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CENSUS OF INDUSTRY - FORESTRY BRANCH
OTTAWA - CANADA

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ROOFING PAPER, 1933.

Ottawa, November, 1934. - A report on the manufacture of asphalt shingles and siding, composition roll roofings and tar and asphalt felts and sheathings in Canada during the calendar year 1933 has been issued by the Forestry Branch of the Dominion Bureau of Statistics at Ottawa.

Twelve establishments engaged wholly or chiefly in the manufacture of this type of roofing material form a separate industrial group under the Census of Manufactures. This group is known as the Roofing Paper Industry and it produced in 1933 over 87 per cent of the total value of the output in Canada. The remaining 13 per cent was reported as being manufactured in eight other establishments classed in other industrial groups, whose output of this material was less than that of other products.

The twelve establishments forming the Roofing Paper Industry were located as follows: - Quebec five, Ontario three, British Columbia two, Manitoba one and New Brunswick one.

Their total capital amounted to \$3,920,706. They gave employment to 517 workers, distributed \$659,456 in wages and salaries and were equipped to supply 3,452 horse power of energy. They purchased \$24,208 worth of electricity and \$74,905 worth of fuel.

The raw materials used in this industry were valued at \$1,616,075 and consisted chiefly of rag, asbestos, Solka and other felts and sheathings amounting to 8,770 tons valued at \$427,557, asphalt amounting to 30,923 tons valued at \$466,740, tar amounting to 386,464 gallons valued at \$32,807, mineral surfacings amounting to 19,929 tons valued at \$260,192 together with wood pulp, rags and other fibre, other saturating materials and miscellaneous items.

The principal products of the twelve establishments in this group were valued at \$3,178,822 and consisted of shingles, 223,043 squares valued at \$1,023,626; siding, 31,327 squares valued at \$180,375; smooth surfaced roll roofing, 684,315 squares valued at \$1,002,387; mineral surfaced roll roofing, 233,123 squares valued at \$490,120; saturated felts, 4,929 tons valued at \$299,173 and saturated sheathings, 2,587 tons valued at \$183,141.

Secondary products valued at \$408,012 consisted of untreated felts and sheathings, paints, cements and other roof coatings and miscellaneous products. The total gross value of production of the twelve establishments in the group was valued at \$3,586,834.

Tables 1 to 8 give the more important statistics of the twelve establishments in this group in detail.

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PRODUCTION IN OTHER INDUSTRIAL GROUPS

In addition to the \$3,178,822 worth of roofing paper reported by the twelve establishments engaged wholly or chiefly in its production, \$408,275 worth of similar products were reported by eight other establishments, classed in other industrial groups, whose output of roofing paper was less than that of other products.

MONTHLY STATISTICS

Monthly reports are issued by the Forestry Branch of the Dominion Bureau of Statistics showing the total tonnage production of asphalt roofing including both the production of the twelve establishments classed in the Roofing Paper Industry proper and the eight other establishments reporting it as a side line. These figures show that in 1933 the production of shingles, siding and saturated felts decreased from 1932 while the production of smooth and mineral surfaced roll roofing and saturated sheathings increased. Figures for the first ten months of 1934 show increased production over the same period in 1933 in the cases of shingles, siding, saturated felts and sheathings with decreases in both classes of roll roofing.

Table 9 gives the tonnage production for the month of October, 1934, and figures for previous periods for comparison.

CLASSIFICATION OF PRODUCTS AND UNITS USED

Shingles, siding and roll roofings are measured in "roof squares", defined as "sufficient material to cover 100 square feet when applied on the roof". Siding is usually packed in bundles containing half a roof square. Shingles are packed in bundles containing a third of a roof square and roll roofing is put up in rolls containing 108 square feet which, with the necessary allowance for joints, will also cover one roof square. Saturated felts and sheathings are sold by weight, the figures quoted in this report being in short tons of 2,000 pounds.

Smooth surfaced roll roofing, including cap sheets and base sheets, are so classed when surfaced with granules of less than 11 gauge. Mineral surfaced roll roofings include those surfaced with granules coarser than 11 gauge.

