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CANADA
DOMINION BUREAU OF STATISTICS
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REPORT

on the

MUSICAL INSTRUMENT INDUSTRY

in

CANADA
1922



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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA, CANADA

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THE MUSICAL INSTRUMENT INDUSTRY IN CANADA

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Ottawa, October, 1922:- A report is presented herewith on the Musical Instrument Industry in Canada for the calendar year 1922. This report includes firms engaged in the manufacture of musical instrument materials, phonographs and gramophones. A total of 68 establishments were reported, located by provinces as follows:- Ontario 46; Quebec 17; Manitoba 2; Alberta 1; British Columbia 1; Nova Scotia 1. In order not to disclose the operations of individual establishments, statistics for Manitoba, Alberta and British Columbia and Nova Scotia have been combined and are shown throughout this report under the heading of "Other Provinces."

PRINCIPAL STATISTICS

A summary of the principal statistics relating to the Industry is shown for Canada and the provinces in Table I for the calendar year 1922.

Table I - Principal Statistics by Provinces - 1922

	Canada	Ontario	Quebec	Other (x) Provinces
Establishments	No. 68	46	17	5
Capital Investment	\$ 13,776,790	9,785,527	3,660,098	331,165
Employees on salaries -				
Male No. 251	152	92	7	
Female No. 84	54	28	2	
Salaries \$ 668,493	421,985	228,184	18,324	
Employees on wages -				
av. number - Male No. 2,444	1,986	427	31	
Female No. 181	118	63	-	
Wages \$ 2,750,327	2,169,041	551,505	29,781	
Outside piece workers -				
Male No. 11	1	2	8	
Amount paid \$ 2,554	118	544	1,892	
Cost of Fuel	\$ 178,699	135,579	40,020	3,100
Power Employed - Units	No. 691	577	96	18
Capacity H.P. 7,589	6,438	1,045	106	
Miscellaneous Expenses	\$ 1,168,383	767,318	376,241	24,824
Cost of Materials	\$ 4,238,370	3,315,286	871,999	51,085
Value of Products	\$ 9,919,371	7,307,674	2,496,615	115,082
Value added by manufacturer \$ 5,681,001	3,992,388	1,624,616	63,997	

(x) Includes:- Alberta 1, British Columbia 1, Manitoba 2, Nova Scotia 1.

THE MUSICAL INSTRUMENT INDUSTRY IN CANADA, 1922

PRODUCTION

The quantity and value of the principal products of the industry will be found in Table II, by provinces for the calendar year 1922. Pianos and player pianos together take first place in value in point of production having a total of \$4,351,956 which is equal to 43.8 per cent of the total value of production. Gramophones and phonographs take second place with a total of \$1,555,736 or 15.6 per cent of the entire output. Piano actions, keys, hammers and other parts and materials account for \$1,160,155. There was a decrease in the value of production over the previous year of \$529,699.

Table II - Production by provinces, 1922.

Products	CANADA		ONTARIO		Quebec		Other Provinces	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pianos - upright.....No.	14,023	3,330,802	10,966	2,755,317	2,618	484,914	439	90,571
Pianos - upright player.....No.	2,062	795,367	1,790	706,235	255	83,132	17	6,500
Pianos - grand.....No.	343	195,709	312	190,222	-	15,487	-	-
Pianos - grand player.....No.	12	14,254	12	14,254	-	-	-	-
Pianos - electric.....No.	21	12,624	20	11,724	1	900	-	-
Pianos, player attachments.....No.	10	100	10	100	-	-	-	-
Pianos, all other.....No.	21	2,600	16	1,600	5	1,000	-	-
Organs - pipe.....No.	84	549,554	27	59,498	57	490,056	-	-
Organs - reed.....No.	378	46,874	378	46,874	-	-	-	-
Gramophones and phonographs.....No.	39,357	1,555,786	37,491	1,448,172	1,687	98,775	179	8,839
Brass wind instruments.....No.	38	600	38	600	-	-	-	-
Stringed instruments (violins, etc.)	-	13,123	-	8,183	-	4,940	-	-
Gramophone & phonograph records.....No.	3,816,535	1,424,400	645,687	230,333	3,170,648	1,193,929	200	138
Timpani and drums.....No.	50	1,500	-	-	-	-	50	1,500
Piano actions.....Sets	20,101	544,588	20,101	544,588	-	-	-	-
Piano hammers.....Sets	18,779	91,322	18,779	91,382	-	-	-	-
Piano and organ keys.....Sets	17,167	331,313	17,167	331,313	-	-	-	-
Piano players, actions, etc.....No.	1,681	192,872	1,681	192,872	-	-	-	-
All other parts and accessories.....	-	302,858	-	302,633	-	-	-	225
Stools, benches, cabinets, etc.....	-	160,229	-	155,599	-	1,680	-	2,950
All other products.....	-	282,842	-	192,400	-	90,202	-	240
Amount received for repairs.....	-	69,494	-	33,775	-	31,600	-	4,119
 TOTAL.....	-	9,919,371	-	7,307,674	-	2,496,615	-	115,082

