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Canada 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, 1943

The hardwood distillation industry in Canada reported a production in 1943 valued at \$1,722,828, representing a decrease of 2.3 per cent from the 1942 figure of \$1,764,290. Six plants were in operation, the same number as in the previous year. The Standard Chemical Co. Ltd. operated distillation plants at Fassett, Que., Longford, Ont., 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 1943 amounted to 423,295 gallons valued at \$410,724; charcoal production totalled 29,515 tons worth \$731,647, and grey acetate of lime amounted to 3,216,268 pounds at \$217,521.

The number of employees in 1943 was 297 and payments in salaries and wages amounted to \$373,457. Fuel and electricity cost \$278,976, and materials used for manufacturing purposes cost \$961,590. The latter figure included 57,262 cords of hardwood at \$622,983, interplant shipments of crude methyl hydrate for refining amounting to 423,842 gallons valued at \$206,583, and miscellaneous materials costing \$132,018.

Table 1 - PRINCIPAL STATISTICS OF THE HARDWOOD DISTILLATION INDUSTRY, 1937-1943

Year	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
		\$		\$	\$	\$	\$
1937	5	1,546,353	183	153,992	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
1940	6	1,900,303	244	218,438	135,469	648,573	1,046,976
1941	6	1,791,320	237	295,652	215,464	893,729	1,865,436
1942	6	2,113,753	297	360,532	236,581	961,702	1,764,290
1943	6	1,937,425	297	373,457	278,976	961,590	1,722,828

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Hardwood Distillation

Table 2 - CAPITAL EMPLOYED, 1937-1943 (On the last day of the year)

Year	Present value of land, buildings, machinery, tools and other equipment	Value of Inventories		Total (x) capital employed
		Materials and supplies on hand and stocks in process	Finished products on hand	
	\$	\$	\$	\$
1937	1,368,789	177,564		1,546,353
1938	1,359,520	200,057		1,559,583
1939	1,350,263	202,493		1,552,756
1940	1,579,942	320,361		1,900,303
1941	1,608,276	126,106	54,521	1,791,320
1942	1,606,291	377,121	117,065	2,113,753
1943	1,665,558	143,784	86,174	1,937,425

(x) Includes bills and accounts receivable, etc.

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1937-1943

Year	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
					\$	\$	\$	
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
1940	14	...	230	...	244	24,035	194,403	218,438
1941	13	3	270	1	287	22,137	275,515	295,652
1942	16	4	277	...	297	35,057	325,475	360,532
1943	14	4	279	...	297	32,468	340,989	373,457

Table 4 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (Number on pay-roll on the last work-day of the month)

Month	1942		1943		Month	1942		1943	
	Male	Female	Male	Female		Male	Female	Male	Female
January	289		312		July	283		262	
February	286		294		August	289		269	
March	286		295		September	291		266	
April	266		288		October	289		257	
May	281		290		November	300		267	
June	284		268		December	298		274	
					Average	277		279	

Table 5 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1942 and 1943 (In one week of month of highest employment)

Hours worked per week	Number of wage-earners		Hours worked per week	Number of wage-earners	
	1942	1943		1942	1943
30 hours or less..	4	8	56-64 hours	11	6
31-43 hours	2	21	65 hours and over.	1	1
44 hours .....	...	...	Total	298	315
48 hours	1	...	Total wages paid		
51-54 hours	270	279	in selected week. \$	7,630	8,317

(17 Aug '44)

Hardwood Distillation

Table 6 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	ton	6,102	52,051	...	...
Imported	ton	14,005	125,050	25,947	233,662
Wood (for fuel only)	cord	11,281	45,820	8,447	30,447
Other fuel .....	...	...	...	...	...
Electricity purchased	K. W. H.	764,367	13,660	875,520	14,867
TOTAL .....	...	...	236,581	...	278,976

Table 7 - POWER EQUIPMENT, 1942 and 1943

	1 9 4 2		1 9 4 3	
	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	360
Electric motors run by primary power in same plant	2	16	2	16
Stationary boilers	24	3,750	24	3,750

Table 8 - MATERIALS USED, 1942 and 1943

Material	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
Purchased materials -					
Hardwoods	cord	58,501	570,136	57,262	622,983
Lime	ton	1,977	19,168	1,883	19,632
Caustic soda	lb.	1,660	67	1,672	1,384
Other .....	...	...	33,800	...	16,663
Containers .....	...	...	10,227	...	30,160
Total Purchased .....	...	...	639,393	...	690,828
Interplant shipments -					
Grey acetate of lime, 80%	lb.	7,211,809	97,271	3,040,254	39,559
Crude methyl hydrate	Imp.gal.	409,906	196,785	429,342	206,589
Refined methyl hydrate ..	Imp.gal.	47,080	28,248	37,140	24,614
Total Interplant .....	...	...	322,304	...	270,762
TOTAL--ALL MATERIALS ..	...	...	961,702	...	961,590



Hardwood Distillation

Table 9 - PRODUCTS MANUFACTURED, 1942 and 1943

Product	Unit of measure	1 9 4 2		1 9 4 3	
		Quantity	Selling value at works \$	Quantity	Selling value at works \$
<u>Made for sale (not including interplant shipments)</u>					
Charcoal	ton	29,485	701,836	29,515	731,647
Grey acetate of lime	lb.	2,401,808	56,424	8,216,268	217,521
Refined methyl hydrate ..	Imp.gal.	432,319	410,703	423,295	410,724
Other products (x) .....	...	...	385,203	...	130,957
Total Products for Sale.	...	...	1,454,166	...	1,490,849
<u>Interplant shipments -</u>					
Grey acetate of lime ...	lb.	8,529,862	85,299	2,147,369	21,464
Crude methyl hydrate	Imp.gal.	440,629	198,083	413,117	185,901
Refined methyl hydrate ..	Imp.gal.	44,570	26,742	37,140	24,614
Total Interplant Shipments	...	...	310,124	...	231,979
TOTAL - ALL PRODUCTS ..	...	...	1,764,290	...	1,722,828

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

Table 10 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1936-1943 (From all industries)

Year	In the wood distillation industry		In the charcoal-burning industry		TOTAL	
	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	377,135
1938	31,201,120	269,806	19,200,184	101,342	50,401,304	371,148
1939	43,424,840	282,927	7,955,933	54,221	51,380,773	337,148
1940	60,457,220	496,588	7,729,630	59,378	68,186,850	555,966
1941	59,924,000	715,412	28,434,138	327,990	88,358,138	1,043,402
1942	58,970,000	701,836	24,686,538	204,565	83,656,538	906,401
1943	59,030,000	731,647	Not available		...	...

FIRMS IN THE HARDWOOD DISTILLATION INDUSTRY, 1943

Standard Chemical Co. Ltd.

Head Office - 200 Bay Street, Toronto, Ontario.

Plants at Montreal, Que.

Fassett, Que.

Donald, Ont.

South River, Ont.

Longford, Ont.

Canadian Industrial Alcohol Co. Ltd.

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

Plant at Lindsay, Ont.