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CANADA

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FOREST PRODUCTS BRANCH

REPORT
 on the
 BOX, BASKET & CRATE INDUSTRY
 in
 CANADA
 1921 and 1922

INCLUDING

- BOXES AND PACKING CASES
- BASKETS AND CRATES
- CIGAR BOXES
- BOX SHOOKS

+ + +

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OTTAWA

1924

DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY - FOREST PRODUCTS STATISTICS
OTTAWA, CANADA.

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THE BOX, BASKET AND CRATE INDUSTRY IN CANADA

1921 and 1922

Ottawa, June, 1924.- A report on the manufacture of boxes, baskets and crates in Canada for 1921 and 1922 has been completed by the Dominion Bureau of Statistics. The report covers four groups of industries, specializing in the manufacture of, (a) boxes and packing cases, (b) baskets and crates, (c) cigar boxes, (d) box shooks. In addition to these four industries, the manufacturers of sash, doors and millwork, woodenware and clothespins, and many sawmills, manufacture boxes, baskets, crates and box shooks as a side line or by-product. The wooden containers turned out in this latter group of mills are included in a supplementary table in this report. (Table 4(a).)

There were 133 factories specializing in this class of wooden containers in 1922 as compared to 127 in 1921. The total capital invested in 1922 was \$6,113,174, the total number of employees of all classes was 2,742 and the salaries and wages paid amounted to \$2,789,251. Raw materials were purchased to the value of \$4,256,082 and the value of the products manufactured amounted to \$8,585,992.

mills

The province of Ontario with 67 out of the total of 133 is the most important with regard to this industry. The remaining mills were distributed as follows:- Quebec 29; British Columbia, Manitoba and Nova Scotia, 8 each; New Brunswick 5; Alberta 4; and Saskatchewan and Prince Edward Island 2 each.

Tables 1 and 2 of this report give a summary of the principal statistics of these four industries and the distribution of their mills by provinces.

As the raw materials and products of these four industries are so nearly similar, they have been treated as one industry in this respect.

Sawn lumber, logs and bolts form the principal raw material and amounted to over a hundred million feet, board measure, in 1922. The purchase of lumber, round timber and veneer made up \$3,886,728 out of a total of \$4,256,082 for all raw materials purchased during 1922. The other more important materials are nails, hoop, band, and other iron and miscellaneous hardware.

The products manufactured, in order of importance with regard to value are: - boxes and packing cases \$4,045,169; box shooks \$1,911,116; veneer baskets \$1,086,190; cigar boxes \$431,886; cheese boxes \$187,923; veneer crates \$186,036; berry boxes \$172,143 and butter boxes \$72,008, making a total value for principal products of \$8,092,471. In addition to these principal products, the four industries also manufacture secondary products such as sash, doors, millwork, planed and matched lumber, woodenware, handles, turnery, etc. to the value of \$493,521, making a total value of \$8,585,992 for their entire production.

Sawmill and planing mill operators and manufacturers of sash, doors, millwork, woodenware and clothespins who manufactured this class of wooden containers as a side line or by-product turned out \$2,019,790 worth of boxes, baskets and crates in 1922. The total value of production for this class of wooden containers from all mills was \$10,112,261 in 1922.

Tables 3, 4 and 4(a) cover the materials used and products manufactured in this industry.

The total capital invested in this industry in 1922 amounted to \$8,113,174 of which about a third is invested in land, buildings and fixtures, a quarter in machinery and tools and a quarter in materials on hand. The remainder is working capital.

The mills manufacturing boxes and packing cases form the largest of the four groups and include three quarters of the capital invested.

Table 5 gives the details concerning capital invested in these four industries.

Of the 2,742 employees in these four industries in 1922, 2,609 were men, 254 being paid on a salary basis and 2,355 being wage earners. Out of the total of 133 women employees, 38 were salaried and 95 were wage earners. The total number of employees in 1922 was an increase of 183 from the total for 1921.

Table 6 gives the details concerning employment in this group of industries.

