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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
FOREST PRODUCTS BRANCH

PRELIMINARY REPORT
on the
PAPER BOX & BAG INDUSTRY
in
CANADA
1924

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1925

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CANADA

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THE PAPER BOX AND BAG INDUSTRY, 1924

Ottawa, August 26th, 1925.- A revised report on the Paper Box and Bag Industry in Canada for 1924 has just been issued by the Forest Products Branch of the Dominion Bureau of Statistics. This is one of the most important of the secondary manufacturing industries depending on the pulp and paper industry for raw material.

The report covers only those firms which specialise in the manufacture of stiff, folding and corrugated boxes, cartons and other paper board containers and paper bags. These firms also manufacture in many cases, envelopes, egg case fillers, paper drinking cups, bottle wrappers, mailing tubes and other miscellaneous products. The figures relating to production are not in all cases to be regarded as comprehensive as some of these products are also manufactured as side lines in other groups of industries.

There were 94 firms engaged in the manufacturing of paper boxes and bags as their principal product in 1924, involving the investment of \$15,678,478 as capital. The industry gave employment to 3,909 people and paid \$3,543,193 in salaries and wages. The total cost of materials which consisted chiefly of paper board, paper, glue, ink and other materials was \$6,058,067 of which \$1,635,787 was used in the manufacture of stiff boxes, \$1,562,542 in the manufacture of folding boxes, \$1,760,516 in the manufacture of corrugated boxes and wrappers and \$1,099,222 in the manufacture of paper bags, envelopes and other products.

The total value of all products of this group of industries in 1924 was \$12,556,840; being made up chiefly of stiff boxes valued at \$4,103,595; folding boxes valued at \$2,324,321, corrugated boxes and wrappers valued at \$2,395,254 and paper bags valued at \$1,533,924.

Ontario leads the other provinces in the manufacture of these commodities with Quebec, Manitoba, New Brunswick, British Columbia and Alberta following in order of importance.

Tables showing details of products manufactured, materials used, capital invested, employment and working time, by provinces are included in the report.

THE PAPER BOX AND BAG INDUSTRY, 1924

Table 1.- Triennial statistics, 1924.

Items	Canada	New Brunswick	Quebec	Ontario	Manitoba	Alberta and British Columbia
Number of establishments No.	94	4	23	55	6	3
Capital invested..... \$	15,678,478	152,557	3,375,676	11,647,191	276,035	186,919
Employees on salaries... No.	509	14	99	374	9	13
Employees on wages..... No.	3,400	62	1,009	2,160	101	68
Total employees..... No.	3,909	76	1,108	2,534	110	81
Salaries paid..... \$	1,144,831	12,661	201,459	825,246	61,847	43,618
Wages paid..... \$	2,398,362	29,916	592,006	1,639,209	80,765	56,466
Total salaries and wages \$	3,543,193	42,577	793,465	2,464,455	142,612	100,084
Fuel used..... \$	89,932	981	19,132	65,662	2,205	1,952
Power employed..... H.P.	4,323	40	508	3,513	210	52
Cost of materials..... \$	6,058,067	58,922	1,171,369	4,453,607	220,071	154,096
Value of products..... \$	12,556,840	130,513	2,753,939	8,927,061	478,410	266,917

Table 2.- Products manufactured, by provinces, 1924.

Products	Canada	New Brunswick	Quebec	Ontario	Manitoba	Alberta and British Columbia
	\$	\$	\$	\$	\$	\$
Stiff boxes	4,103,355	102,616	1,359,323	2,391,531	128,953	120,940
Folding boxes.....	2,824,821	27,865	270,375	2,200,482	180,122	145,977
Corrugated boxes.....	2,395,254	-	634,748	1,710,506	-	-
All other boxes.....	719,365	-	7,869	702,496	9,000	-
Self opening bags....	1,133,004	-	173,814	872,140	87,050	-
Millinery bags.....	2,476	-	2,254	222	-	-
Special bags.....	356,518	-	4,063	392,455	-	-
Envelopes.....	440,629	-	48,514	392,115	-	-
Egg case fillers.....	81,516	-	-	81,516	-	-
Drinking cups.....	73,343	-	53,561	19,782	-	-
All other products...	356,518	-	149,418	153,816	73,285	-
Total.....	12,556,840	130,513	2,753,939	8,927,061	478,410	266,917

Table 3.- Materials Used, by provinces, 1924.