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CAPITAL INVESTMENT

The capital invested in the industry is given in Table III by provinces for the calendar year 1922. Fixed capital which comprises the value placed on land, buildings, fixtures, machinery and tools amounted to \$5,221,089. Working capital which consists of materials on hand, stocks in process, cash trading and operating accounts, etc., was reported at \$8,555,701 - together making a total capital investment of \$13,776,790, which is a decrease of \$38,585 over the total for 1921. By provinces Ontario contributed \$9,785,527 or 71.0 per cent whilst Quebec comes second with \$3,660,098 or 26.5 per cent, the remaining \$31,165 being distributed amongst the other four provinces.

Table III. Capital Employed by Provinces, 1922.

Provinces	Fixed Capital			Working Capital			Total Capital
	Land, buildings Fixtures	Machinery and Tools	Total	Materials on hand	Cash, trading and stocks in process	Total	
	\$	\$	\$	\$	\$	\$	
CANADA	3,427,715	1,793,374	5,221,089	4,968,693	3,587,003	8,555,701	13,776,790
Ontario	2,153,213	1,230,685	3,483,898	3,820,065	2,471,504	6,351,629	9,785,527
Quebec	1,222,809	439,512	1,712,317	996,891	350,890	1,947,781	3,660,098
Other provinces	51,597	23,177	74,874	91,742	164,549	256,291	331,165

EMPLOYEES, SALARIES AND WAGES

The number of persons employed in the industry is given by (a) classes of employment, (b) sex and (c) salary and wage payments in Table IV for the calendar year 1922. The total number of persons of both sexes employed was 2,971 and their total salaries and wages amounted to \$3,421,374 being an increase over 1921 of 237 persons and \$221,706 in remuneration. Ontario takes precedence with 152 male and 54 female office employees receiving \$421,985 in salaries, and 1,986 men and 118 women factory workers whose combined earnings amount to \$2,169,041. In Quebec the 92 males and 28 females comprising the office staff received \$228,184 in salaries whilst the factory pay rolls showed 427 men and 63 women employed who received \$551,505 in wages.

Table IV. - Employees, Salaries and Wages 1922.

Classes of Employment	Male No.	Female No.	Salaries and Wages \$
Salaried Officers of Corporations	44	1	172,836
General Superintendents and Managers	63	-	219,000
Technical Experts, accountants, etc.	20	3	46,209
Clerks, stenographers, salesmen etc.	124	80	221,448
Employees on wages - average number	2,444	181	2,750,327
Outside piece workers	11	-	2,554
TOTAL	2,706	265	3,421,374

THE MUSICAL INSTRUMENT INDUSTRY IN CANADA, 1922

OTHER EMPLOYMENT STATISTICS

The number of wage earners of each sex employed in the industry is given by months in Table V, for the calendar year 1922. The maximum number of males was reached in December with 2,918 whilst the minimum was recorded in August with 2,046. The largest number of female factory workers reported was also in December with 240 whilst the lowest was in August with 150.

Table V - Wage earners, by months, 1922.

Month	Male No.	Female No.	Month	Male No.	Female No.
January...	2,549	188	July.....	2,119	151
February...	2,524	182	August.....	2,046	150
March.....	2,404	181	September.....	2,349	174
April.....	2,480	164	October.....	2,528	198
May.....	2,357	160	November.....	2,745	220
June.....	2,310	156	December.....	2,918	240
Total				29,329	2,164
Average number for the year				2,444	181

The number of days the factories were in operation, together with the number of hours per day and per week normally worked by wage earners are shown in Table VI for the calendar year 1922. For statistical purposes a year is reckoned at 304 working days.