The manufacturers of boxes, baskets and crates purchased fuel to the value of \$38,169 in 1922 as compared to \$29,312 in 1921. The fuel was chiefly bituminous coal and wood with smaller quantities of gasoline, anthracite coal and coke.

Table 7 gives the details of fuel used in these industries.

Figures for power employed in 1921 do not distinguish between electric motors operated on power generated in the establishment and those operated on purchased power so that a total figure for power generated for these industries is not available. In 1922, 12,682 horse-power was used in these mills, made up of 7,548 horse-power from steam engines, 3,254 horse-power from electric motors on purchased power and smaller quantities from gas, oil and gasoline engines and hydraulic turbines.

Table 8 gives details concerning the power employed in this group of industries.

BOXES, BASKETS AND CRATES

Table 1.- Principal Statistics, 1921 and 1922.

Items	1921				
	Total for boxes, baskets and crates	Boxes and packing cases	Baskets and crates	Cigar boxes	Box shooks
Establishments No.	127	91	28	4	4
Capital invested \$	8,948,714	6,940,825	934,544	690,504	332,841
Employees on salaries No.	243	169	39	27	8
Salaries paid \$	494,188	365,829	63,611	45,587	19,161
Employees on wages No.	2,315	1,770	314	179	53
Wages paid \$	2,308,022	1,693,514	357,059	193,953	63,496
Fuel used \$	29,312	13,872	12,302	1,896	1,242
Miscellaneous expenses \$	1,086,866	803,527	154,530	99,718	24,091
Power employed h.p.	-	-	-	-	-
Cost of materials \$	4,787,249	3,611,012	459,450	431,551	285,236
Value of products \$	9,734,711	7,078,557	1,412,625	815,596	427,933
1922					
Establishments No.	133	93	28	4	8
Capital invested \$	8,113,174	5,953,582	1,029,751	672,488	457,353
Employees on salaries No.	292	215	40	23	9
Salaries paid \$	526,270	402,920	63,652	41,300	18,398
Employees on wages No.	2,450	1,734	358	229	129
Wages paid \$	2,262,931	1,622,408	350,707	160,608	129,198
Fuel used \$	38,169	22,577	11,609	3,090	893
Miscellaneous expenses \$	925,790	670,302	90,329	99,633	65,035
Power employed h.p.	11,582	9,109	1,211	682	560
Cost of materials \$	4,256,082	3,008,295	412,910	379,305	455,572
Value of products \$	8,535,992	6,051,188	1,083,424	746,261	705,119

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

Provinces	Total for boxes, baskets and crates	Boxes and packing cases	Baskets and crates	Cigar boxes	Box shooks
	No.	No.	No.	No.	No.
CANADA	133	93	28	4	8
Ontario	67	38	25	2	2
Quebec	29	24	3	2	-
British Columbia	8	8	-	-	-
Manitoba	8	8	-	-	-
Nova Scotia	8	7	-	-	1
Alberta	4	4	-	-	-
New Brunswick	5	2	-	-	3
Saskatchewan	2	1	-	-	1
Prince Edward Island	2	1	-	-	1

BOXES, BASKETS AND CRATES

Table 3.- Materials Used, 1921 and 1922

Materials		Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	4,787,249	4,256,082
Lumber and timber, softwood	M.ft.b.m.	112,632	96,550	3,373,801	3,044,587
Lumber and timber, hardwood	" "	21,024	14,162	872,290	630,281
Veneer	M.s.f.	5,314	7,000	167,448	211,860
Castings, iron and steel	\$	-	-	15,173	18,306
Iron rods	\$	-	-	16,230	17,767
Hoop and band iron	\$	-	-	31,935	8,980
Iron piping	\$	-	-	10,495	1,750
Hardware	\$	-	-	12,316	18,508
Nails, tacks and screws ..	\$	-	-	98,979	102,901
Paints, oils and varnishes	\$	-	-	11,273	2,718
Willow and cane	\$	-	-	-	675
All other materials	\$	-	-	177,309	197,749

