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**REPORT**  
**ON THE**  
**LINSEED & SOYBEAN OIL INDUSTRY**  
**IN**  
**CANADA**  
**1935**

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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
GENERAL MANUFACTURES BRANCH  
OTTAWA - CANADA

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THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

In 1935 there were eight plants in operation, located by provinces as follows: Quebec three, Ontario two, Manitoba two and Alberta one. These plants had a capital investment of \$2,228,003 in fixed and current assets; they furnished employment to 194 persons who were paid \$235,347 in salaries and wages. They also spent \$2,365,776 for materials used, and produced goods with a value at the factory of \$3,068,776, while the value added by manufacture amounted to \$649,845.

Linseed oil is the principal item of production, the output in 1935 amounting to 3,213,279 gallons valued at \$2,169,923. This is followed by oilcake meal with an output of 24,635 tons and a value of \$721,804. Detailed statistics of production for 1934 and 1935 are given in table 3.

Unlike most industries, the linseed oil industry expanded in 1930. However, considerable recession was experienced in 1931, the recession continuing in 1932 and 1933. In 1934 increases appeared in the selling value of products, cost of materials used and salaries and wages paid. The increase in the value of production was mostly due to a rise in the cost of flaxseed which rose from \$1.08 per bushel in 1933 to \$1.48 per bushel in 1934. The volume of production in 1935 was again considerably higher than the previous year. Compared with 1934 there was an increase of 373,083 gallons in the output of raw linseed oil and an increase of \$190,082 in its selling value. Increases were also recorded in the production of special linseed oil, oilcake meal and oilcake. Special linseed oil was 241,495 gallons, oilcake meal 4,419 tons and oilcake 1,603 tons higher. Production of boiled linseed oil was, however, lower, the reduction being 77,684 gallons in the volume and \$9,556 in the value. All told, there was an increase of 22.4 per cent in the volume of production.

Detailed statistics of production, capital invested, employment, materials used, imports and exports, etc., are given in the tables following.



THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 1. - Principal Statistics, 1921-1935.

Year	Estab- lish- ments	Capital Invested	Em- ployees	Salaries and Wages	Cost of Materials Used	Gross Value of Products <sup>x</sup>
	No.	\$	No.	\$	\$	\$
1921 .....	8	2,509,124	292	324,978	4,239,255	6,223,376
1922 .....	8	2,603,241	251	303,465	4,319,555	5,558,627
1923 .....	8	2,818,291	249	299,906	4,697,051	5,761,840
1924 .....	8	2,231,954	217	286,977	4,851,264	5,911,530
1925 .....	8	2,490,462	213	280,846	4,876,835	6,005,969
1926 .....	8	2,691,550	231	282,632	5,364,364	6,486,924
1927 .....	8	2,341,733	239	308,602	4,840,168	5,839,314
1928 .....	8	2,394,331	235	322,771	5,514,568	6,281,055
1929 .....	8	2,708,387	239	327,220	5,578,539	6,502,633
1930 .....	8	3,426,727	250	325,564	6,476,883	7,410,433
1931 .....	8	2,690,475	226	299,377	2,989,123	3,951,761
1932 .....	9	2,821,849	218	280,057	2,162,862	2,852,881
1933 .....	10	3,022,676	201	222,759	1,542,119	2,086,557
1934 .....	10	2,394,498	200	239,411	1,996,802	2,644,074
1935 .....	8	2,228,003	194	235,347	2,365,776	3,068,776

\*Selling value at the factory.

Table 2. - Principal Statistics Compared, 1934 and 1935.

Items		1934	1935	+ Increase - Decrease
Establishments reporting .....	No.	10	8	- 2
Capital invested .....	\$	2,394,498	2,228,003	- 166,495
Employees on salaries .....				
Male .....	No.	35	31	- 4
Female .....	No.	8	6	- 2
Total salaries .....	\$	104,620	83,134	- 21,486
Employees on wages .....				
Male .....	No.	157	157	-
Female .....	No.			
Total wages .....	\$	134,791	152,213	+ 17,422
Power equipment .....				
Units .....	No.	146	132	- 14
Horse-power capacity .....	H.P.	2,272	2,044	- 228
Cost of fuel and electricity .....	\$	52,591	53,155	+ 564
Cost of materials used .....	\$	1,996,802	2,365,776	+ 368,974
Gross value of products .....	\$	2,644,074	3,068,776	+ 424,702
Value added by manufacture .....	\$	594,681	649,845	+ 55,164

Value added by Manufacture = Gross value less cost of materials used and cost of fuel and electricity.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 3. - Production, by Quantity and Value.

