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CENSUS OF INDUSTRY

REPORT  
on the  
LINSEED OIL INDUSTRY  
in  
CANADA  
1927

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Published by Authority of the Hon. James Malcolm, M.P.,  
Minister of Trade and Commerce

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## DEPARTMENT OF TRADE AND COMMERCE

## DOMINION BUREAU OF STATISTICS

## CENSUS OF INDUSTRY

OTTAWA, CANADA

Dominion Statistician: R. H. Coats, B.A., F.S.S., (Hon.), F.R.S.C.  
 Chief, Census of Industry: J. C. Macpherson.

REPORT ON THE LINSEED OIL INDUSTRY IN CANADA, 1927

Ottawa, February, 1929. The statistics of the Linseed Oil Industry in Canada for the calendar year 1927 are presented in this report. The number of individual plants operating during the year was 8 located by provinces as follows: Quebec 3, Ontario 2, Manitoba 2, and Alberta 1. In order that information relating to individual plants may not be disclosed the statistics by provinces are omitted and only those for the Dominion given throughout the tables of this report.

Principal Statistics

A comparative summary of the principal statistics of the industry is presented in Table 1, for the calendar years 1926 and 1927.

Table 1. Principal Statistics compared 1926 and 1927.

Items		1926	1927
Establishments reporting	No.	8	8
Capital Investment	\$	2,691,550	2,341,733
Employees on salaries -			
Male	No.	31	28
Female	No.	6	5
Total salaries	\$	84,369	87,659
Employees on wages -			
Male	No.	193	205
Female	No.	1	1
Total wages	\$	198,263	220,943
Cost of fuel and electricity	\$	64,465	65,905
Power equipment			
Units	No.	67	106
H.P. capacity	H.P.	1,532	1,850
Cost of materials	\$	5,364,364	4,840,168
Gross value of products	\$	6,486,924	5,839,314
Net value of products	\$	1,122,560	999,146

Production Statistics, 1927

The quantity and the selling value at the mill or factory of the various commodities manufactured in the Dominion during the calendar years 1926 and 1927 are shown in Table 2. Increases occurred in the quantity of Linseed Oil, boiled, refined special oils and oil cake meal, whilst linseed oil in the raw state and oil cake show decreases.

Products		1927	1926	+ Increase - Decrease
Linseed oil, raw	Imp. Gals.	3,112,520	3,239,916	- 127,396
Linseed oil, boiled	" "	1,062,985	968,663	+ 94,322
Oil cake	ton	5,988	11,907	- 5,919
Oil cake meal	"	35,349	30,099	+ 5,250
Special refined oils	Imp. Gals.	691,837	647,317	+ 44,520





Size of Establishments, 1927

In view of the tendency towards concentration in industrial enterprises, a series of tables has been prepared presenting in a threefold way the size of establishments in the industry measured by (a) capital investment, (b) gross value of production and (c) employment, all within certain specified groups or limitations for the calendar year 1926 and 1927. The tables further indicate the movement of capital, production and employment within the industry.

In 1926, the number of establishments reporting was 8, with a total capital investment of \$2,691,550, a total gross value of production of \$6,486,924 and a total employment of 231. Of the total number of establishments 6 had a capital investment of \$2,501,218 or 92.93 per cent of the total investment and an average investment of \$416,869 per establishment; 6 establishments had a gross value of production amounting to \$5,656,969 or 87.20 per cent of the total production and an average production of \$942,828 per establishment. In employment 6 establishments had 199 persons on their payroll or 86.15 per cent of the total number employed and an average employment of 33 per establishment.

In 1927, the number of establishments reporting was 8 with a total capital investment of \$2,341,733, a total gross value of production of \$5,839,314 and a total employment of 239. Of the total number of establishments 6 had a capital investment of \$2,167,154 or 92.54 per cent of the total investment with an average investment of \$361,192 per establishment. In gross value of production 6 establishments had a total production of \$5,190,050 or 88.88 per cent of the total for the industry and an average production of \$865,008 per establishment. In employment 7 establishments had a total payroll of 225 or 94.13 per cent of the total number employed and an average employment of 32 per establishment.

