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CENSUS OF INDUSTRY

REPORT

on the

PAPER PRODUCTS INDUSTRIES

in

CANADA

1921 and 1922

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CENSUS OF INDUSTRY - FOREST PRODUCTS BRANCH
OTTAWA, CANADA.

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MISCELLANEOUS PAPER PRODUCTS INDUSTRIES IN CANADA

1921 - 1922

Ottawa, May, 1924.- A report on the Miscellaneous Paper Products industries in Canada for 1921 and 1922 has been completed by the Dominion Bureau of Statistics. This group of industries includes the manufacture of paper boxes, building and roofing paper, stationery and envelopes, wall paper, waxed and oiled paper, paper patterns, and other miscellaneous paper products. These seven groups are fairly distinct, there being few cases of one establishment manufacturing products included under two or more groups.

Table 1 which accompanies this report gives a summary of the principal statistics of the seven groups included. The first section covers the manufacture of paper boxes, bags, and other containers. There were 86 such establishments in Canada in 1922 of which 54 were located in Ontario, 21 in Quebec, 4 each in New Brunswick and Manitoba, 2 in British Columbia and one in Alberta. The raw materials used in this industry are chiefly paperboard and paper with the necessary adhesives, water-proofing, and reinforcing materials and printing ink. The products are boxes, cartons, canisters, mailing tubes, bags, egg case fillers, paper drinking cups and corrugated paper wrappers. Some envelopes and other stationery are also manufactured as side lines. This group of industries employed 3,478 people in 1922 and paid \$3,157,775 in wages and salaries. The capital invested amounted to \$12,153,682.

Details of materials used and products manufactured are given in Tables 2 and 3.

The second group of industries includes those manufacturing roofing and building paper of which 13 were in operation in Canada in 1922, 7 being located in Ontario and 2 each in Quebec, Manitoba and British Columbia. Generally speaking these firms purchase felt papers from the paper mills and treat these with different water-proofing and fire-resisting preparations to render them suitable for roofing and insulating purposes in building construction. Several of these firms operate paper mills and manufacture their own felts and others are engaged in tar distillation and produce their own saturation materials. On this account it is difficult to make an exact separation between the statistics of this group of industries and the pulp, paper and coal tar distillation industries. The principal raw materials are paper felt, paperboard, wood pulp, other fibre and rags, together with tar, asphalt, flum oil and certain fire-resisting chemicals.

A large quantity of mineral surfacing is used for composition roofing consisting of magnesite, silico sand, dolomite, crushed slate, and other stone, talc, feldspar, marble dust, asbestos and asbestos sand. The products are, composition roofing in rolls, slates and shingles, saturated felt, composition wall board and a surplus of paper felt and tar distillation products. Composition roofing is usually sold in rolls containing 108 square feet of material sufficient to cover one "square" or an area of one hundred square feet with an allowance for joints. The shingles and slates are also sold by the square. Ordinary building paper is sold by the roll, each roll containing on an average the equivalent of four "squares". Saturated felt is sold by the pound or ton. This industry employed 717 people in 1922 with a payroll of \$1,053,585. A total of \$5,901,306 was invested in the industry in 1922.

Tables 4 and 5 give the details of materials and products for this industry.

Establishments that specialize in the manufacture of stationery and envelopes are dealt with in the third group, which included in 1922, 16 firms distributed as follows, - Ontario 11, Manitoba 3 and Quebec 2. The materials are similar to those used in the paper box industry from which this group cannot be entirely separated. Paper, paperboard and the necessary adhesives form the bulk of the materials, while envelopes, writing paper and writing pads form the bulk of the products with some boxes, bags and paper cups as side lines. There were 1,110 employees, mostly female in 1922. The wages and salaries amounted to \$1,180,822 and the capital invested to \$3,505,028.

Tables 6 and 7 give further details concerning this industry.

Wall paper manufacturers are dealt with in the fourth section of this report. The paper used is largely newsprint, purchased from Canadian paper mills and surfaced and printed in these establishments, of which there were four in operation in Canada in 1922. Two of these were located in Ontario and two in Quebec. Paper and colours are the most important raw materials together with fillers, size and surfacing materials. The industry produced over eighteen million rolls of wall paper in 1922, giving employment to 558 people and paying \$755,702 in salaries and wages. The total capital invested amounted to \$2,499,834.

Tables 8 and 9 give details of the materials and products of this industry.

The fifth section of this report deals with waxed, oiled and water-proofed papers, manufactured by 7 factories in Ontario in 1922. These firms purchase their paper from paper mills and treat it to render it water or grease-proof. Some Canadian paper mills manufacture paper from pulp and carry the process a step further, producing waxed and oiled papers in the paper mill. Their operations are dealt with under the pulp and paper industry and are not included in this report. The raw material used in this industry is chiefly paper with a relatively small quantity of cloth.