PRODUCING ESTABLISHMENTS

Following the tables in this report are lists of the names and addresses of the twelve establishments, whose principal products are asphalt roofing and which form the industrial group on which this report is based, and the eight additional establishments whose production of asphalt roofing is less than their output of other products.

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Table 1. - Principal Statistics, 1932-1933.

Items	Unit	1 9 3 2	1 9 3 3
Establishments	No.	11	12
Capital invested	\$	5,244,999	3,920,706
Employees on salaries	No.	174	206
Salaries paid	\$	398,218	399,089
Employees on wages	No.	298	311
Wages paid	\$	269,619	260,367
Fuel used	\$	71,839	74,905
Electricity purchased	Kw. h.	921,890	1,092,624
Electricity purchased	\$	19,911	24,208
Cost of materials	\$	1,398,969	1,616,075
Value of products	\$	3,677,994	3,586,834

Table 2. - Distribution of Establishments by Provinces, 1932-1933.

Provinces	1932	1933
	No.	No.
CANADA	11	12
New Brunswick	1	1
Quebec	4	5
Ontario	3	3
Manitoba	1	1
British Columbia	2	2

Table 3. - Capital Invested, 1932-1933.

Items	1 9 3 2	1 9 3 3
	\$	\$
TOTAL	5,244,999	3,920,706
Land, buildings, fixtures and machinery	2,065,417	1,533,663
Materials, stocks, etc., on hand	263,434	273,307
Finished products on hand	469,023	511,423
Cash, trading and operating accounts	2,447,125	1,602,313

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Table 4. - Employment, 1932-1933.

Classes of Employees	Total Number of Employees		Males		Females		Total Salaries and Wages	
	1932	1933	1932	1933	1932	1933	1932	1933
	No.	No.	No.	No.	No.	No.	\$	\$
TOTAL	472	517	445	471	27	46	667,837	659,456
Salaried employees	174	206	147	161	27	45	398,218	399,089
Employees on wages	298	311	298	310	-	1	269,619	260,367

Table 5. - Fuel Used, 1932-1933.

Kind of Fuel	Unit of Measure	Quantity		Value	
		1932	1933	1932	1933
				\$	\$
TOTAL	-	-	-	71,839	74,905
Bituminous coal, Canadian ...	Tons	2,661	2,466	15,644	14,063
" " Imported ...	"	5,531	5,560	31,333	31,780
Anthracite coal	"	1,519	1,590	5,418	5,058
Coke	"	17	-	132	-
Gasoline	Gals.	4,500	7,580	1,327	2,198
Kerosene	"	255	300	52	56
Fuel oil	"	202,460	302,837	13,047	17,684
Wood	Cords	697	990	2,483	3,520
Gas, manufactured	M cu. ft.	2,999	760	2,403	546

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Table 6. - Power Employed, 1932-1933.

Power Units	Number of Units		Total Horse Power	
	1932	1933	1932	1933
Steam engines and steam turbines	5	6	87	147
Gasoline, gas and oil engines	2	2	65	55
Hydraulic turbines or water wheels	2	7	350	404
Total Primary Power	9	15	502	606
Electric motors operated by purchased power	186	210	2,061	2,846
TOTAL POWER	195	225	2,563	3,452
Electric motors operated on power generated by the establishment	-	3	-	6
Total Electric Motors	186	213	2,061	2,852
Boilers	11	11	1,170	1,190

Table 7. - Materials Used, 1932-1933.

Materials	Unit of Measure	Quantity		Value	
		1932	1933	1932	1933
				\$	\$
TOTAL	-	-	-	1,398,969	1,616,075
Sulphate or kraft	Tons	387	438	33,704	38,286
Screenings	"	130	750	1,300	7,500
Wrapping paper	"	28	35	3,232	3,971
Rags, including cotton and flax, waste and sweepings	"	2,200	3,738	35,200	75,528
All other fibre	"	765	332	20,608	31,580
Felts and sheathings purchased	"	8,649	8,770	407,822	427,557
Asphalt	"	24,844	30,923	376,387	466,740
Tar	Gals.	293,853	386,464	29,640	32,807
Other saturating materials	-	-	-	2,050	6,476
Asbestos sand	Tons	130	1,064	2,693	31,481
China clay	-	-	-	-	499
Mica, ground	Tons	21	48	683	1,849
Silica sand	"	238	1,062	1,230	4,586
Talc	"	1,129	1,180	12,922	12,928
Other mineral surfacings	"	16,675	16,575	209,951	208,849
All other materials	-	-	-	236,925	236,232
Containers and other packing materials	-	-	-	24,622	29,206

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Table 8. - Products Manufactured, 1932-1933.

