

46-D-27

Wood distillation industry, Can.

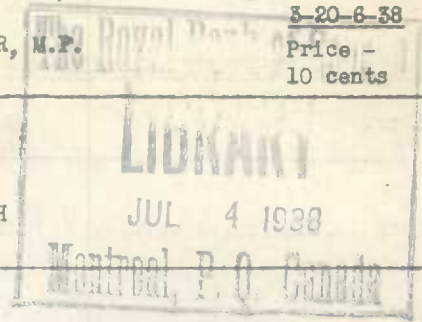
Historical File Copy

Published by Authority of the HON. W. D. EULER, M.P.  
Minister of Trade and Commerce.

5-20-6-38

Price -  
10 cents

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



Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)  
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.  
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY BULLETIN

CHEMICALS AND ALLIED PRODUCTS GROUP

THE HARDWOOD DISTILLATION INDUSTRY, 1937

Products made in Canada from the distillation of hardwoods were valued at \$749,084 in 1937 compared with \$857,647 in 1936, a decrease of 12.7 per cent. Four distillation plants and 1 refinery were in operation throughout the year.

The chief products of the distillation plants were charcoal, grey acetate of lime and crude methyl hydrate. Most of the crude methyl hydrate was shipped to Montreal for refining and for making columbian spirits and formaldehyde.

The number of employees in 1937 was 183 and payments in salaries and wages amounted to \$139,992. Capital employed was reported at \$1,546,353. Fuel and electricity cost \$84,248 and materials for manufacturing cost \$421,321 at the works. The latter figure included 42,123 cords of hardwood worth \$260,716, crude methyl hydrate for refining amounting to 311,746 gallons at a cost of \$149,638, and other materials valued at \$10,967.

Table 1 - PRINCIPAL STATISTICS OF THE HARDWOOD DISTILLATION INDUSTRY, 1929 - 1937.

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	113,385	420,866	805,756
1936 .....	6	2,064,721	176	139,151	93,437	406,690	857,647
1937 .....	5	1,546,353	183	139,992	84,248	421,321	749,084

Table 2 - EMPLOYEES, SALARIES AND WAGES, 1933 - 1937.

Years	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	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

Table 3 - WAGE-EARNERS, BY MONTHS, 1936 and 1937.

Months	1936	1937	Months	1936	1937
	Male	Male		Male	Male
January .....	209	209	July .....	101	76
February .....	205	192	August .....	80	125
March .....	160	168	September .....	149	163
April .....	178	167	October .....	175	220
May .....	170	158	November .....	185	213
June .....	141	148	December .....	213	219
			Average .....	163	172

Table 4 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1936 and 1937.

Regular Hours Worked per Week	% of Wage-Earners	
	1936	1937
40 hours or less .....	12.5	3.5
48 hours .....	87.5	87.4
60 hours or over .....	...	9.1

Table 5 - FUEL AND ELECTRICITY USED, 1936 and 1937.

Kinds	Unit of measure	1936		1937	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian .....	short tons	2,052	13,855	1,743	11,700
Imported .....	short tons	6,872	41,964	5,657	34,879
Wood (for fuel only) .....	cord	5,554	15,178	12,711	28,234
Other fuel .....	\$	...	12,414	...	...
Electricity purchased .....	K.W.H.	669,771	10,046	616,805	9,455
TOTAL .....	\$	...	93,437	...	84,248

Table 6 - POWER EQUIPMENT, 1936 and 1937.

Kinds	1 9 3 6		1 9 3 7	
	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 .....	23	321	22	267
TOTAL .....	27	448	26	394
Electric motors run by primary power in same plant .	2	16	2	16
Total Electric Motors .....	25	337	24	283
Boilers .....	24	3,650	10	1,000

Table 7 - MATERIALS USED, 1936 and 1937.

Materials	Unit of measure	1 9 3 6		1 9 3 7	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
<b>Purchased Materials -</b>					
Hardwoods .....	cord	47,050	245,267	42,123	260,716
Lime .....	short ton	993	9,749	813	7,959
Other .....	\$	...	552	...	1,346
Containers .....	\$	...	...	...	1,662
Total Purchased .....	\$	...	255,568	...	271,683
<b>Interplant Shipments -</b>					
Crude methyl hydrate .....	Imp. gal.	314,838	151,122	311,746	149,638
Total Interplant .....	\$	...	151,122	...	149,638
TOTAL - ALL MATERIALS .....	\$	...	406,690	...	421,321

Table 8 - PRODUCTS MANUFACTURED, 1936 and 1937.

Products	Unit of measure	1 9 3 6		1 9 3 7	
		Quantity	Selling value at works	Quantity	Selling value at works
			\$		\$
<b>Made for Sale -</b>					
Charcoal .....	bush.	1,991,575	296,103	2,119,540	275,540
Grey acetate of lime .....	lb.	4,892,291	73,423	4,259,259	52,932
Crude methyl hydrate .....	Imp. gal.	47,735	26,623	...	...
Refined methyl hydrate .....	Imp. gal.	302,650	233,041	293,539	229,787
Other products (a) .....	\$	...	64,853	...	28,794
Total Products for Sale .....	\$	...	694,045	...	587,053
<b>Interplant Shipments -</b>					
Crude methyl hydrate .....	Imp. gal.	302,054	135,954	354,110	161,794
Other intermediates .....	\$	...	27,648	...	237
Total Intermediates .....	\$	...	163,602	...	162,031
TOTAL - ALL PRODUCTS .....	\$	...	857,647	...	749,084

(a) Includes columnian spirits, formaldehyde, etc.





1010651471

Table 9 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1929 - 1937. (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	401,363	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	255,437	11,521,569	70,595	31,960,497	326,082
1933 .....	29,118,096	232,339	8,057,771	41,227	37,155,867	273,568
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	NOT	YET	AVAILABLE	

Table 10 - IMPORTS INTO CANADA AND EXPORTS OF CHARCOAL, METHYL HYDRATE, ETC., 1936 and 1937.

Items	1936		1937		
	Imports	Exports	Imports	Exports	
Methyl hydrate (wood alcohol) .....	gal.	...	7,950	...	15,483
	\$	...	2,356	...	5,754
Charcoal .....	tons	817	...	610	...
	\$	17,791	...	13,981	...
Acetate of lime .....	cwt.	...	63,550	80	34,415
	\$	...	83,620	18	48,906
Acetic and pyroligneous acid .....	gal.	1,838	...	2,561	...
	\$	2,305	...	3,410	...
Formaldehyde containing not more than 15% alcohol ....	\$	52,979	...	62,869	...
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.	6,401	...	6,301	...
	\$	2,134	...	1,843	...

LIST OF HARDWOOD DISTILLATION PLANTS IN CANADA, 1937.

Names of Firms	Location of Plants	Main Products, 1937
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, columbian spirits,