Table 4.- Products Manufactured, 1921 and 1922

Products		Quantity		Value	
		1921	1922	1921	1922
x Berry boxes	No.	-	13,810,592	-	172,143
x Veneer baskets	"	-	13,808,021	-	1,086,190
x Veneer crates	"	13,480,925	935,175	1,275,113	186,036
x Box shocks	"	11,473,172	6,296,293	2,299,384	1,911,116
x Cheese boxes	"	-	779,532	-	187,923
x Butter boxes	"	3,222,897	241,323	990,457	72,008
Cigar boxes	"	3,193,435	2,773,381	476,534	431,886
All other boxes & cases	\$	-	-	2,957,416	4,045,169
Total Principal Products	\$	-	-	7,998,904	8,092,471
Matched & planed lumber	\$	-	-	772,564	281,449
Sash, doors and millwork	\$	-	-	493,626	87,877
Woodenware	\$	-	-	248,189	54,904
Handles	\$	-	-	50,708	12,975
Miscellaneous products	\$	-	-	170,720	56,316
Total Secondary Products	\$	-	-	1,735,807	493,521
Grand Total, all products	\$	-	-	9,734,711	8,585,992

x Grouped in 1921 reports.

BOXES, BASKETS AND CRATES

Table 4(a).- Total production of boxes, baskets and crates in factories of all kinds, 1922.

Products	Total Production		Produced in box, basket and crate factories		Produced in other wood-working factories	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	\$	No.	\$	No.	\$
TOTAL	-	10,112,261	-	8,092,471	-	2,019,790
Berry boxes	14,906,392	204,498	13,810,592	172,143	1,095,800	32,355
Veneer baskets	13,830,021	1,146,190	13,808,021	1,086,190	22,000	60,000
Veneer crates	1,025,175	202,580	935,175	186,036	90,000	16,544
Box shooks	10,510,414	2,873,889	6,296,293	1,911,116	4,214,121	962,773
Cheese boxes	1,595,934	284,088	779,532	137,923	816,402	96,165
Butter boxes	317,053	96,976	241,323	72,008	75,730	24,968
Cigar boxes	2,887,553	466,139	2,773,381	431,886	114,172	34,253
All other boxes ...	-	4,837,901	-	4,045,169	-	792,732

BOXES, BASKETS AND CRATES

Table 5.- Capital Invested, 1921 and 1922.

Industries	1 9 2 1				
	Total Capital Invested	Land, buildings and fixtures	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, trad- ing and operating accounts, etc.
Total for group ..	\$ 8,948,714	\$ 2,561,820	\$ 2,101,952	\$ 2,741,649	\$ 1,543,293
Boxes & packing cases	6,940,825	2,014,174	1,676,874	2,080,910	1,168,867
Baskets and crates .	984,544	196,393	256,978	359,789	170,884
Cigar boxes	690,504	218,512	136,006	182,369	153,617
Box shooks	332,841	132,241	32,094	118,581	49,925

Industries	1 9 2 2				
	Total Capital Invested	Land, buildings and fixtures	Machinery and tools	Materials on hand, stocks in process, etc.	Cash, trad- ing and operating accounts, etc.
Total for group ..	\$ 8,113,174	\$ 2,528,053	\$ 2,120,911	\$ 2,072,358	\$ 1,391,852
Boxes & packing cases	5,953,582	1,866,081	1,630,879	1,493,579	963,043
Baskets and crates .	1,029,751	351,330	232,801	185,294	260,326
Cigar boxes	672,488	217,997	135,708	216,316	102,467
Box shooks	457,353	92,645	121,523	177,169	66,016

Table 6.- Employment, 1921 and 1922.

