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DEPARTMENT OF TRADE AND COMMERCE
LOWINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA CANADA D & 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 em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
the state of the s		\$		\$	\$	\$	\$
1929	6	2,028,757	242	252,281	169,264	736,954	1,680,332
1930	7	2,263,181	167	1.60,928	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	1.65	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	1.38,1.51	93,437	406,690	857,647
1.937	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
Per cent ch 1938 from	ange 1937	+ 0,9	- 8.2	2,3	4.8	11.3	8.9

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Table 2 - EMPLOYEES, SALARIES AND WAGES, 1933 - 1938. TOTAL Average Number of Employees On Salaries Salaries SALARIFS Years On Wages Wages TOTAL and WAGES Male Female Male Female ğ \$ \$ 16,205 97,228 113,433 1933 10 128 138 . . . 1934 165 16,200 112,463 128,663 10 155 1935 157 168 19,010 116,001 135,011 11 176 21,941 116,210 138,151 1936 13 163 1937 11 172 183 21,019 118,973 139,992 20,823 168 136,822 1938 11 157 115,999 Table 3 - WAGE-EARNERS, BY MONTHS, 1937 and 1938. 1937 1938 1937 1938 Months Months Male Male Male Male 209 233 76 67 January July February 192 215 August 125 82 168 169 September 163 132 March 195 October 177 April 167 220 May 158 147 November 213 163 131 219 June 148 December 172 172 Average 157 Table 4 - FUEL AND ELECTRICITY USED, 1937 and 1938. 1937 1938 Unit of Kinds Cost at Cost at Quantity Quantity measure works works \$ \$ Bituminous coal - Canadian short tons 1,743 11,700 4,355 27,534 Imported short tons 5,657 34,879 2,362 16,977

12,711

616,805

cord

K.W.H.

\$

28,234

9,435

84,248

Wood (for fuel only)

Electricity purchased

TOTAL

26,117

9,577

80,205

12,040

520,966

		1	9 3 7	1938			
Kinds		Number of units	Total rated horse power	Number of units	Total rate horse powe		
Steam engines and steam	turbines	4	127	4	127		
Total Primary Equip		4	127	4	127		
Electric motors run by pu	rchased power	22	267	20	26 2		
TOTAL		26	394	24	389		
Electric motors run by pr	rimary power						
in same plant		2	16	2	16		
Stationary boilers	18	3,000	18	3,000			
Table 6 - MATERIALS USED	, 1937 and 1938	٥					
	Unit of	1937		1	9 3 8		
Materials	measure	Quantity	Cost at works	Quantity	Cost a works		
Purchased Materials -			\$		\$		
Hardwoods	cord	42,123	260,716	38,908	241,64		
Lime	short ton	813	7,959	749	6,70		
Other	\$	000	1,346	0.00	1,22		
Containers	\$	• • •	1,662	000	27		
Total Purchased	\$	A 9 0	271,683	vvn	249,85		
Interplant Shipments -							
Crude methyl hydrate .	Imp. gal.	311,746	149,638	258,147	123,91		
Total Interplant .	\$	0 ^ 3	149,638	000	123,91		
TOTAL-ALL MATERIALS	\$	000	421,321		373,76		
rable 7 - PRODUCTS MANUFA	CTURED 1937 a	nd 1938					
THE PROPERTY OF THE PROPERTY O	TOTAL STATE OF THE		3 7	1938			
Products	Unit of		Selling		Selling		
1044005	measure	Quantity	value	Quantity	value		
			at works		at work		
Made for Sale -			*		\$		
Charcoal	bush.	2,119,540	275,540	1,950,070	269,80		
Grey acetate of lime .	lb.	4,259,259	52,932	4,173,70			
Crude methyl hydrate .	Imp. gal.		0 0 0	8,93			
Refined methyl hydrate	Imp. gal.	293,539	229,787	308,53			
Other products (a)	\$	• • u	28,794	004	70 05		
Total Products for Sale	\$		587,053	The latest the same of the sam	547,13		

⁽a) Includes columnian spirits, formaldehyde, etc.

