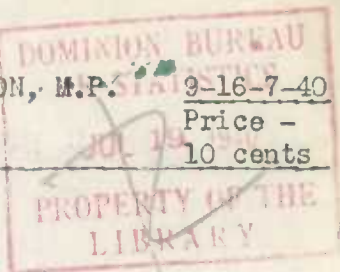


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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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ANNUAL INDUSTRY BULLETIN - CHEMICALS AND ALLIED PRODUCTS GROUP

THE HARDWOOD DISTILLATION INDUSTRY, 1939

The hardwood distillation industry in Canada showed improvement in 1939 when production was valued at \$737,673 compared with \$682,269 in 1938, an increase of 8.1 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.; and the Canadian Industrial Alcohol Company Ltd. operated a distillation unit and refinery at Lindsay, Ont.

Output of refined methyl hydrate in 1939 amounted to 335,093 gallons valued at \$248,156; charcoal totalled 2,171,242 bushels worth \$282,927 and grey acetate of lime amounted to 4,347,920 pounds at \$44,083.

The number of employees in 1939 was 179 and payments in salaries and wages amounted to \$146,541. Capital employed was reported at \$1,552,756, fuel and electricity cost \$89,220 and materials used for manufacturing purposes cost \$415,873. The latter figure included 42,845 cords of hardwood at \$261,408; interplant shipments of crude methyl hydrate for refining amounting to 301,032 gallons valued at \$144,495 and miscellaneous materials costing \$9,970.

Table 1 - PRINCIPAL STATISTICS OF THE HARDWOOD DISTILLATION INDUSTRY, 1929 - 1939

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	1,195,936
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	139,932	84,248	421,321	749,084
1938 .....	5	1,559,583	168	136,822	80,205	373,763	682,269
1939 .....	5	1,552,756	179	146,541	89,220	415,873	737,673
Per cent change 1939 from 1938..	...	- 0.4	+5.4	+ 7.1	+ 11.2	+ 11.3	+ 8.1

Table 2 - CAPITAL EMPLOYED, 1935 - 1939

Years	Present value of land, buildings, machinery, tools and other equipment	Inventory value of materials and and finished prod- ucts on hand and stocks in process	Total capital employed
	\$	\$	\$
1935 .....	1,863,659	200,556	2,064,215
1936 .....	1,349,889	214,832	2,064,721
1937 .....	1,368,789	177,564	1,546,353
1938 .....	1,359,526	200,057	1,559,583
1939 .....	1,350,263	202,493	1,552,756

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1935 - 1939

Years	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
					\$	\$	\$	
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
1939 .....	11	...	168	...	179	19,638	126,903	146,541

Table 4 - WAGE-EARNERS, BY MONTHS, 1938 and 1939 (On the last work-day of the month)

Months	1938		1939	
	Male	Male	Male	Male
January .....	233	224	July .....	67
February .....	215	209	August .....	82
March .....	169	202	September .....	132
April .....	195	159	October .....	177
May .....	147	128	November .....	163
June .....	131	96	December .....	172
			Average .....	157
				168

Table 5 - FUEL AND ELECTRICITY USED, 1938 and 1939

Kinds	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Cost at	Quantity	Cost at
			works		works
			\$		\$
Bituminous coal - Canadian ...	short tons	4,355	27,534	4,830	30,527
Imported ...	short tons	2,562	16,977	2,917	19,367
Wood (for fuel only) .....	cord	12,040	26,117	13,753	29,423
Electricity purchased .....	K. W. H.	520,966	9,577	517,615	9,903
TOTAL .....	\$	...	80,205	...	89,220



Table 6 -- POWER EQUIPMENT, 1938 and 1939

Kinds	1 9 3 8		1 9 3 9	
	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	20	262	20	262
TOTAL .....	24	389	24	389
Electric motors run by primary power in same plant .....	2	16	2	16
Stationary boilers .....	18	3,000	18	3,000

Table 7 - MATERIALS USED, 1938 and 1939

Materials	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Purchased materials -					
Hardwoods .....	cord	38,908	241,648	42,845	261,408
Lime .....	short ton	749	6,704	849	7,781
Sulphuric acid, 66°Be ....	lb.	...	...	8,340	292
Caustic soda .....	lb.	...	...	948	45
Other .....	\$	...	1,225	...	...
Containers .....	\$	...	276	...	1,852
Total Purchased .....	\$	...	249,853	...	271,378
Interplant Shipments -					
Crude methyl hydrate .....	Imp.gal.	258,147	123,910	301,032	144,495
Total Interplant .....	\$	...	123,910	...	144,495
TOTAL - ALL MATERIALS ...	\$	...	373,763	...	415,873

Table 8 - PRODUCTS MANUFACTURED, 1938 and 1939

Products	Unit of measure	1 9 3 8		1 9 3 9	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
<u>Made for sale (not including interplant shipments) -</u>					
Charcoal .....	bush.	1,950,070	269,806	2,171,242	282,927
Grey acetate of lime .....	lb.	4,173,705	46,906	4,347,920	44,083
Crude methyl hydrate .....	Imp.gal.	8,932	3,216	...	...
Refined methyl hydrate ...	Imp.gal.	308,534	208,553	335,093	248,156
Other products (a) .....	\$	...	18,653	...	19,014
Total products for sale..	\$	...	547,134	...	594,180
<u>Interplant shipments -</u>					
Crude methyl hydrate .....	Imp.gal.	270,751	121,828	313,876	143,493
Other intermediates .....	\$	...	13,307	...	...
Total interplant shipments	\$	...	135,135	...	143,493
TOTAL - ALL PRODUCTS ....	\$	...	682,269	...	737,673

(a) Includes columnian spirits and acetone.



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Table 9 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1929 - 1939 (From all industries)

Years	In the wood distillation industry		In the charcoal-burning industry		TOTAL	
	Pounds	\$	Pounds	\$	Pounds	\$
1929 .....	40,257,792	600,127	8,036,109	74,120	48,293,901	674,247
1930 .....	29,665,536	401,365	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	19,200,184	101,342	50,401,304	371,148
1939 .....	34,739,872	282,927	- n o t   a v a i l a b l e -			

Table 10 - IMPORTS INTO CANADA AND EXPORTS OF CHARCOAL, METHYL HYDRATE, ETC., 1938 and 1939

Items		1938		1939	
		Imports	Exports	Imports	Exports
Methyl hydrate (wood alcohol) ....	proof gal.	757	8,658	728	6,786
	\$	243	5,555	202	4,245
Charcoal .....	tons	683	...	697	...
	\$	14,130	...	14,750	...
Acetate of lime .....	cwt.	...	41,208	...	40,972
	\$	...	44,910	...	58,391
Acetic and pyroligneous acid .....	gal.	3,679	...	907	...
	\$	4,678	...	1,483	...
Formaldehyde containing not more than 15% alcohol .....	lb.	...	...	2,047,154	...
	\$	60,403	...	85,497	...
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.	5,801	...	3,134	...
	\$	1,690	...	947	...

LIST OF HARDWOOD DISTILLATION PLANTS IN CANADA, 1939

Names of Firms	Location of Plants	Main Products, 1939
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 - 67 Yonge 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, columnian spirits.