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 OTTAWA - CANADA D.B.S.

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ANNUAL INDUSTRY BULLETIN

CHEMICALS AND ALLIED PRODUCTS GROUP

THE HARDWOOD DISTILLATION INDUSTRY, 1938.

Production in the hardwood distillation industry in Canada was valued at \$682,269 in 1938 compared with \$749,084 in 1937, a decline of 8.9 per cent. The same five establishments were in operation as in the previous year; the Standard Chemical Co. Ltd. operated distillation plants at Fassett, P.Q., Donald, Ont., and South River, Ont., and a refinery at Montreal, P.Q., while the Canadian Industrial Alcohol Company Ltd. operated a distillation unit and refinery at Lindsay, Ont.

Production of refined methyl hydrate in 1938 amounted to 308,534 gallons valued at \$208,553; charcoal totalled 1,950,070 bushels worth \$269,806, and grey acetate of lime amounted to 4,173,705 pounds at \$46,906.

The number of employees in 1938 was 168 and payments in salaries and wages aggregated \$136,822. Capital employed was reported at \$1,559,583; fuel and electricity cost \$80,205, and materials for manufacturing cost \$373,763. The latter figure included 38,908 cords of hardwood worth \$241,648, interplant shipments of crude methyl hydrate for refining amounting to 258,147 gallons at \$123,910, and miscellaneous materials costing \$8,205.

Table 1 - PRINCIPAL STATISTICS OF THE HARDWOOD DISTILLATION INDUSTRY, 1929 - 1938.

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1929 .....	6	2,028,757	242	252,281	169,264	736,954	1,680,332
1930 .....	7	2,263,181	167	160,928	105,668	504,323	1,195,986
1931 .....	5	1,644,073	123	119,132	68,712	379,147	700,937
1932 .....	5	1,572,391	98	98,839	71,970	320,457	607,394
1933 .....	6	2,036,570	138	113,433	91,001	454,298	669,120
1934 .....	5	1,645,950	165	128,663	102,821	457,205	774,767
1935 .....	6	2,064,215	168	135,011	113,885	420,886	805,756
1936 .....	6	2,064,721	176	138,151	93,437	406,690	857,647
1937 .....	5	1,546,353	183	139,992	84,248	421,321	749,084
1938 .....	5	1,559,583	168	136,822	80,205	373,763	682,269
		+ 0.9	- 8.2	- 2.3	- 4.8	- 11.3	- 8.9

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Table 2 - EMPLOYEES, SALARIES AND WAGES, 1933 - 1938.

Years	Average Number of Employees				TOTAL	Salaries \$	Wages \$	TOTAL SALARIES and WAGES \$
	On Salaries		On Wages					
	Male	Female	Male	Female				
1933 .....	10	...	128	...	138	16,205	97,228	113,433
1934 .....	10	...	155	...	165	16,200	112,463	128,663
1935 .....	11	...	157	...	168	19,010	116,001	135,011
1936 .....	13	...	163	...	176	21,941	116,210	138,151
1937 .....	11	...	172	...	183	21,019	118,973	139,992
1938 .....	11	...	157	...	168	20,823	115,999	136,822

Table 3 - WAGE-EARNERS, BY MONTHS, 1937 and 1938.

Months	1937	1938	Months	1937	1938
	Male	Male		Male	Male
January .....	209	233	July .....	76	67
February .....	192	215	August .....	125	82
March .....	168	169	September .....	163	132
April .....	167	195	October .....	220	177
May .....	158	147	November .....	213	163
June .....	148	131	December .....	219	172
			Average .....	172	157

Table 4 - FUEL AND ELECTRICITY USED, 1937 and 1938.

Kinds	Unit of measure	1937		1938	
		Quantity	Cost at works \$	Quantity	Cost at works \$
		Bituminous coal - Canadian ....	short tons	1,743	11,700
Imported ....	short tons	5,657	34,879	2,362	16,977
Wood (for fuel only) .....	cord	12,711	28,234	12,040	26,117
Electricity purchased .....	K.W.H.	616,805	9,435	520,966	9,577
TOTAL .....	\$	...	84,248	...	80,205



Table 5 - POWER EQUIPMENT, 1937 and 1938.

Kinds	1937		1938	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines .....	4	127	4	127
Total Primary Equipment .....	4	127	4	127
Electric motors run by purchased power	22	267	20	262
TOTAL .....	26	394	24	389
Electric motors run by primary power in same plant .....	2	16	2	16
Stationary boilers .....	18	3,000	18	3,000

Table 6 - MATERIALS USED, 1937 and 1938.