Industries	1 9 2 1								
	Total Employees			Salaried Employees			Employees on Wages		
	Male No.	Fe- male No.	Salaries & wages \$	M. No.	F. No.	Salaries \$	Male No.	Fe- male No.	Wages \$
Total for group	2,394	165	2,802,210	203	40	494,188	2,191	125	2,308,022
Boxes and pack- ing cases	1,908	31	2,059,343	153	16	365,829	1,755	15	1,693,514
Baskets and crates	289	64	420,670	28	11	63,611	261	53	357,059
Cigar boxes ...	139	67	239,540	16	11	45,587	123	56	193,953
Box shooks	58	3	82,657	6	2	19,161	52	1	63,496

Industries	1 9 2 2								
	No.	No.	\$	No.	No.	\$	No.	No.	\$
Total for group	2,609	133	2,789,251	254	38	526,270	2,355	95	2,262,981
Boxes and pack- ing cases	1,896	53	2,025,388	199	16	402,920	1,697	37	1,622,468
Baskets and crates	383	15	414,359	30	10	63,652	353	5	350,707
Cigar boxes ...	194	63	201,908	18	10	41,300	176	53	160,608
Box shooks	136	2	147,596	7	2	18,398	129	-	129,198

BOXES, BASKETS AND CRATES

Table 7. - Fuel Used, 1921 and 1922

Kinds of Fuel	1 9 2 1									
	Total boxes, baskets and crates		Boxes and packing cases		Baskets and crates		Cigar boxes		Box shooks	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Val.	Quan.	Val.
Total \$	-	29,312	-	13,872	-	12,302	21	1,896	-	1,242
Bituminous coal ... ton	1,332	13,419	566	6,616	391	3,720	221	1,896	154	1,187
Anthracite coal ... ton	122	1,350	58	887	30	402	-	-	4	55
Coke "	2	18	2	18	-	-	-	-	-	-
Gasoline gal.	7,566	2,814	1,905	704	5,661	2,110	-	-	-	-
Wood cd.	2,188	10,957	1,353	4,906	835	6,051	-	-	-	-
Other fuel \$	-	754	-	741	-	13	-	-	-	-

Kinds of Fuel	1 9 2 2									
	Total boxes, baskets and crates		Boxes and packing cases		Baskets and crates		Cigar boxes		Box shooks	
	Quan.	Value	Quan.	Value	Quan.	Value	Quan.	Val.	Quan.	Val.
Total \$	-	38,169	-	22,577	-	11,609	-	3,090	-	893
Bituminous coal ... ton	1,648	16,795	845	8,623	423	4,422	314	3,090	66	660
Anthracite coal ... ton	24	375	5	72	19	303	-	-	-	-
Lignite coal ... "	39	311	19	102	20	209	-	-	-	-
Gasoline gal.	9,283	3,116	9,223	3,092	40	16	-	-	20	8
Fuel oil ... "	1,050	209	1,050	209	-	-	-	-	-	-
Wood cd.	2,148	16,146	1,343	9,362	787	6,659	-	-	18	125
Other fuel \$	-	1,217	-	1,117	-	-	-	-	-	100

Table 8. - Power Employed, 1921 and 1922

Power Units	1 9 2 1-									
	Total boxes, baskets and crates		Boxes and packing cases		Baskets and crates		Cigar boxes		Box shooks	
	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.
Stationary engines -										
Steam	69	6,162	52	5,067	12	500	3	340	2	255
Oil and gasoline ...	11	130	10	111	1	19	-	-	-	-
Hydraulic turbines ...	17	752	15	652	2	100	-	-	-	-
Electric motors	229	4,229	185	3,570	10	205	19	164	15	290
Boilers installed	102	7,474	83	6,114	14	785	3	300	2	275

Power Units	1 9 2 2									
	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.
	Total power generated	332	12,682	249	9,109	41	1,211	26	682	6
Stationary engines -										
Steam	115	7,543	90	5,825	16	705	5	490	4	528
Gas	6	335	5	327	1	8	-	-	-	-
Oil and gasoline	9	61	8	54	-	-	-	-	1	7
Hydraulic turbines	13	384	9	209	3	130	-	-	1	45
Electric motors, purchased power	179	3,254	137	2,694	21	368	21	192	-	-
Electric motors, generated power	98	1,646	82	1,406	-	-	-	-	16	240
Boilers installed	118	8,451	91	6,456	18	1,040	3	350	6	605

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