(a) Capital invested in establishments grouped according to value, 1926 and 1927

Groups of value of capital	1926			1927		
	Estab-lish-ments	Capital invested	Average capital	Estab-lish-ments	Capital invested	Average capital
		\$	\$		\$	\$
Under \$100,000	2	190,332	95,166	2	174,579	87,289
\$200,000 and over	6	2,501,218	416,869	6	2,167,154	361,192
TOTAL	8	2,691,550	336,443	8	2,341,733	292,716

(b) Gross value of production in establishments grouped according to value, 1926 and 1927

Groups of value of production	1926			1927		
	Estab-lish-ments	Gross Value of Production	Average Value of Production	Estab-lish-ments	Gross Value of Production	Average Value of Production
		\$	\$		\$	\$
\$200,000 to under \$500,000	2	229,955	414,977	2	649,264	324,632
\$500,00 and over	6	5,656,969	942,828	6	5,190,050	865,008
TOTAL	8	6,486,924	810,865	8	5,839,314	729,914

(c) Employees in establishments grouped by number, 1926 and 1927.

Groups of employees	1926			1927		
	Estab-lish-ments	Total Employees	Average Employees	Estab-lish-ments	Total Employees	Average Employees
	No.	No.	No.	No.	No.	No.
Under 20 employees	2	32	16	1	14	14
20 to under 50 employees	6	199	33	7	225	32
TOTAL	8	231	29	8	239	30



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# REPORT ON THE LINSEED OIL IN CANADA, 1927

## Production Statistics - Cont'd.

When values of production are compared decreases appear in raw linseed oil of (\$532,605) oil cake of (\$242,797) refined and special oils of (\$75,418). The only item of production showing an increase in value was oil cake meal amounting to \$253,773. The net decrease in production over 1926 amounted to \$647,610.

Table 2. Production, by Quantity and Value, 1927.

Classes of Products	Unit of Measure	Quantity	Selling Value at Mill \$
Linseed oil, raw	Imp. Gal.	3,112,520	2,535,805
Linseed oil, boiled	" "	1,062,985	868,224
Refined and special oils	" "	592,955	520,301
Hydrogenated oils	" "	98,882	88,994
Oil cake	Ton	5,988	258,669
Oil cake meal	"	35,349	1,567,321
Total value of products		-	5,839,314

## Capital Investment

The amount of capital invested in the linseed oil industry in Canada is shown in Table 3, under two heads:- Fixed capital which includes land buildings, machinery and tools and working capital which comprises materials and supplies on hand, stocks in process, finished products on hand and cash, trading and operating accounts etc. Fixed capital shows a decrease of \$83,124 when compared with 1926. Working capital also shows a decrease amounting to \$266,693 over the amount reported for the previous year.

Table 3. Capital invested, by Provinces, 1927.

Items of Capital	Canada	Quebec	Other Provinces
	\$	\$	\$
Fixed capital - Lands, building etc.) Machinery and tools )	1,338,866	675,730	663,136
Working capital - Materials and stocks on hand	689,040	377,970	311,070
Cash, trading and operating accounts, etc.	313,827	105,651	208,176
Total working capital	1,002,867	483,621	519,246
Grand Total of Capital	2,341,733	1,159,351	1,182,382

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# REPORT ON THE LINSEED OIL IN CANADA, 1927

## Employment Statistics

Statistics of employment for the calendar year 1927 are shown under the three following heads:- (a) Employees by sex and remuneration; (b) employees by months and (c) working time of plants and employees. Table 4 presents statistics of employment by classes, sex and remuneration by provinces. Compared with 1926 there was an increase in the total number employed in the industry of 8 and of \$25,970 in the payments for salaries and wages.

Table 4. Employees, Salaries and Wages, by Provinces, 1927.