Materials	Unit of measure	1937		1938	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
<b>Purchased Materials -</b>					
Hardwoods .....	cord	42,123	260,716	38,908	241,648
Lime .....	short ton	813	7,959	749	6,704
Other .....	\$	...	1,346	...	1,225
Containers .....	\$	...	1,662	...	276
Total Purchased ..	\$	...	271,683	...	249,853
<b>Interplant Shipments -</b>					
Crude methyl hydrate .	Imp. gal.	311,746	149,638	258,147	123,910
Total Interplant .	\$	...	149,638	...	123,910
<b>TOTAL-ALL MATERIALS</b>	\$	...	421,321	...	373,763

Table 7 - PRODUCTS MANUFACTURED, 1937 and 1938.

Products	Unit of measure	1937		1938	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
<b>Made for Sale -</b>					
Charcoal .....	bush.	2,119,540	275,540	1,950,070	269,806
Grey acetate of lime .	lb.	4,259,259	52,932	4,173,705	46,906
Crude methyl hydrate .	Imp. gal.	...	...	8,932	3,216
Refined methyl hydrate	Imp. gal.	293,539	229,787	308,534	208,553
Other products (a) ...	\$	...	28,794	...	18,653
Total Products for Sale .....	\$	...	587,053	...	547,134

(a) Includes columnian spirits, formaldehyde, etc.

Table 7 - PRODUCTS MANUFACTURED, 1937 and 1938 (Concluded)

Products	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Selling value at works	Quantity	Selling value at works
Interplant Shipments -					
Crude methyl hydrate ...	Imp. gal.	354,110	161,794	270,751	121,828
Other intermediates ...	\$		237		13,307
Total Interplant shipments .....	\$		162,031		135,135
TOTAL - ALL PRODUCTS ..	\$		749,084		682,269

Table 8 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1929 - 1938. (From all industries)

Years	In the wood distillation industry		In the charcoal-burning industry		T O T A L	
	Pounds	\$	Pounds	\$	Pounds	\$
1929 .....	40,257,792	600,127	8,036,109	74,120	48,293,901	674,247
1930 .....	29,665,536	401,363	9,105,560	78,505	38,771,096	479,868
1931 .....	24,560,656	331,287	11,191,952	92,718	35,752,608	424,005
1932 .....	20,438,928	255,487	11,521,569	70,595	31,960,497	326,082
1933 .....	29,118,096	232,339	8,037,771	41,227	37,155,867	273,566
1934 .....	28,917,008	271,006	7,953,926	48,248	36,870,934	319,254
1935 .....	32,209,664	307,585	8,231,286	50,661	40,440,950	358,246
1936 .....	31,865,200	296,103	9,439,786	58,069	41,304,936	354,172
1937 .....	33,912,640	275,540	14,697,504	101,645	48,610,144	377,185
1938 .....	31,201,120	269,806	NOT	YET	AVAILABLE	

Table 9 - IMPORTS INTO CANADA AND EXPORTS OF CHARCOAL, METHYL HYDRATE, ETC., 1937 and 1938

Items	Unit of measure	1 9 3 7		1 9 3 8	
		Imports	Exports	Imports	Exports
Methyl hydrate (wood alcohol) .....	proof gal.		15,483	757	8,658
	\$		5,754	243	3,555
Charcoal .....	tons	610		683	
	\$	13,981		14,130	
Acetate of lime .....	cwt.	80	34,415		41,208
	\$	18	48,906		44,910
Acetic and pyroligneous acid .....	gal.	2,561		3,679	
	\$	3,410		4,678	
Formaldehyde containing not more than 15% alcohol .....	\$	62,869		60,403	
Mixtures of methyl alcohol and other ingredients when imported by tanners for use exclusively as a solvent for dyes for the dyeing of leather in their own factories	proof gal.	6,301		5,801	
	\$	1,843		1,690	

LIST OF HARDWOOD DISTILLATION PLANTS IN CANADA, 1938.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1938</u>
Canadian Industrial Alcohol Company, Ltd.	Head Office - 910 Canada Cement Bldg., Montreal, P.Q. Plant - Lindsay, Ont.	Charcoal, grey acetate of lime, crude methyl hydrate, refined methyl hydrate, acetone.
Standard Chemical Co. Ltd.	Head Office - 200 Bay St., Toronto, Ont. Plants - Donald, Ont. South River, Ont. Fassett, P.Q., and Montreal, P.Q. (refinery)	Charcoal, grey acetate of lime, crude methyl hydrate, refined methyl hydrate, formaldehyde, columnian spirits.



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