Wax, glue and sulphuric acid are the most important materials used in treating the paper and cloth. The products are waxed, gummed and water-proofed paper, gummed cloth and vegetable parchment with parchment excelsior as a by-product. The employees numbered 263 in 1922 with a payroll of \$364,344. Capital invested in the industry amounted to \$1,417,219 in 1922.

Tables 10 and 11 give the further details in connection with this industry.

Paper patterns are manufactured in Canada by 5 factories in Ontario and one in Nova Scotia. Tissue paper and newsprint are the most important materials used, together with smaller quantities of book paper and decalcomania paper for transfers. Some of these firms also use hessian cloth or burlap for rug patterns. The products are paper patterns, decalcomania transfers and rug patterns. Most of the pattern makers also publish fashion sheets and quarterlies and derive a large part of their revenue from what is primarily the printing and publishing business. The six firms in operation in Canada in 1922 employed 192 people, paying \$191,502 in salaries and wages and employing \$854,145 as capital.

Tables 12 and 13 deal with the details of this group.

The final group includes a number of small miscellaneous industries using paper or pulp as a raw material. There were twenty factories operating in 1922 of which 10 were located in Ontario, 8 in Quebec, and one each in Manitoba and British Columbia. These firms manufactured fly paper, fly poison pads, leather board products such as shoe counters, heels and box toes, sensitized blue, black and brown print paper and cloth, photo mounts and mats, milk bottle caps, merchandise, shipping and alteration tags, labels, and tapes. The raw materials in fly paper manufacture are chiefly manila paper, castor oil and rosin. In the manufacture of boot and shoe findings, leather-board is the chief raw material. This is sometimes purchased from paper mills specializing in its manufacture and sometimes made by the manufacturer of shoe findings. It is a composition of leather scrap and pulp with some binding and water-proofing material. Manufacturers of blue printing and similar papers purchase their coating paper from the mills and treat it with various chemicals. These twenty factories employed 212 people in 1922 paying \$193,117 in salaries and wages. The capital invested in that year amounted to \$534,633.

Tables 14 and 15 give the details concerning the materials and products of this industry for 1921 and 1922.

MISCELLANEOUS PAPER PRODUCTS, 1921 and 1922

Table 1.- Principal Statistics

1921

Items	Paper Boxes	Building and roofing paper	Stationery and envelopes	Wall Paper	Waxed and oiled paper	Paper patterns	All other paper goods	Total miscellaneous paper products
Establishments	No.	89	14	12	4	7	6	11 143
Capital invested	\$	11,022,338	6,368,840	2,851,801	2,506,924	1,185,359	810,014	382,317 25,127,663
Employees on salaries ..	No.	452	213	262	162	100	56	30 1,274
Salaries paid	\$	893,223	459,497	471,939	460,457	177,833	74,634	47,222 2,584,805
Employees on wages ..	No.	2,873	548	708	400	171	134	119 4,950
Wages paid	\$	2,002,154	659,707	635,199	346,853	212,237	109,607	69,495 4,035,252
Fuel used	\$	60,077	150,946	17,142	46,608	16,290	2,540	2,575 296,178
Miscellaneous expenses	\$	1,374,936	710,140	684,931	802,749	204,122	270,994	102,434 4,150,306
Cost of materials	\$	4,445,752	3,974,893	2,229,384	1,130,648	1,041,561	177,202	243,870 13,243,290
Value of products	\$	10,133,177	7,465,482	4,392,161	2,983,306	1,610,631	1,309,567	607,727 28,502,045

1922

Establishments	No.	86	13	16	4	7	6	20 152
Capital invested	\$	12,153,682	5,901,306	3,505,028	2,499,834	1,417,219	354,145	534,683 26,865,897
Employees on salaries ..	No.	472	218	263	155	70	61	50 1,290
Salaries paid	\$	1,023,491	486,606	445,453	403,783	144,111	71,456	73,495 2,648,395
Employees on wages ..	No.	3,006	499	847	403	193	131	162 5,244
Wages paid	\$	2,134,284	571,979	735,369	351,919	220,233	120,046	119,622 4,253,452
Fuel used	\$	86,581	146,065	20,864	40,695	17,699	2,645	4,071 318,620
Miscellaneous expenses	\$	1,325,563	793,093	774,102	730,032	340,873	285,586	138,945 4,388,194
Cost of materials	\$	5,090,601	3,410,931	2,469,227	823,860	1,221,095	171,351	302,928 13,489,993
Value of products	\$	11,233,443	6,565,850	4,876,562	484,783	2,103,306	1,326,118	797,721 29,387,783