Classes of employees by sex		Canada	Quebec	Other Provinces
Salaried employees -				
Male	No.	28	11	17
Female	No.	5	1	4
Total salaries	\$	87,659	45,034	42,625
Employees on wages, average No.-				
Male	No.	205	102	103
Female	No.	1	1	-
Total wages	\$	220,943	107,664	113,279
Total male employees	No.	233	113	120
Total female employees	No.	6	2	4
Total salaries and wages	\$	308,602	152,698	155,904

Employment by months:- The number of persons entered on the payroll during each month of the year is shown by sex in Table 5. The months of highest employment were May and June and those of lowest employment September and October. The average monthly employment was 206 of which males numbered 205 and females 1. This represents an increase in the monthly average employment of 8 when compared with 1926.

Table 5. Employment by Months, 1927.

Months	No. of Employees		Months	No. of Employees	
	Male	Female		Male	Female
January	212	1	July	198	1
February	216	1	August	192	1
March	207	1	September	182	1
April	201	1	October	183	1
May	236	1	November	197	1
June	224	1	December	211	1
Total employment during year				2,459	12
Average employment per month				205	1

Working time:- Table 6 shows the operating time of plants under three heads (a) full time, (b) part time and (c) idle, and also the average hours of labour worked by employees per day or shift and per week. The average operating time of plants in the industry whether on full or part time was 273.25 days and the average hours of labour were 9.89 per day and 58.37 per week.

Table 6. Working time of Plants and Employees, 1927.

Number of plants reporting	8	
	Total	Average
Days in operation		
on full time	1,936	242.00
on part time	250	31.25
idle	246	30.75
Working time of employees		
per day or shift	79	9.89
per week	467	58.37





Other Employment Statistics

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 7 for the Dominion as a whole. For the Dominion, the number working specified hours was distributed between the classes, the percentage working 10 hours being highest, with nearly 44 per cent of the total employment.

Table 7. - Hours worked by wage-earners in month of highest employment, 1927.

	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	58	47	109	34	23.39	18.95	43.95	13.71

The number of hours worked per day in the month of highest employment and the standard working hours per week are shown for the Dominion in Table 8. It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.41, whilst the average standard weekly hours worked out at 58.37 per plant.

Table 8. - Hours of Labour per day and per week, 1927.

	Total daily hours and number of wage-earners in month of highest employment			Standard working hours per week	
	Total Hours	Total Wage-earners	Average hours per day per wage-earner	Total	Average
	No.	No.	No.	No.	No.
CANADA	2,334	248	9.41	467	58.37





# REPORT ON THE LINSEED OIL IN CANADA, 1927.

## Fuel Consumption

The quantity and cost value of the fuel consumed by the industry during the year is shown in Table 9, by classes. The total cost of fuel was \$23,580 and of this total bituminous coal accounted for \$22,598 or nearly 96 per cent.

Table 9. Fuel used, by Classes, 1927.

Classes of fuel		Quantity	Cost Value at Mill or Factory
			\$
Bituminous coal	Ton	3,378	22,598
Wood	Cord	30	300
Gas, natural	m. c.ft.	3,197	682
Total cost of fuel		--	23,580

## Power Installation

The power installed in the industry in 1927 is shown by kind, number of units and horse-power according to manufacturers rating in Table 10. Primary power installation was represented by 4 units of internal combustion engines with a total rated h.p. capacity of 17. Secondary power was represented by 102 motors of a rated h.p. capacity of 1,833. The cost of electricity purchased during the year was \$42,325. The number of boilers installed was 11 with a rated h.p. capacity of 969.

Table 10. Power installed, 1927.

Kinds of Power	Number of Units	Horse-power according to manufacturers' rating
Internal combustion engines	4	17
Hydraulic turbines or water wheels	-	-
Total primary power	4	17
Electric motors operated by purchased power	102	1,833
Total power used in manufacturing	106	1,850

## Materials Used.

The various items of materials used in the industry is given by provinces in Table 11. for the calendar year, 1927.