Products	Unit of Measure	Quantity		Value	
		1932	1933	1932	1933
				\$	\$
TOTAL	-	-	-	3,677,994	3,586,834
Asphalt saturated rag felt shingles	Squares	224,529	223,043	1,214,778	1,023,626
Asphalt saturated rag felt siding	"	32,707	31,327	201,244	180,375
Smooth surfaced prepared rag felt roofing	"	577,117	684,315	1,036,432	1,002,387
Mineral surfaced prepared rag felt roofing	"	202,397	233,123	417,122	490,120
Tar and asphalt saturated rag felts	Tons	3,223	4,929	219,895	299,173
Tar and asphalt saturated sheathings	"	3,021	2,587	177,347	183,141
All other materials, including liquid roof coatings, road materials, paints and cements, plastic car roofing, building and roofing paper, premoulded and asphalt products, plain sheathing insulators, waxed kraft and sheathings and custom work and repairs	-	-	-	411,176	408,012

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Table 9. - Tonnage production for the month of October, 1934,
and figures compiled on a similar basis for
previous periods for comparison.

NOTE: - These figures include the production of the twelve establishments which form the Roofing Paper Industry proper and also those of eight additional establishments classed in other industrial groups. These figures are not comparable with those given in Tables 1 to 8 as they are collected from a different source and on a different basis. They are given here merely to show the growth in quantity production of asphalt roofing from 1933 up to the latest available date.

	Asphalt shingles	Asphalt siding	Smooth surfaced roofing	Mineral surfaced roofing	Tar and asphalt felts	Tar and asphalt sheathing
	Squares	Squares	Squares	Squares	Tons	Tons
1934, October	25,117	4,888	75,515	18,940	1,360	608
1933, October	18,729	4,253	114,940	35,777	815	544
1934, September	27,179	6,966	76,689	19,192	1,099	460
1934, first 10 months	234,437	42,049	653,727	191,085	10,557	4,361
1933, first 10 months	201,299	27,138	658,829	208,543	5,759	4,527
1933, twelve months	221,834	31,418	742,244	234,202	7,016	5,796
1932, twelve months	246,537	34,328	570,174	213,006	7,067	5,402

PRODUCING ESTABLISHMENTS

The following twelve establishments were engaged wholly or chiefly in the production of asphalt roofing in Canada in 1933.

Barrett Company, Limited,	Montreal, Quebec, and Vancouver, B. C.
Bishop & Company, Limited,	Portneuf, Quebec.
Brantford-Carritte Company, Limited,	Coldbrook, N. B.
Brantford Roofing Company, Limited,	Brantford, Ontario.
Building Products Limited,	Montreal, Quebec, and Hamilton, Ontario.
Canada Paper Company, Limited,	Windsor Mills, Quebec.
Canada Roof Products, Limited,	Vancouver, B. C.
Canadian Johns-Manville Company, Limited,	Asbestos, Quebec.
Marshall-Wells, Limited,	Winnipeg, Manitoba.
Toronto Asphalt Roofing Manufacturing Company, Limited,	Mount Dennis (Toronto), Ontario.



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The following eight establishments produce asphalt roofing but they are not included in the Asphalt Roofing Industry under the Industrial Census as their production of this material is less than their production of other products.

Barrett Company, Limited,	Montreal, Quebec, Toronto, Ontario, Winnipeg, Manitoba, and Vancouver, B. C.
Dominion Tar & Chemical Company, Limited,	Montreal, Quebec, and Winnipeg, Manitoba.
Currie Products, Limited,	Hamilton, Ontario.
Sidney Roofing & Paper Company, Limited,	Victoria, B. C.

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