SECTION 1.- PAPER BOXES

Table 2.- Materials Used, 1921 and 1922

Materials		Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	4,445,732	5,090,601
Paper board	tons	27,885	35,264	2,124,319	2,682,648
Paper	tons	11,385	13,027	1,420,789	1,503,368
Paper	reams	29,924	2076,435	151,663	204,403
Adhesives	\$	-	-	122,392	75,815
Silicate of soda	\$	-	-	25,516	57,602
Inks	lbs.	23,465	34,575	19,805	26,857
Cloth	\$	-	-	19,560	19,181
Tape, ribbon and braid	\$	-	-	20,335	40,639
All other materials ..	\$	-	-	540,853	480,088

Table 3.- Products Manufactured, 1921 and 1922

Products		Value	
		1921	1922
TOTAL		10,133,177	11,233,443
Boxes, cartons, etc.....		8,078,860	9,066,698
Paper bags		1,188,426	1,168,174
Egg case fillers		54,686	95,846
Envelopes		51,739	47,955
Paper drinking cups		26,100	31,821
All other products		733,366	822,949

SECTION 2.- ROOFING AND BUILDING PAPER

Table 4.- Materials Used, 1921 and 1922.

Materials		Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	3,974,893	3,410,931
Paper, felt & paper board tons		12,022	16,511	1,019,199	1,121,841
Fulp, fibre and rags	"	7,834	9,732	520,592	500,111
Tax	gal.	6,341,105	6,533,320	532,418	499,042
Asphalt	tons	14,793	19,866	449,609	443,726
Flux oil	gal.	1,927,245	1,578,578	186,946	136,135
Chemicals	tons	636	2,308	47,977	54,173
Mineral surfacing	"	8,003	8,571	107,845	115,499
All other materials	\$	-	-	1,110,307	540,404

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SECTION 2 (Cont'd.).- ROOFING AND BUILDING PAPER

Table 5.- Products Manufactured, 1921 and 1922

Products	Quantity		Value	
	1921	1922	1921	1922
TOTAL	-	-	\$ 7,465,482	\$ 6,565,850
Composition roofing .. squares	-	1,203,989	2,767,998	2,185,130
Composition shingles .. "	-	126,430	507,621	694,141
Saturated felt .. tons	-	12,980	471,621	877,593
Other building paper .. squares	-	1,887,792	317,110	545,005
Wall board .. m.sqif,ft	40,366	36,368	1,445,433	1,098,990
Stucco board .. "	-	1,097	-	27,435
Plaster and stucco .. tons	270	1,750	18,720	44,830
Pitch .. "	3,660	4,121	222,265	129,299
Refined tar & tarvia .. gal.	4,249,644	3,929,682	741,397	653,385
Creosote oils .. "	766,935	312,002	223,336	120,532
All other products .. \$	-	-	749,931	189,510

SECTION 3.- ENVELOPES AND STATIONERY

Table 6.- Materials Used, 1921 and 1922.

Materials	Quantity		Value	
	1921	1922	1921	1922
TOTAL	-	-	\$ 2,229,384	\$ 2,469,227
Paper .. tons	-	7,251	1,162,380	1,103,937
Paper .. rms.	-	25,694	-	80,442
Paper board .. tons	-	3,597	145,649	226,051
Ink and varnish .. lbs.	-	64,194	27,255	46,690
Adhesives .. "	-	184,740	3,903	17,762
All other materials .. \$	-	-	890,192	994,345

Table 7.- Products Manufactured, 1921 and 1922.

Products	Quantity		Value	
	1921	1922	1921	1922
TOTAL	-	-	\$ 4,392,161	\$ 4,876,562
Envelopes .. No.	-	793,438,525	1,807,686	1,814,986
Papeteries .. boxes	-	964,775	-	249,833
Tablets .. No.	-	4,684,102	185,968	430,671
Note paper .. reams	-	18,900	-	45,811
Other stationery .. \$	-	-	1,513,596	1,211,831
Boxes and cartons .. No.	-	70,534,250	478,566	455,610
Paper bags .. No.	-	21,205,770	25,422	36,970
Paper cups .. No.	-	2,397,750	9,589	4,843
All other products .. \$	-	-	371,334	626,007

SECTION 4.- WALL PAPER

Table 8.- Materials Used, 1921 and 1922

Materials	\$	Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	1,130,648	823,860
Paper	tons	3,807	4,313	848,331	563,739
Colour and dyes	lbs.	1,282,085	1,367,494	111,916	105,600
Clay	"	2,689,714	2,783,019	30,614	31,405
Glue and dextrine	"	242,895	258,671	29,231	26,894
Mica and aluminate	"	235,540	-	22,703	18,160
Print rollers	"	-	-	17,884	18,220
Bronze	"	19,314	19,822	19,912	16,760
Sizing	"	-	-	4,168	6,866
Varnish	gal.	-	4,000	9,279	6,094
Chemicals	lbs.	96,695	64,303	10,186	4,435
Potato starch	"	11,100	8,400	1,055	707
All other materials ..	\$	-	-	25,369	24,890

Table 9.- Products Manufactured, 1921 and 1922.

