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

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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE HARDWOOD DISTILLATION INDUSTRY, 1944

The hardwood distillation industry in Canada reported a production in 1944 valued at \$1,528,022, representing a decrease of 2.3 per cent from the 1943 figure of \$1,722,828. Five plants were in operation, one less than in the previous year. The Standard Chemical Co. Ltd. operated distillation plants at Fassett, Que., Donald, Ont., and South River, Ont., and a refinery at Montreal, Que.; and the Canadian Industrial Alcohol Company Ltd. operated a distillation unit and refinery at Lindsay, Ont.

Output of refined methyl hydrate in 1944 amounted to 389,683 gallons valued at \$348,704; charcoal production totalled 29,274 tons worth \$724,265, and grey acetate of lime amounted to 10,349,950 pounds at \$282,813.

The number of employees in 1944 was 288 and payments in salaries and wages amounted to \$418,733. Fuel and electricity cost \$245,190, and materials used for manufacturing purposes cost \$915,300. The latter figure included 58,424 cords of hardwood at \$697,739, interplant shipments of crude methyl hydrate for refining amounting to 364,612 gallons valued at \$172,717, and miscellaneous materials costing \$44,844.

Table 1 - PRINCIPAL STATISTICS OF THE HARDWOOD DISTILLATION INDUSTRY, 1938-1944

Year	Number of plants	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
			\$	\$	\$	\$
1938	5	168	136,822	80,205	373,763	682,269
1939	5	179	146,541	89,220	415,873	737,673
1940	6	244	218,438	135,469	648,573	1,046,976
1941	6	287	295,652	215,464	893,729	1,865,436
1942	6	297	360,532	236,581	961,702	1,764,290
1943	6	297	373,457	278,976	961,590	1,722,828
1944	5	288	418,733	245,190	915,300	1,528,022

Hardwood Distillation

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Table 2 - EMPLOYEES, SALARIES AND WAGES, 1938-1944

Year	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
1938	11	...	157	...	168	20,823	115,999	136,822
1939	11	...	168	...	179	19,638	126,903	146,541
1940	14	...	230	...	244	24,035	194,403	218,438
1941	13	3	270	1	287	22,137	273,515	295,652
1942	16	4	277	...	297	35,057	325,475	360,532
1943	14	4	279	...	297	32,468	340,989	373,457
1944	10	5	273	...	288	30,101	388,632	418,733

Table 3 - WAGE-EARNERS, BY MONTHS, 1943 and 1944 (Number on pay-roll on the last work-day of the month)

Month	M a l e		Month	M a l e	
	1943	1944		1943	1944
January	312	276	August	269	266
February	294	290	September	266	261
March	295	299	October	257	263
April	288	289	November	267	265
May	290	270	December	274	272
June	268	262	AVERAGE	279	273
July	262	269			

Table 4 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1943 and 1944 (In one week of month of highest employment)

Hours Worked per Week	Number of Wage-Earners	
	1943	1944
30 hours or less	8	6
31-43 hours	21	9
44 hours .....	...	...
48 hours .....	...	273
49-50 hours	279	1
56-64 hours	6	8
65 hours and over	1	3
TOTAL	315	300
Total wages paid in selected week	\$ 8,317	8,434

Table 5 - FUEL AND ELECTRICITY USED, 1943 and 1944

Kind	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal--Imported	ton	25,947	233,662	23,247	207,467
Wood (for fuel only)	cord	8,447	30,447	7,093	24,264
Electricity purchased ...	K.W.H.	875,520	14,867	825,000	13,459
TOTAL .....	...	...	278,976	...	245,190

Hardwood Distillation

Table 6 - POWER EQUIPMENT, 1943 and 1944

	1 9 4 3		1 9 4 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	4	127	4	127
Electric motors run by purchased power	22	258	22	258
TOTAL	26	385	26	385
Electric motors run by primary power in same plant	2	16	2	16
Stationary boilers	24	3,750	18	3,000

Table 7 - MATERIALS USED, 1943 and 1944

Material	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Purchased materials -					
Hardwoods	cord	57,262	622,983	58,424	697,739
Lime	ton	1,883	19,632	1,904	18,870
Caustic soda	lb.	1,672	68	1,082	44
Other .....	...	...	17,985	...	101
Containers .....	...	...	30,160	...	25,829
Total Purchased .....	...	...	690,828	...	742,583
Interplant shipments -					
Grey acetate of lime, 80%	lb.	3,040,254	39,559	...	...
Crude methyl hydrate	Imp.gal.	429,842	206,589	364,612	172,717
Refined methyl hydrate ..	Imp.gal.	37,140	24,614	...	...
Total Interplant .....	...	...	270,762	...	172,717
TOTAL--ALL MATERIALS ...	...	...	961,590	...	915,300

Table 8 - PRODUCTS MANUFACTURED, 1943 and 1944

Product	Unit of measure	1 9 4 3		1 9 4 4	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
Made for sale (not including interplant shipments) -					
Charcoal	ton	29,515	731,647	29,274	724,265
Grey acetate of lime	lb.	8,216,268	217,521	10,349,950	282,813
Refined methyl hydrate	Imp.gal.	423,295	410,724	389,683	348,704
Other products (x) .....	...	...	130,957	...	5,678
Total Products for Sale ..	...	...	1,490,849	...	1,361,460
Interplant shipments -					
Grey acetate of lime	lb.	2,147,369	21,464	...	...
Crude methyl hydrate	Imp.gal.	413,117	185,901	370,138	166,562
Refined methyl hydrate	Imp.gal.	37,140	24,614	...	...
Total Interplant Shipments..	...	...	231,979	...	166,562
TOTAL--ALL PRODUCTS	1,722,828	...	1,528,022

(x) Includes columbian spirits, acetone, acetone oils and formaldehyde.



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Table 9 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1936-1943 (From all Industries)

Year	In the wood distillation industry		In the charcoal-burning industry		T O T A L	
	Pounds	\$	Pounds	\$	Pounds	\$
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	43,424,840	282,927	7,955,938	54,221	51,380,778	337,148
1940	60,457,220	496,588	7,729,630	59,378	68,186,850	555,966
1941	59,924,000	715,412	28,434,188	327,990	88,358,188	1,043,402
1942	58,970,000	701,836	24,686,588	204,565	83,656,588	906,401
1943	59,030,000	731,647	24,711,840	276,105	83,741,840	1,007,752

LIST OF PLANTS IN THE HARDWOOD DISTILLATION INDUSTRY, 1944

Standard Chemical Co. Ltd.

Head Office: 200 Bay Street, Toronto, Ontario.

Plants at Montreal, Que.

Fassett, Que.

Donald, Ont.

South River, Ont.

Canadian Industrial Alcohol Co. Ltd.

Head Office: 910 Canada Cement Bldg., Montreal, Que.

Plant at Lindsay, Ont.
