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REPORT

on the

BOATBUILDING INDUSTRY

in

CANADA

1921 and 1922

Published by Authority of the Hon. Thos. A. Low. M. P.,
Minister of Trade and Commerce.

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OTTAWA

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY - FOREST PRODUCTS STATISTICS
OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S., F.R.S.C.
Forest Products Statistics: R. G. Lewis, B. Sc.F.

THE BOATBUILDING INDUSTRY IN CANADA

1921 and 1922

Ottawa, June, 1924.- A report on the manufacture of small boats, canoes and pleasure craft has been completed by the Forest Products Branch of the Dominion Bureau of Statistics for 1921 and 1922.

The ship and boat building industry has been divided into two sections chiefly for the purpose of separating the building of large steel vessels and dry dock work from the building of smaller wooden vessels and pleasure craft. This report deals with the latter class insofar as the two can be separated.

There were 99 establishments engaged in the manufacture and repair of boats and canoes in 1922, as compared to 95 in 1921, with a capital investment of \$1,655,151 in 1922 and \$1,391,311 in 1921. These establishments employed 517 workers on salaries and wages amounting to \$572,478. The fuel used in the industry in 1922 cost \$11,363 and the miscellaneous expenses amounted to \$193,717 but the power employed amounted to only 650 horse-power as a great part of the work is done by hand. The raw materials in 1922 cost \$383,091 and the value of products and work done was \$1,299,972.

The building of small pleasure boats and canoes is most highly developed in Ontario, the distribution of establishments by provinces being as follows:- Ontario, 46; British Columbia, 17; Nova Scotia, 16; Quebec, 12; Alberta, 4; New Brunswick, 3 and Manitoba 1.

Tables 1 and 2 give a summary of the principal statistics of the industry and the distribution of its establishments by provinces for 1921 and 1922.

The chief raw material used was lumber of which 3,808,000 feet board measure valued at \$193,593 was purchased in 1922. Timber at \$8,146 and masts, spars, knees and blocks at \$1,422 are the other forms in which wood is used in this industry.

The next most important materials are:- paint, oil and varnish; bolts, nuts, rivets, spikes and nails; steel, iron, brass and other metals; caulking materials, sails, sailcloth and cordage. One of the largest items under this heading is machinery, boilers and electrical apparatus which is purchased and installed in the boats manufactured. The total value of all materials purchased was \$383,091 in 1922 as compared to \$370,570 in 1921.

The products of this industry consist primarily of boats of less than 5 gross tons and are made up chiefly of sailboats, row boats and canoes numbering 6,572 and valued at \$444,640. Motorboats numbering 749 valued at \$337,663 form the next most important group, followed by life boats, fishermen's dories, scows and canal boats, whale boats and small wooden steamers. Repair work done during 1922 amounted to \$266,277 and other products including oars, paddles, etc. amounted to \$90,162.

While the firms included in this industry are chiefly engaged in small boat manufacture, some of them turned out larger vessels during the year. These consisted of 31 motor vessels, 3 steamers and two sailing vessels of 5 gross tons or over.

The total value of all products and work done in 1922 was \$1,299,992 and in 1921, \$1,374,245.

Some manufacturers of large steel and wooden vessels turn out small craft as a side line to their regular business. In 1922 these larger firms manufactured 45 fishermen's dories, 18 sail and row boats, 13 scows and canal boats and 6 motor boats of less than 5 gross tons with a total value of \$67,765.

Tables 3 and 4 give the details of materials and products of this industry in 1921 and 1922, and Tables 5, 6, 7 and 8 deal with capital invested, employment, fuel used and power consumed.

THE BOATBUILDING INDUSTRY, 1921 and 1922

Table 1.- Principal Statistics, 1921-1922

Items	1921	1922
Establishments No.	95	99
Capital invested \$	1,391,311	1,655,151
Employees on salaries No.	57	58
Salaries paid \$	104,847	102,604
Employees on wages No.	464	459
Wages paid \$	542,013	469,874
Fuel used \$	11,824	11,363
Miscellaneous expenses \$	119,051	193,717
Power employed H.P.	-	650
Cost of materials \$	370,570	383,091
Value of products \$	1,374,245	1,299,972

Table 2.- Distribution of establishments by provinces, 1921-1922

Provinces	1921	1922
	No.	No.
CANADA	95	99
Ontario	44	46
British Columbia	18	17
Nova Scotia	13	16
Quebec	12	12
Alberta	3	4
New Brunswick	4	3
Manitoba	1	1

