Aircraft (Dominion).											2
Ships (Dominion)....											313
Total Transmitting (all classes) Dominion.....											1,146

Note: A complete list of the names and locations of the stations enumerated above, may be had on application to the Director, Radio Branch, Department of Marine and Fisheries, Ottawa.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
RECEIVED  
JAN 10 1914

TO THE EDITOR OF THE JOURNAL OF CHEMICAL PHYSICS  
I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,  
Yours truly,  
J. H. VAN VLECK

Enclosed for you are two copies of the paper on the subject of the "Thermodynamic Properties of Gases" which I have just published in the Journal of Chemical Physics. I am sure that you will find it of interest.

I am, Sir, very respectfully,  
Yours truly,  
J. H. VAN VLECK



PRODUCERS OF RADIO SETS, PARTS AND BATTERIES IN CANADA, 1928.

(a) Radio Sets and Parts

Electrical Supplies Industry

Bakelite Corporation of Canada, Ltd.	163 Dufferin St., Toronto, Ontario.
Baldwin International Radio of Canada	445 King St. W., Toronto, Ontario.
Benjamin Electric Mfg. Co. of Canada, Ltd.(4)	11-17 Charlotte St., Toronto, Ontario.
Benjamin Hughes Electric Co.(4)	2311 Jeanne Mance St., Montreal, P.Q.
Canadian Westinghouse Co. Ltd.(1) (2) (4)	Sanford Ave., N., Hamilton, Ontario.
Canadian General Electric Co. Ltd.	212 King St. W., Toronto, Ontario.
Canadian Brandes, Ltd.(1)	243 Church St., Toronto, Ontario.
Canadian Marconi Co. (1) (3)	173 William St., Montreal, P.Q.
De Forest Radio Corp. Ltd. (1)	245 Carlaw Ave., Toronto, Ontario.
Durable Electric Appliance Co. Ltd. (4)	81 Jarvis St., Toronto, Ontario.
Fada Radio Ltd. (1) (4)	821 Queen St. E., Toronto, Ontario.
The Mohawk Radio Ltd. (1)	14 Temperance St., Toronto, Ontario.
Northern Electric Co. Ltd. (2)	121 Shearer St., Montreal, P.Q.
The Packard Electric Co. Ltd. (4)	13 Race St., St. Catharines, Ontario.
Racon Electric Co. Inc.	105 Sherbourne St., Toronto, Ontario.
Radio Valve Co. of Canada, Ltd. (2)	Cannon and Ashley Sts., Hamilton, Ontario.
Rogers Radio, Ltd. (2)	56 Church St., Toronto, Ontario.
Sangamo Electric Co. of Canada, Ltd.	183-185 George St., Toronto, Ontario.
Smith & Stone Ltd.	Georgetown, Ontario.
Splitdorf Electrical Co. Ltd. (1)	493 Yonge St., Toronto, Ontario.
Standard Radio Mfg. Co. (1)	90 Chestnut St., Toronto, Ontario.
Stromberg Carlson Telephone Mfg. Co. of Canada, Ltd. (1)	211-219 Geary Ave., Toronto, Ontario.
Workrite Radio Ltd. (1)	51 Bruce St., Brantford, Ontario.

Musical Instruments Industry

Berliner-Gramophone (1)	925 Lenoir St., Montreal, P.Q.
Brunswick-Balke-Cellender Co. of Canada, Ltd.(1)	Kitchener, Ontario.
Pollock-Walker, Ltd.	480 Victoria St., Kitchener, Ontario.
Phonola Co. of Canada, Ltd.	Elmira, Ontario.
Williams Piano Co. Ltd. (1)	Oshawa, Ontario.

Furniture Industry

Geo. McLagan Furniture Co. (1)	Stratford, Ontario.
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(b) Radio Batteries

(For complete list of battery manufacturers see bulletin on "Batteries")

Baird, Wm. and Son	568 Dundas St., Woodstock, Ontario.
Blais Bros. Battery Co. Ltd.	10161-100 <sup>th</sup> St., Edmonton, Alberta.
Burgess Battery Co.	399 Buttery St., Niagara Falls, Ontario.
Burgess Dry Cells Ltd.	14 Bury St., Winnipeg, Manitoba.
Canada Batteries Ltd.	Rear 360 Dufferin St., Toronto, Ontario.
Canadian National Carbon Co. Ltd.	Hillcrest Park, Toronto, Ontario.
Coyle Batteries Ltd.	1445 Venables St., Vancouver, B.C.
Dominion Battery Co. Ltd.	20 Trinity St., Toronto, Ontario.
Eagle Star Battery Co. Ltd.	382 Queen St., Ottawa, Ontario.
Exide Batteries of Canada, Ltd.	133-157 Dufferin St., Toronto, Ontario.
Globelite Battery Co. Ltd.	147 Pacific Ave. E., Winnipeg, Manitoba.
Hart Battery Co. Ltd.	St. Johns, P.Q.
La Salle Lead Products, Ltd.	630 Wyandotte St. E., Windsor, Ontario.
Monarch Battery Co.	Montreal St., Kingston, Ontario.
Frest-O-Light Company of Canada, Ltd. )	Hillcrest Park, Toronto, Ontario.
U.S. Light and Heat, Ltd. )	
Willard Storage Battery Co. of Canada, Ltd.(4)	269 Campbell Ave., Toronto, Ontario.

- (1) Complete sets.
- (2) Vacuum tubes
- (3) Transmitting sets
- (4) Battery eliminators.



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