Table 7 -	PRODUCTS	MANUFACTURED,	1.937	and	1938	(Concluded)
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				1937			1938		
Day head a		Unit of	(1	Se	lling		,	Selling	
Products		measure	Quanti	ty v	ralue	Qu	antity	value	
					works			at works	
resimonate de central	de nomedo modo nomento do esta de		EUROS IN N. IS THE R. S. C. CO.	engine sise number	\$	u ter minerijus u	ent alleventity, fu	\$	
Interplant Shi	ipments -								
Cmide methyl	hydrate	Imp. gal.	354,13	IG 18	3794	2	70,751	1.21,828	
Other interme	ediates	\$	5	2 12	237		2 P	13,307	
Total Interp	plant								
	0 00000000000000000000000000000000000	\$	0	1.6	32,031		e	135,135	
TOTAL ALL	PRODUCTS	\$	in the art of the state of	74	9,084			682,269	
Table 8 TOTA	AL PRODUCTION	OF CHARCO	DAL IN CANAD	A, 1929	~ 1938.	(Fro	m all ind	dustries)	
<u>നെക്കായത്തെ</u> എന്ന എന്നു വരു വര്	In the wood	et a dant 4 later to be	The state of the s	The second second					
Years		stry		ing ind			TOT	A L	
The state of the s	Pounds	\$	Pound	5	\$	P	ounds	\$	
1929	40,257,792	600,125	7 8,036,	1.09	74,120	48.	293,901	674,24	
1930	29,665,536	401. 363			78,505		771,096	479,868	
1931	24,560,656	331,287			92,718		752,608	424,00	
1932	20,438,928	255,487			70,595		960,497	326,08	
1933	29,118,096	232,339			41.,227		155,867	273,56	
1934	28,917,008	271,000	-		48,248		870,934	319,25	
		307,58						358,240	
1433	3/ /H9 hh/		3 8.201.	28 h	au ann	** L/ n	440 . 930	1110 A K.41	
	32,209,664				50,661		304 936		
1936	31,865,200	296,103	3 9,439,	786	58,069	43.,	304,936	354,17	
1936	31,865,200 33,912,640		9,439, 14,697,	786		43,		354,1.7	
1936 1937 1938	31,865,200 33,912,640 31,201,120	296,103 275,540 269,806	3 9,439, 0 14,697,	786 504] NOT	58,069 01,645 ¥ET	41 , 48 ₉	304,936 610,144 VAILABLE	354,172 377 ₉ 181	
1935 1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120	296,103 275,540 269,806	3 9,439, 0 14,697,	786 504 J NOT ARCOAL,	58,069 01,645 ¥ET	41 , 48 ₉	304,936 610,144 VAILABLE	354,17; 377,18!	
1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120	296,103 275,540 269,806	9,439, 0,14,697, XPORTS OF CH.	786 504 I NOT ARCOAL,	58,069 01,645 ¥ET	41 , 48 ₉	304,936 610,144 VAILABLE	354,172 377 ₉ 181	
1936 1937 1938	31,865,200 33,912,640 31,201,120	296,103 275,540 269,806	9,439, 0,14,697, XPORTS OF CH.	786 504 I NOT ARCOAL,	58,069 Ol,645 ¥ET MFTHYL 1 1 9 3 7	41, 48, A	304,936 610,144 VAILABLE	354,172 377,181	
1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,J03 275,540 269,800 ADA AND EX	9,439, 0,14,697, XPORTS OF CH. 1937 and 1	786 504 NOT ARCOAL,	58,069 Ol,645 YET MFTHYL H 1 9 3 7	41, 48, A	304,936 610,144 VAILABLE E, ETC.,	354,17; 377,18! 9 3 8 Export:	
1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,J03 275,540 269,800 ADA AND EX	9,439, 14,697, XPORTS OF CH 1937 and 1	786 504 NOT ARCOAL, 938	58,069 Ol,645 YET METHYL 1 1 9 3 7 S Expo	41, 48, A	304,936 610,144 VAILABLE E, ETC ,	354,17; 377,18! 9 3 8 Export:	
1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,JO3 275,540 269,800 (ADA AND E)	9,439, 14,697, XPORTS OF CH. 1937 and 1	786 504 NOT ARCOAL, 938	58,069 O],645 ¥ET MFTHYL I 1 9 3 7 S Expo	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE TE, ETC., 1 Imports 757	354,17; 377,18 9 3 8 Export: 8,65; 3,55	
1936 1937 1938 Table 9 IMPO	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,JO3 275,540 269,800 (ADA AND E)	9,439, 14,697, XPORTS OF CH 1937 and 1	786 504 NOT ARCOAL, 938	58,069 O],645 YET MFTHYL F 1 9 3 7 S Expo 15, 0	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC., 1 Imports 757 243 683	354,17; 377,18 9 3 8 Export: 8,65; 3,55	
1936 1937 1938 Table 9 IMPO Items Methyl hydrato	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,JO3 275,540 269,800 ADA AND EX	9,439, 14,697, XPORTS OF CH. 1937 and 1	786 504 NOT ARCOAL, 938	58,069 O],645 YET METHYL I 1 9 3 7 S Expo 15, 0	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC, 1 Imports 757 243 683 14,130	354,17; 377,18 9 3 8 Export: 8,65; 3,55	