Products	Quantity	Value			
		1921	1922	\$	
Wall paper	rolls	16,629,580	18,136,079	2,983,306	2,434,783

SECTION 5.- WAXED AND OILED PAPER

Table 10.- Materials Used, 1921 and 1922

Materials	Quantity	Value			
		1921	1922	\$	
TOTAL	-	-	1,041,561	1,221,095	
Paper	tons	2,580	3,944	679,118	872,829
Cloth	yds.	180,312	-	36,163	61,976
Wax	lbs.	1,433,797	958,500	153,712	85,786
Glue	"	216,719	300,225	29,522	33,110
Ink	"	7,560	20,574	9,329	23,389
Sulphuric acid	"	786,780	1,610,440	9,188	17,439
All other materials ..	\$	-	-	124,529	126,616

Table 11.- Products Manufactured, 1921 and 1922.

Products	Value			
	1921	1922	\$	\$
TOTAL	1,610,631	2,103,306		
Waxed paper	999,290	1,131,162		
Parchment paper	231,536	344,871		
Gummed paper	148,929	238,823		
Water-proofed paper	31,402	30,203		
Parchment excelsior	2,501	3,198		
Gummed cloth	6,309	15,258		
All other products	190,564	339,731		

SECTION 7.- PAPER PATTERNS

Table 12.- Materials Used, 1921 and 1922

Materials	\$	Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	177,202	171,351
Tissue paper	reams	3,704	3,704	40,031	34,537
Newsprint	tons	288	739	34,613	33,183
Book paper	"	-	85	-	12,507
Book paper	reams	715,580	1,290	10,542	11,561
Decalcomania paper	"	-	100	8,033	2,079
Hessian cloth & burlap	yds.	47,438	78,642	5,792	10,233
Pattern diagrams	No.	4,700,000	3,706,425	11,573	10,410
Patterns	"	1,018,735	1,084,170	38,324	31,939
Printing ink	lbs.	3,000	5,570	1,517	4,976
All other materials ...	\$	-	-	26,777	19,926

Table 13.- Products Manufactured, 1921 and 1922

Products	\$	Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	1,309,567	1,326,118
Paper patterns	No.	5,522,275	5,011,815	1,082,920	1,028,096
Fashion sheets, etc...	"	-	-	98,958	163,894
Decalcomania transfers	"	-	-	105,058	111,393
Rug patterns	"	-	-	16,121	17,900
All other products ...	\$	-	-	6,510	4,835

SECTION 8.- OTHER PAPER PRODUCTS

Table 14.- Materials Used, 1921 and 1922.

Materials	\$	Quantity		Value	
		1921	1922	1921	1922
TOTAL	\$	-	-	243,870	302,928
Paper	tons	160	309	29,030	69,034
Paper board	"	-	357	19,010	38,308
Pulp	"	-	37	-	6,680
Leather board	"	-	997	48,593	85,183
Leather scrap, etc....	"	95	263	13,942	14,298
Adhesives	\$	-	-	9,285	14,168
Ink	lbs.	-	1,943	83	3,359
Castor oil	"	-	-	10,043	8,298
Rosin	"	-	-	4,070	2,937
All other materials ..	\$	-	-	109,814	60,661

SECTION 3 (Cont'd.) OTHER PAPER PRODUCTS

Table 15.- Products Manufactured, 1921 and 1922.

Products		Quantity		Value	
		1921	1922	1921	1922
TOTAL		-	-	\$ 607,727	\$ 797,721
Fly paper sheets	boxes	-	21,531	63,350	93,612
Fly paper coils	No.	-	1,000,000	-	17,500
Fly pads	crates	-	1,077	82,350	71,697
Shoe heels	pairs	-	4,275,801	144,512	227,487
Shoe counters	"	-	2,441,988	28,902	26,237
Sensitized paper & cloth	doz	-	-	9,148	74,487
Photo mounts, etc.....	doz	-	-	186,598	55,064
Shipping tags and labels	doz	-	-	71,126	99,557
Milk bottle caps	doz	-	-	-	95,567
All other products	doz	-	-	21,741	31,513

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