Materials	CANADA		NEW BRUNSWICK		QUEBEC	
	Quantity tons	Value \$	Quantity tons	Value \$	Quantity tons	Value \$
Stiff box materials.....	-	1,655,787	-	-	-	514,934
Non-folding board.....	46,213	1,009,602	406	27,581	4,242	307,007
Paper.....	-	403,094	-	9,620	-	161,571
Ink.....	-	6,473	-	25	-	390
Printing plates.....	-	10,050	-	69	-	130
Glue and other adhesives.....	-	69,011	-	2,291	-	28,472
Shipping containers.....	-	2,504	-	120	-	300
Miscellaneous.....	-	135,053	-	7,058	-	47,064
Folding box materials.....	-	1,562,542	-	-	-	137,443
Folding board.....	78,055	1,275,524	162	11,582	1,509	120,542
Ink.....	-	54,479	-	127	-	5,616
Printing plates.....	-	54,387	-	-	-	-
Die board.....	-	3,842	-	124	-	-
Die rule.....	-	6,063	-	180	-	200
Glue and other adhesives.....	-	10,738	-	36	-	1,055
Paraffin.....	-	13,449	-	10	-	24
Silicate of soda.....	-	647	-	-	-	-
Wrapping paper.....	-	10,444	-	27	-	-
Shipping containers.....	-	17,280	-	30	-	-
Miscellaneous.....	-	115,689	-	42	-	10,006
Corrugated box materials.....	-	1,760,516	-	-	-	335,534
Straw board.....	6,199	486,415	-	-	1,108	87,659
Other paper board.....	17,592	1,064,898	-	-	3,107	207,415
Paper.....	-	46,372	-	-	-	-
Ink.....	-	3,275	-	-	-	1,200
Glue and other adhesives.....	-	61,493	-	-	-	12,040
Shipping containers.....	-	3,500	-	-	-	-
Miscellaneous.....	-	94,563	-	-	-	27,220
Bag, envelope and other materials.....	-	1,099,222	-	-	-	153,458
Paper board.....	356	25,882	-	-	69	8,398
Paper.....	-	909,418	-	-	-	131,043
Ink.....	-	13,745	-	-	-	488
Glue and other adhesives.....	-	22,271	-	-	-	1,103
Shipping containers.....	-	29,093	-	-	-	-
Miscellaneous.....	-	98,813	-	-	-	12,426
Total, all materials.....	-	6,058,067	-	58,922	-	1,171,369
Board.....	148,915	3,862,321	568	39,163	10,535	731,021
Paper.....	-	1,358,884	-	9,620	-	292,614
Ink.....	-	77,972	-	152	-	7,694
Printing plates.....	-	64,437	-	69	-	130
Die board.....	-	3,842	-	124	-	-
Die rule.....	-	6,063	-	180	-	200
Glue and other adhesives.....	-	163,513	-	2,327	-	42,670
Paraffin.....	-	13,449	-	10	-	24
Silicate of soda.....	-	647	-	-	-	-
Wrapping paper.....	-	10,444	-	27	-	-
Shipping containers.....	-	52,377	-	150	-	300
Miscellaneous.....	-	444,118	-	7,100	-	96,716

Table 3.—(Continued).—Materials Used, by provinces, 1924.

Materials	ONTARIO		MANITOBA		ALBERTA AND BRITISH COLUMBIA	
	Quantity tons	Value \$	Quantity tons	Value \$	Quantity tons	Value \$
Stiff box materials.....	-	951,483	-	50,419	-	42,182
Non-folding board.....	40,260	611,642	434	34,390	351	28,782
Paper.....	-	216,940	-	7,095	-	7,863
Ink.....	-	5,842	-	-	-	216
Printing plates.....	-	9,507	-	-	-	344
Glue and other adhesives.....	-	35,951	-	1,333	-	984
Shipping containers.....	-	1,911	-	45	-	128
Miscellaneous.....	-	69,515	-	7,556	-	3,860
Folding box materials.....	-	1,220,369	-	80,656	-	111,916
Folding board.....	74,957	977,666	627	66,920	800	98,794
Ink.....	-	42,764	-	2,147	-	3,825
Printing plates.....	-	52,560	-	1,238	-	588
Die board.....	-	3,427	-	176	-	115
Die rule.....	-	5,257	-	339	-	87
Glue and other adhesives.....	-	8,762	-	541	-	324
Paraffin.....	-	11,375	-	556	-	1,484
Silicate of soda.....	-	632	-	15	-	-
Wrapping paper.....	-	9,373	-	894	-	150
Shipping containers.....	-	15,822	-	45	-	1,383
Miscellaneous.....	-	92,691	-	7,764	-	5,166
Corrugated box materials.....	-	1,383,365	-	41,617	-	-
Straw board.....	5,591	398,756	-	-	-	-
Other paper board.....	14,485	857,483	-	-	-	-
Paper.....	-	7,700	-	38,672	-	-
Ink.....	-	2,075	-	-	-	-
Glue and other adhesives.....	-	48,853	-	600	-	-
Shipping containers.....	-	3,500	-	-	-	-
Miscellaneous.....	-	64,998	-	2,345	-	-
Bag, envelope and other materials.....	-	898,385	-	47,379	-	-
Paper board.....	287	17,484	-	-	-	-
Paper.....	-	732,915	-	45,460	-	-
Ink.....	-	13,220	-	37	-	-
Glue and other adhesives.....	-	20,514	-	654	-	-
Shipping containers.....	-	29,093	-	-	-	-
Miscellaneous.....	-	85,159	-	1,228	-	-
Total, all materials.....	-	4,453,607	-	220,071	-	154,098
Board.....	135,600	2,263,251	1,061	101,210	1,151	127,576
Paper.....	-	957,555	-	91,227	-	7,868
Ink.....	-	63,901	-	2,184	-	4,041
Printing plates.....	-	62,067	-	1,239	-	932
Die board.....	-	3,427	-	176	-	1,308
Die rule.....	-	5,257	-	339	-	115
Glue and other adhesives.....	-	114,080	-	3,128	-	87
Paraffin.....	-	11,375	-	556	-	1,484
Silicate of soda.....	-	632	-	15	-	-
Wrapping paper.....	-	9,373	-	894	-	150
Shipping containers.....	-	50,326	-	90	-	1,511
Miscellaneous.....	-	312,363	-	18,913	-	9,026