Classes of Products	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Selling Value at Mill	Quantity	Selling Value at Mill
			\$		\$
Linseed oil, raw .....	Gallon	1,365,964	896,876	1,739,047	1,086,958
Linseed oil, boiled .....	"	666,782	457,664	589,098	448,108
Linseed oil, special .....	"	643,639	483,794	885,134	634,857
Oilcake .....	Ton	2,723	81,934	4,326	126,674
Oilcake meal .....	"	20,216	619,273	24,635	721,804
Linseed meal .....	"	175	13,519	216	17,755
All other products .....	"	-	91,014 <sup>x</sup>	-	32,620 <sup>x</sup>
TOTAL VALUE OF PRODUCTS .....			2,644,074		3,068,776

<sup>x</sup>Includes soybean oil and soybean cake.

Table 4. - Materials Used.

Principal Materials	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Cost Value at Mill	Quantity	Cost Value at Mill
			\$		\$
Flaxseed, Canadian .....	Bushels	(1,262,761	1,866,826	775,372	1,085,527
Flaxseed, imported .....	"	)		801,858	1,149,644
Press and filter cloth .....	"		12,660		15,520
Chemicals, (fullers' earth, sulphuric acid, caustic soda and potash) .....	Pounds	183,681	5,197	211,704	6,811
Containers, etc. ....	"		82,254		74,265
All other materials .....	"		29,865 <sup>x</sup>		34,009 <sup>x</sup>
TOTAL COST OF MATERIALS .....			1,996,802		2,365,776

<sup>x</sup>Includes cost of soybeans.

Size of Establishments

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. The tables when compared for a number of years indicate the movement of capital, production and employment within the industry.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935

In 1935 the number of establishments reporting was eight with a total capital investment of \$2,228,003, a total gross value of production of \$3,068,776 and a total employment of 194. Of the total number of establishments, three had a capital investment of \$1,204,595 or over 54 per cent of the total investment, with an average investment of \$401,531 per establishment. In gross value of production, four establishments had a total production of \$2,316,519 or over 75 per cent of the total for the industry and an average production per establishment of \$579,130. In employment, four establishments had a total payroll of 140 or over 72 per cent of the total number employed and an average employment of thirty-five persons per establishment.

Table 5(a). - Capital Invested in Establishments Grouped According to Value.

Groups of Value of Capital	1 9 3 4			1 9 3 5		
	Estab- lish- ments	Capital Invested	Average Capital per Estab- lishment	Estab- lish- ments	Capital Invested	Average Capital per Estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$300,000 ....	6	849,731	141,622	5	1,023,408	204,681
\$300,000 and over .	4	1,544,767	386,192	3	1,204,595	401,531
TOTAL AND AVERAGE	10	2,394,498	239,450	8	2,228,003	278,500

Table 5(b). - Gross Value of Production in Establishments Grouped According to Value.

Groups of Value of Production	1 9 3 4			1 9 3 5		
	Estab- lish- ments	Total Production	Average Production per Estab- lishment	Estab- lish- ments	Total Production	Average Production per Estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$250,000 ....	7	889,875	127,125	4	752,257	188,064
\$250,000 and over .	3	1,754,199	584,733	4	2,316,519	579,130
TOTAL AND AVERAGE	10	2,644,074	264,407	8	3,068,776	383,597

Table 5(c). - Employees in Establishments Grouped by Number.

Groups of Employees	1 9 3 4			1 9 3 5		
	Estab- lish- ments	Total Employees	Average Employees per Estab- lishment	Estab- lish- ments	Total Employees	Average Employees per Estab- lishment
	No.	No.	No.	No.	No.	No.
Under 20 employees.	6	71	12	4	54	13
20 employees and over .....	4	129	32	4	140	35
TOTAL AND AVERAGE	10	200	20	8	194	24



THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 6. - Capital Invested.