Table VI - Days in operation and Hours worked by Wage earners, 1922

Number of establishments.....	67 (see foot note)	
	Total	Average
Days in operation on full time.....	16,087	240.1
Days in operation on part time.....	2,364	35.2
Days idle.....	1,917	23.7
Number of hours worked per day or shift	581	8.6
Number of hours worked per week.....	3,314	49.4

Note One firm employed only outside piece workers so that no data relating to the number of days in operation or the number of hours worked are available.

THE MUSICAL INSTRUMENT INDUSTRY IN CANADA, 1922

MATERIALS USED

The quantity and value of the principal materials used in the industry will be found in Table VII by provinces for the calendar year 1922. There was a decline in the total value of materials used, over the year 1921, amounting to \$487,401. Of the total expenditure for raw or partly manufactured materials amounting to \$4,238,370, Ontario contributed \$3,315,286 or 78.2 per cent and Quebec accounted for \$871,999 or 20.5 per cent the balance being distributed over the remaining four provinces.

Table VII - Materials used, by provinces - 1922

Principal Materials	CANADA		Ontario		Quebec		Other Provinces	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Value
Pian		\$		\$		\$		\$
Lumber for pianos, organs, etc. M.Ft.BM.	7,535	546,139	6,057	453,076	1,382	31,638	96	6,425
Wood for string and wind instruments...	-	320	--	20	-	300	-	-
Veneer.....	9	177,348	-	151,384	-	23,314	-	2,150
Piano and organ cases.....No.	4,914	90,692	3,036	60,562	1,553	29,230	325	900
Gramophone cases and cabinets....No.	1,749	82,655	1,398	72,925	298	9,100	53	630
Cases for other musical ins- truments.....No.	307	2,030	-	-	307	2,030	-	-
Brass.....Lb.	4,729	4,218	2,569	3,101	1,960	1,017	200	100
Silver.....Lb.	49	886	12	224	37	662	-	-
Other metal.....-	-	79,822	-	59,380	-	20,442	-	-
Wire.....Lb.	181,449	44,357	170,171	39,957	10,528	3,875	750	525
Strings.....-	-	59,178	-	44,696	-	8,128	-	1,352
Ivory or bone....-	-	131,140	-	127,630	-	3,510	-	-
Keyboards.....Sets	2,765	39,962	1,552	30,805	1,213	9,157	-	-
Keys.....Sets	15,271	387,918	12,060	309,510	2,755	69,139	456	9,239
Actions.....Sets	16,633	512,635	13,330	437,632	2,847	63,729	456	11,324
Hammers.....Sets	16,319	32,048	13,007	66,196	2,856	13,800	456	2,052
Scounding boards.Sets	16,325	104,481	13,381	85,922	2,488	15,165	456	2,394
Pipes, wooden....No.	1,065	700	1,065	700	-	-	-	-
Pipes, metal....No.	2,520	3,100	2,520	3,100	-	-	-	-
Piping lead.....Lb.	28,595	4,238	500	30	28,095	4,158	-	-
Reeds.....-	-	4,247	-	4,247	-	-	-	-
Canvas.....Yds.	35	21	15	6	20	15	-	-
Leather.....Skins.	1,091	27,836	967	27,603	124	283	-	-
Sheepskin.....Skins.	2,220	5,093	203	459	2,017	4,634	-	-
Hardware.....-	-	381,700	-	356,386	-	22,189	-	3,125
Felt.....Yds.	31,250	81,954	29,662	77,798	1,468	3,739	120	417
Glue.....Lb.	334,198	71,694	276,921	37,392	43,077	11,775	9,200	2,027
Oils stains and varnishes.....-	-	121,940	-	104,853	-	14,973	-	2,114
Gramophone motors, tone arms, etc....-	-	152,911	-	136,951	-	15,960	-	-
Gramophone records materials.....-	-	89,751	-	32,939	-	56,812	-	-
Shellac.....-	-	221,071	-	-	-	221,071	-	-
Plates and player equipment.....-	-	86,483	-	81,043	-	-	-	5,440
Player actions...-	-	28,596	-	23,296	-	-	-	-
Player attach- ments.....-	-	3,520	-	3,520	-	-	-	-
All other materials	-	607,086	-	444,061	-	162,154	-	371
TOTAL.....	-	4,238,370	-	3,315,286	-	871,999	-	51,005

THE MUSICAL INSTRUMENT INDUSTRY IN CANADA, 1922.