THE PAPER BOX AND BAG INDUSTRY, 1924

Table 4.- Capital invested, by provinces, 1924.

Provinces	Total Capital	Land buildings, machinery, tools, etc.	Materials on hand, stocks in process, etc.	Cash and accounts
	\$	\$	\$	\$
Canada	15,573,473	9,241,553	2,562,702	3,874,223
New Brunswick	192,657	68,976	63,501	40,180
Quebec	3,375,676	2,241,187	516,806	617,683
Ontario	11,047,191	6,755,657	1,855,904	3,055,450
Manitoba	275,035	136,823	58,698	80,509
Alberta and British Columbia	168,919	58,725	47,793	80,401

Table 5.- Employees, salaries and wages, by provinces, 1924.

Classes of employment, by provinces.	Employees			Total salaries and wages
	Males	Females	Total	\$
	no.	no.	no.	
New Brunswick	26	48	76	42,577
Salaried employees.....	8	6	14	12,661
Employees on wages.....	20	42	62	29,916
Quebec.....	422	686	1,108	793,465
Salaried employees.....	72	27	99	201,459
Employees on wages.....	350	659	1,009	592,006
Ontario.....	1,264	1,270	2,534	2,464,455
Salaried employees.....	275	99	374	325,246
Employees on wages.....	989	1,171	2,160	1,639,209
Manitoba.....	54	56	110	142,612
Salaried employees.....	7	2	9	61,847
Employees on wages.....	47	54	101	80,765
Alberta and British Columbia...	32	49	81	100,084
Salaried employees.....	9	4	13	43,618
Employees on wages.....	23	45	68	56,466
Canada.....	1,800	2,109	3,909	3,543,193
Salaried employees.....	371	136	509	1,144,851
Employees on wages.....	1,429	1,971	3,400	2,398,362

THE PAPER BOX AND BAG INDUSTRY, 1924

Table 6.- Employees on wages, by months and by provinces, 1924.

Months	CANADA	New Brunswick	Quebec	Ontario	Manitoba	Alberta and British Columbia
January.....	3,285	57	930	2,125	106	57
February.....	3,287	62	963	2,096	100	66
March.....	3,323	61	977	2,117	102	66
April.....	3,327	60	988	2,114	102	63
May.....	3,352	58	1,008	2,131	95	60
June.....	3,311	60	976	2,120	91	64
July.....	3,315	59	968	2,132	95	61
August.....	3,341	63	976	2,138	96	68
September.....	3,506	62	1,039	2,228	104	73
October.....	3,559	64	1,080	2,233	105	77
November.....	3,612	66	1,094	2,270	102	80
December.....	3,542	65	1,102	2,220	115	80
Average for year....	3,400	62	1,009	2,160	101	68

Table 7.- Working time, by provinces, 1924.

	Number of Firms Reporting	Days in operation		Days idle
		On full time	On part time	
	no.	no.	no.	no.
Totals - Canada.....	94	25,085	2,273	1,140
New Brunswick.....	4	1,190	13	21
Quebec.....	24	6,086	678	494
Ontario.....	58	15,188	1,476	855
Manitoba.....	6	1,715	106	64
Alberta and British Columbia....	3	906	-	6
Averages per mill - Canada..	-	267	24	15
New Brunswick.....	-	298	3	5
Quebec.....	-	253	28	21
Ontario.....	-	262	25	15
Manitoba.....	-	286	18	11
Alberta and British Columbia....	-	301	-	2

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