1936 1937 1938 Table 9 IMPO Items Methyl hydrato	31,865,200 33,912,640 31,201,120 ORTS INTO CAN	296,JO3 275,540 269,800 ADA AND EX	9,439, 14,697, XPORTS OF CH. 1937 and 19 proof gal. tons	786 504 NOT ARCOAL, 938 Import	58,069 Ol,645 YET MFTHYL H 1 9 3 7 S Expo 15, 0 81 80 34	41, 48, AV DRAT	304,936 610,144 VAILABLE E, ETC., 1 Imports 757 243 683 14,130	354,17; 377,18 9 3 8 Export: 8,65; 3,55	
1936	31,865,200 33,912,640 31,201,120 ORTS INTO CAN e (wood alcoh	296,103 275,546 269,806 (ADA AND E)	9,439, 14,697, XPORTS OF CH. 1937 and 1	786 504 NOT ARCOAL, 938 Import	58,069 Ol,645 YET METHYL 1 1 9 3 7 S Expo 15, 0 81 80 34 8 48	41, 48, AV DRAT	304,936 610,144 VAILABLE E, ETC , 1 Imports 757 243 683 14,130	354,17; 377,18 9 3 8 Export: 8,65; 3,55; 41,20; 44,91;	
1936	31,865,200 33,912,640 31,201,120 ORTS INTO CAN e (wood alcoh	296,103 275,546 269,806 (ADA AND E)	9,439, 14,697, XPORTS OF CH. 1937 and 19 proof gal. tons	786 504 NOT ARCOAL, 938 Import	58,069 O],645 YET MFTHYL I 1 9 3 7 S Expo 15, 0 81 80 34 8 48	41, 48, AV DRAT	304,936 610,144 VAILABLE E, ETC., 1 Imports 757 243 683 14,130	354,17; 377,18: 9 3 8 Export: 8,65; 3,55: 41,20; 44,91;	
1936 1937 1938 Table 9 IMPO Items Methyl hydrate Charcoal Acetate of lin Acetic and py: Formaldehyde	31,865,200 33,912,640 31,201,120 ORTS INTO CAN e (wood alcohome	296,JO3 275,540 269,800 ADA AND EX	y 439, 14,697, 14,697, 24,697, 25,697, 26,697,	786 504 NOT ARCOAL, 938 Import 61 13,98	58,069 O],645 YET MFTHYL I 1 9 3 7 S Expo 15, 0 81 80 34 8 48	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC, 1 Imports 757 243 683 14,130 3,679 4,678	354,17; 377,18! 9 3 8 Export: 8,656; 3,55:	
1936	31,865,200 33,912,640 31,201,120 ORTS INTO CAN me roligneous accontaining no cohol	296,JO3 275,546 269,806 ADA AND EX	9,439, 14,697, XPORTS OF CH. 1937 and 1 proof gal. tons tons	786 504 NOT ARCOAL, 938 Import	58,069 O],645 YET MFTHYL I 1 9 3 7 S Expo 15, 0 81 80 34 8 48	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC., 1 Imports 757 243 683 14,130	354,17; 377,18: 9 3 8 Export: 8,65; 3,55; 41,20; 44,91;	
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1936 1937 1938 Table 9 IMPO Items Methyl hydrate Charcoal Acetic and py: Formaldehyde than 15% alce Mixtures of mo other ingred by tanners for	31,865,200 33,912,640 31,201,120 ORTS INTO CAN e (wood alcohome roligneous ac containing no ohol ethyl alcohol ients when im or use exclus r dyes for the	296,103 275,540 269,800 ADA AND EX ADA AND EX ADA and aported sively as a dyeing	y 439, 14,697, 14,697, 14,697, 14,697, 14,697, 15, 16, 1937 and 19	786 504 NOT ARCOAL, 938 Import 61 13,98 8 2,56 3,41 62,86	58,069 O],645 YET METHYL I 1 9 3 7 S Expo 15, 0 81 80 34 8 48 51	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC, 1 Imports 757 243 683 14,130 3,679 4,678 60,403	354,17; 377,18: 9 3 8 Export: 8,65; 3,55; 41,20; 44,91;	
1936 1937 1938 Table 9 IMPO Items Methyl hydrate Charcoal Acetate of lin Acetate and py: Formal dehyde than 15% alco Mixtures of mo other ingred by tanners for	31,865,200 33,912,640 31,201,120 ORTS INTO CAN e (wood alcohome roligneous ac containing no ohol ethyl alcohol ients when im or use exclus r dyes for the	296,103 275,540 269,800 ADA AND EX ADA AND EX ADA and aported sively as a dyeing	y 439, 14,697, 14,697, 24,697, 25,697, 26,697,	786 504 NOT ARCOAL, 938 Import 61 13,98	58,069 Ol,645 YET METHYL I 1 9 3 7 S Expo 15, 5.0 81 80 34 8 48 81 10	41, 48, A A A A A A A A A A A A A A A A A A A	304,936 610,144 VAILABLE E, ETC, 1 Imports 757 243 683 14,130 3,679 4,678	354,173 377,189 9 3 8 Exports 8,658 3,559 41,208 44,910	

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LIST OF HARDWOOD DISTILLATION PLANTS IN CANADA, 1938.

Names of Firms

Canadian Industrial Alcohol Company, Ltd.

Standard Chemical Co. Ltd.

Location of Plants

Head Office - 910 Canada Cement Bldg., Montreal, P.Q. Plant - Lindsay, Ont.

Head Office - 200 Bay St., Toronto, Ont. Plants - Donald, Ont. South River, Ont. Fassett, P.Q., and

Main Products, 1938

Charcoal, grey acetate of lime, crude methyl hydrate, refined methyl hydrate, acetone.

Charcoal, grey acetate of lime, crude methyl hydrate, refined methyl hydrate, formaldehyde, Montreal, P.Q. (refinery) columnian spirits.

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