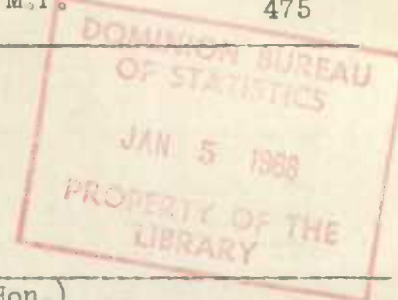


DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY  
MINING, METALLURGICAL AND CHEMICAL BRANCH  
OTTAWA - CANADA

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CHEMICALS AND ALLIED PRODUCTSTHE HARDWOOD DISTILLATION INDUSTRY, 1934.

Products made in Canada from the distillation of hardwoods were valued at \$774,767 in 1934 compared with \$669,120 in 1933. Only 4 carbonizing plants and 1 refinery were in operation. Charcoal, grey acetate of lime, wood alcohol and formaldehyde were the main products.

The number of employees in 1934 was 165 and payments in salaries and wages amounted to \$128,663. Capital employed was reported at \$1,645,950. Fuel and electricity cost \$102,821, and materials for manufacturing, mostly hardwoods, cost \$457,205 at the works.

Since only 2 companies operated in this field in 1934 the products are not itemized in detail in this report. The production of charcoal in this industry is shown at 28,917,008 pounds valued at \$271,006, and a further 7,953,926 pounds at \$48,248 were produced in plants which were engaged in wood-burning operations only; the total Canadian production of charcoal, therefore, amounted to 36,870,934 pounds valued at \$319,254.

Table 1 - PRINCIPAL STATISTICS, 1920 - 1934.

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1920 .....	13	4,005,022	585	678,785	2,097,925	4,899,704	2,801,799
1921 .....	10	2,693,924	272	326,921	1,110,220	2,201,388	1,091,168
1922 .....	11	3,241,389	291	287,812	932,276	1,892,911	960,635
1923 .....	8	2,790,149	316	328,168	976,174	2,726,998	1,750,824
1924 .....	11	2,762,563	365	381,232	1,055,303	2,272,484	1,217,181
1925 .....	9	2,264,447	306	234,996	846,287	1,970,430	1,124,143
1926 .....	8	2,193,622	252	211,388	826,125	1,712,169	886,044
1927 .....	10	1,889,004	288	271,088	863,717	1,571,176	707,459
1928 .....	6	1,870,040	214	241,363	824,322	1,630,609	806,287
1929 .....	6	2,028,757	242	252,281	736,954	1,680,332	943,378
1930 .....	7	2,263,181	167	160,928	504,323	1,195,986	691,663
1931 .....	5	1,644,073	123	119,132	379,147	700,937	321,790
1932 .....	5	1,572,391	98	98,839	320,457	607,394	286,937
1933 .....	6	2,036,570	138	113,433	454,298	669,120	214,822
1934 .....	5	1,645,950	165	128,663	457,205	774,767	317,562

Table 2 - EMPLOYEES, SALARIES AND WAGES, 1930 - 1934.

Years	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES AND WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
1930 .....	15	...	152	...	167	\$ 33,293	\$ 127,635	\$ 160,928
1931 .....	13	...	110	...	123	28,112	91,020	119,132
1932 .....	10	...	88	...	98	26,957	71,882	98,839
1933 .....	10	...	128	...	138	16,205	97,228	113,433
1934 .....	10	...	155	...	165	16,200	112,463	128,663

Table 3 - WAGE-EARNERS, BY MONTHS, 1933 and 1934.

Months	1933	1934	Months	1933	1934
	Male	Male		Male	Male
January .....	181	181	July .....	22	108
February .....	221	164	August .....	22	105
March .....	210	154	September .....	96	133
April .....	105	146	October .....	164	200
May .....	76	154	November .....	163	191
June .....	73	110	December .....	164	199
AVERAGE FOR YEAR.				128	155

Table 4 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1 9 3 3		1 9 3 4	
		Quantity		Quantity	
		Cost at works \$		Cost at works \$	
Bituminous coal - Canadian .....	short tons	...	...	2,975	20,316
Imported .....	short tons	9,932	56,706	7,772	47,336
Wood .....	cord	4,598	18,793	4,688	17,646
Other fuel .....	xx	...	5,316	...	6,254
Electricity purchased .....	K.W.H.	419,695	10,186	465,327	11,269
TOTAL .....	xxx	...	91,001	...	102,821

Table 5 - POWER EQUIPMENT, 1933 and 1934.

Kinds	1 9 3 3		1 9 3 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines .....	4	127	3	97
Total Primary Equipment .....	4	127	3	97
Electric motors run by purchased power .	17	231	23	321
Total Power Employed .....	21	358	26	418
Electric motors run by primary power in same plant .....	2	30	1	15
Total Electric Motors .....	19	261	24	336
Boilers .....	24	4,400	20	3,050

Table 6 - TOTAL PRODUCTION OF CHARCOAL IN CANADA, 1929 - 1934. (From all industries)

Years	In the wood distillation industry		In the charcoal-burning industry		T O T A L	
	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	255,487	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

Table 7 - IMPORTS INTO CANADA AND EXPORTS OF CHARCOAL, METHYL HYDRATE, ETC., 1933 and 1934.

Items	1 9 3 3		1 9 3 4	
	Imports	Exports	Imports	Exports
Methyl hydrate (wood alcohol) .....	gal.	624	gal.	3,369
	\$	688	\$	2,214
Charcoal .....	tons	1,026	tons	618
	\$	24,576	\$	14,092
Acetate of lime .....	cwt.	8,958	cwt.	30,754
	\$	20,252	\$	53,245
Acetic and pyroligneous acid .....	gal.	449	gal.	1,193
	\$	962	\$	1,124
		separately		separately
Formaldehyde containing not more than 15% alcohol .....	\$	67,340	\$	59,349
Methyl alcohol to be used in denaturing alcohol for use in the arts and industries and for fuel, light and power .....	proof gal.	...	proof gal.	11,490
	\$	...	\$	3,244
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.	6,705	proof gal.	6,197
	\$	2,114	\$	1,842

LIST OF HARDWOOD DISTILLATION PLANTS IN CANADA, 1934.

<u>Names of Firms</u>	<u>Location of Plants</u>	<u>Main Products, 1934.</u>
Canadian Industrial Alcohol Company, Ltd.	Head Office, 910 Canada Cement Bldg., Montreal, P.Q. Plant at Lindsay, Ont.	Charcoal, grey acetate of lime, crude methyl hydrate.
Standard Chemical Co. Ltd.	Head Office, 200 Bay St., Toronto, Ont. Plants at Longford, Ont.; South River, Ont; Fassett, P.Q., and Montreal, P.Q.	Charcoal, grey acetate of lime, crude methyl hydrate, refined methyl hydrate; formaldehyde.

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