FUEL STATISTICS

The quantity and cost value of the various kinds of fuel used in the industry is shown in Table VIII for the calendar year 1922. Bituminous coal takes first place in importance with 21,349 tons valued at \$160,890. Anthracite coal follows next in order with 479 tons at a valuation of \$5,158 whilst coke ranks third with 443 tons with a value of \$4,539; wood, other fuel, lignite coal, gasoline and gas follow in the order named.

Table VIII - Fuel Consumption - 1922.

Kinds of fuel	Unit of measure	Quantity	Cost Value \$
Bituminous coal.....	short ton	21,349	160,890
Anthracite coal.....	short ton	479	5,158
Lignite coal.....	short ton	192	1,651
Coke.....	short ton	443	4,539
Gasoline.....	gallon	3,113	1,038
Wood.....	cord	461	3,170
Gas.....	1000 c.ft.	217	201
Other fuel.....	- -	-	2,052
TOTAL.....	- -	-	178,699

POWER INSTALLATION

The various classes of power used in the industry will be found in Table IX by (a) the number of units in each class and (b) the indicated horse-power capacity according to manufacturers rating for the calendar year 1922. Electricity was the principal motive power used with 659 motors with 5,743 horse-power capacity, steam engines take second place with 24 units rated at 1,786 horse-power. Hydraulic turbines or water wheels follow in third position with 8 giving 60 horse-power.

Table IX - Power Installation - 1922.

Classes of power	Number of units	Horse-power capacity
Steam engines and turbines.....	24	1,786
Hydraulic turbines or water wheels.....	8	60
Electric motors operated by power generated at the factory.....	16	93
Electric motors operated by purchased power.....	643	5,650
TOTAL.....	691	7,589

MISCELLANEOUS EXPENSES

Miscellaneous expenses or overhead charges amounted to \$1,168,383. This amount includes rent, taxes of all kinds, travelling and advertising expenses, insurance, telephone service and repairs to buildings and machinery. Since 1921 manufacturers are no longer required to itemize their miscellaneous expenses.

THE MUSICAL INSTRUMENT INDUSTRY IN CANADA, 1922

IMPORTS AND EXPORTS

The quantity and value of the various musical instruments, materials parts and accessories imported into and exported from Canada during the calendar year 1922 will be found in Table X (a) and (b).

Table X (a) - Imports - 1922

Articles imported	United Kingdom		United States		Other Countries	
	Quantity No.	Value \$	Quantity No.	Value \$	Quantity No.	Value \$
Brass band instruments and bag pipes.....	-	17,625	-	138,480	-	26,038
Cabinet organs.....	-	-	89	10,707	-	-
Pipe organs.....	-	-	4	26,369	-	-
Parts of organs.....	-	28	-	15,036	-	-
Fianofortes.....	-	-	1,151	289,736	3	1,327
Pianos, parts of.....	-	65	-	168,195	-	12,768
Pianos and organ players mechanical.....	-	-	37	5,847	-	-
Pianos parts including keys, hammers, actions and dampers.....	-	16,135	-	85,861	-	10,651
Phonographs, gramophones & finished parts thereof.....	-	8,740	-	1,276,687	-	5,031
Phonographs and gramophone cylinders and records.....	-	8,468	-	109,374	-	4,583
Other musical instruments, n.o.p.....	-	18,770	-	146,662	-	114,623
TOTAL.....	-	69,831	1,281	2,272,954	3	174,821

Table X (b) - Exports - 1922

Articles exported	United Kingdom		United States		Other Countries	
	Quantity No.	Value \$	Quantity No.	Value \$	Quantity No.	Value \$
Organs.....	34	5,574	14	154,211	99	10,414
Pianos.....	34	17,236	87	35,132	131	40,346
All other musical instruments and parts, n.o.p.....	-	19,240	-	46,772	-	108,471
TOTAL.....	68	42,050	101	236,115	230	159,231

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