Table 11. Materials used by provinces, 1927

Principal Materials	C A N A D A	
	Quantity Bushels	Cost Value \$
Flaxseed	2,863,655	4,574,374
Containers, etc.	-	150,011
All other materials	-	115,783
TOTAL	-	4,840,168





# REPORT ON THE LINSEED OIL IN CANADA, 1927.

## IMPORTS AND EXPORTS

Imports of flax seed, oils and oilcake and meal, for consumption in Canada are shown in Table 12. by quantities and values and by principal countries for the calendar year 1927. The total value of imports for consumption in Canada fell from \$1,644,167 in 1926 to \$741,885 in 1927, whilst exports<sup>also</sup> show a decrease from \$6,232,334 in 1926 to \$5,331,439 in 1927. According to the "Monthly Bulletin of Agricultural Statistics" the production of flax seed in Canada fell from 5,994,700 bushels valued at \$9,638,000 in 1926 to 4,884,600 bushels valued at \$7,562,000 in 1927, a decrease of 1,110,100 bushels and \$2,126,000 in value.

Table 12. Imports and Exports of Flaxseed, Linseed Oil and Oilcake and Meal, 1927.

Articles by Countries	Imports		Exports	
	Quantity Lb.	Value \$	Quantity Gal.	Value \$
Flax or linseed oil boiled or raw -				
United Kingdom	406,437	30,948	-	-
United States	311,638	38,560	3,944	3,592
Other Countries	20,322	2,118	1,909	1,804
Total	738,397	71,626	5,853	5,396
Flaxseed, n.o.p.	Bush.			
United Kingdom	1,032	4,858	-	-
United States	363	1,069	2,184,860	4,317,221
Argentina	351,954	644,309	-	-
Other Countries	991	2,311	-	-
Total	354,340	652,547	2,184,860	4,317,221
Linseed oilcake and meal-	Cwt.			
United Kingdom	-	-	16,800	36,009
United States	7,246	17,712	241,376	517,280
British West Indies	-	-	120,589	277,414
Netherlands	-	-	72,101	155,852
Other Countries	-	-	10,601	22,267
Total	7,246	17,712	461,467	1,008,822
Grand Total, Value of Imports and Exports	-	741,885	-	5,331,439

### Consumption of Flaxseed, Linseed Oil and Oilcake, 1927

The consumption of the commodities referred to in the foregoing table is shown in Table 13. In order to compare the statistics of linseed oil, the quantity imported has been converted into gallons at the rate of 9.35 lb. to the gallon of a stated specific gravity.

Table 13. Consumption of Flaxseed, Linseed Oil and Oilcake and Meal, 1927.

	Flaxseed		Linseed oil, boiled or raw		Oilcake and Meal	
	Quantity	Value	Quantity	Value	Quantity	Value
	Bush.	\$	Gallons	\$	Ton	\$
Production	4,884,600	7,562,000	4,175,505	3,404,029	41,337	1,825,990
Imports	354,340	652,547	78,973	71,626	7,246	17,712
Total	5,238,940	8,214,547	4,254,478	3,475,655	48,583	1,843,702
less Exports	2,184,860	4,317,221	5,853	5,396	23,073	1,008,822
Available for Consumption	3,054,080	3,897,326	4,248,625	3,470,259	25,510	834,880



APPENDIX

Firms engaged in the Linseed Oil Industry in Canada

1927

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Canada Linseed Oil Mills, Ltd.	1213 Notre Dame St. E. Montreal, Que.
Dominion Linseed Oil Co. Ltd.	31 Mill St. " "
Sherwin-Williams Co. of Canada, Ltd.	897 Centre St. " "
Dominion Linseed Oil Co. Ltd.	Baden, Ontario.
Canada Linseed Oil Mills, Ltd.	281 Sorauren Avenue, Toronto 3, Ont.
Dominion Linseed Oil Co. Ltd.	St. Boniface, Manitoba.
Sherwin-Williams Co. of Canada, Ltd,	110 Sutherland St. Winnipeg, Manitoba.
Alberta Linseed Oil Co. Ltd.	Medicine Hat, Alberta.





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