Table 3.- Materials Used, 1921-1922

Materials		Quantity		Value	
		1921	1922	1921	1922
TOTAL		-	-	370,570	383,091
Lumber	M.ft.b.m.	3,816	3,808	171,505	193,593
Timber	cu.ft.	-	37,211	7,184	8,146
Masts, spars, knees & blocks ..	\$	-	-	1,154	1,422
Iron castings, bars, etc.....	lbs.	-	75,947	2,666	5,368
Steel castings, bars & billets	"	-	16,695	798	1,117
Steel plates and shapes	"	-	10,620	371	1,939
Brass and bronze castings ...	"	-	26,985	3,948	5,098
Brass fittings and valves ...	"	-	3,267	3,912	1,047
Bolts, nuts, rivets, spikes, nails, etc.....	"	-	94,904	18,780	21,681
Boilers and engines	No.	-	158	43,170	32,932
Electrical apparatus	\$	-	-	525	2,063
Sailcloth and sails	sq.yd.	-	3,347	6,320	3,891
Cordage	lbs.	-	5,795	1,635	1,910
Caulking materials	\$	-	-	3,011	4,172
Paint, oil and varnish	\$	-	-	29,476	37,831
Other furnishings & fittings	\$	-	-	7,594	2,155
Upholstering	\$	-	-	3,851	4,764
All other materials	\$	-	-	64,670	33,937
Contract work	\$	-	-	-	19,125

THE BOATBUILDING INDUSTRY, 1921 and 1922.

Table 4.- Products Manufactured, 1921 and 1922

Products	Number		Value of products and work done during the year	
	1921	1922	1921	1922
TOTAL	-	-	\$ 1,374,245	\$ 1,299,972
Wooden vessels, 5 tons and over -				
Steam	1	3	3,000	4,635
Motor	55	31	47,200	47,251
Sail with auxiliary	3	1	8,600	4,274
Sail	8	1	11,500	350
Small boats, less than 5 tons -				
Steam	8	5	840	3,025
Gasoline	742	749	303,120	337,663
Dories	374	714	20,451	28,774
Sailboats, rowboats & canoes	4,973	6,572	414,244	444,640
Life boats	111	178	43,947	43,151
Whale boats	5	6	2,637	10,231
Scows, canal boats, etc.....	58	206	14,475	14,802
Boats under construction	-	12	9,900	4,737
Repairs and custom work	-	-	416,265	266,277
All other products	-	-	78,066	90,162

Table 5.- Capital Invested, 1921-1922

Items	1921	1922
	\$	\$
TOTAL	1,391,311	1,655,151
Land, buildings and fixtures	463,316	558,044
Machinery and tools	206,152	242,343
Materials, stocks, etc. on hand	464,464	513,626
Cash, accounts, etc.....	257,379	341,138

Table 6.- Employment, 1921 and 1922

Classes of Employees	Total number of Employees		Males		Females		Total Salaries and Wages	
	1921	1922	1921	1922	1921	1922	1921	1922
	No.	No.	No.	No.	No.	No.	\$	\$
TOTAL	521	517	512	506	9	11	646,860	572,478
Salaries officers	11	16	11	16	-	-	18,300	34,540
Superintendents and managers	23	19	23	19	-	-	60,800	40,943
Technical staff	2	5	2	5	-	-	3,360	6,112
Clerical staff	21	18	12	7	9	11	22,387	21,009
Employees on wages	464	459	464	459	-	-	542,013	469,874

THE BOATBUILDING INDUSTRY, 1921 and 1922

Table 7.- Fuel Used, 1921 and 1922

Kinds of Fuel		Quantity		Value	
		1921	1922	1921	1922
				\$	\$
TOTAL	\$	-	-	11,824	11,363
Bituminous coal	tons	234	195	2,170	1,968
Anthracite coal	"	67	25	1,214	394
Lignite coal	"	-	16	-	147
Coke	"	2	6	23	84
Gasoline	gal.	5,510	9,292	2,080	3,248
Fuel oil	"	-	871	-	297
Wood	cords	878	842	5,033	5,063
Gas	M.c.f.	69	95	88	91
Other fuel	\$	-	-	1,216	81

Table 8.- Power Employed, 1921 and 1922

Power Units	Number of units		Total horse-power	
	1921	1922	1921	1922
	No.	No.	H.P.	H.P.
Total Power Used	-	-	-	650
Stationary engines -				
Steam	5	4	84	62
Gas	7	5	53	30
Oil and gasoline	30	21	250	115
Hydraulic turbines	2	3	5	38
Electric motors, purchased power .	37	55	547	405
Electric motors, generated power .	-	11	-	119
Boilers installed	10	7	211	186

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