Items of Capital	1 9 3 4	1 9 3 5
	\$	\$
Fixed Capital -		
Present value of land, buildings, etc. ....	1,152,380	1,174,465
Working Capital -		
Inventory value of materials and supplies on hand, stocks in process and finished products on hand .....	935,033	754,236
Operating capital (cash, bills receivable, etc.).	307,085	299,302
TOTAL CAPITAL INVESTED .....	2,394,498	2,228,003

Table 7. - Employment of Wage-earners, by Months, 1935.

Months	Number of Wage-earners		Months	Number of Wage-earners	
	Male	Female		Male	Female
January .....	167	..	July .....	166	..
February .....	162	..	August .....	159	..
March .....	163	..	September .....	139	..
April .....	153	..	October .....	165	..
May .....	153	..	November .....	167	..
June .....	144	..	December .....	162	..
MONTHLY AVERAGE .....				157	..

Table 8. - Number of Wage-earners in Month of Highest Employment whose  
Regular Hours per Week in 1935 were:

Hours Worked per Week	Number of Employees	Hours Worked per Week	Number of Employees
40 hours or less .....	10	51-53 hours .....	7
41-43 hours .....	2	54 hours .....	2
44 hours .....	3	55 hours .....	..
45-47 hours .....	..	56-59 hours .....	9
48 hours .....	78	60 hours and over .....	67
49-50 hours .....	4		

The above table does not include overtime.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 9. Power Equipment, 1935.

Kinds of Power	Number of Units	Horse-power according to manufacturers' rating
Steam engines and turbines .....	7	46
Hydraulic turbines or water-wheels .....	3	150
Electric motors operated by purchased power ..	122	1,848
TOTAL POWER USED IN MANUFACTURING .....	132	2,044
Boilers .....	9	690

Table 10. Fuel and Electricity, 1935.

Kinds of Fuel Used	Unit of Measure	Quantity	Cost Value at Works \$
Bituminous coal .....	Ton	2,496	17,156
Gasoline .....	Gallon	540	155
Fuel oil .....	"	3,150	306
Other fuel .....	"		2,850
TOTAL COST OF FUEL .....			20,467
Cost of electricity purchased (including service charges) .....	Kw. H.	2,283,933	32,688
TOTAL COST OF FUEL AND ELECTRICITY		-	53,155

Imports and Exports

Imports and exports of flaxseed, oils, oilcake and meal are shown in tables 11 and 12 for the calendar years 1934 and 1935 by countries, quantities and values. The total value of the imports fell from \$1,364,254 in 1934 to \$894,062 in 1935, while the value of the exports rose from \$222,833 in 1934 to \$265,574 in 1935.



THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 11. - Imports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1934 and 1935.

Articles by Countries	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil, boiled or raw .. Total	Cwt.	102,069	422,109	16,584	77,053
United Kingdom .....	"	18,213	88,851	3,980	20,427
United States .....	"	1,146	13,981	1,225	14,113
Netherlands .....	"	82,666	319,077	11,350	42,246
Other Countries .....	"	44	200	29	267
Flaxseed .....	Bushels	789,367	886,277	632,844	654,304
United Kingdom .....	"	208	697	529	2,330
United States .....	"	205	512	139	347
Argentina .....	"	786,447	879,920	631,336	649,673
Other Countries .....	"	2,507	5,148	840	1,954
Linseed oilcake and linseed oilcake meal. Total	Cwt.	20	37	2,420	3,471
United States .....	"	20	37	2,420	3,471
Soybean cake and soybean meal .....	Cwt.	37,997	51,972	119,300	142,231
United Kingdom .....	"	9,004	14,099	1,732	2,675
United States .....	"	12,250	19,044	79,647	98,516
China .....	"	16,743	18,829	37,921	41,040
Soy Beans .....	Pounds	112,460	3,859 <sup>x</sup>	861,318	17,003
United Kingdom .....	"	4,000	50	11,200	180
United States .....	"	1,060	35	636,802	9,380
Japan .....	"	107,400	3,774	186,820	6,639
Other Countries .....	"	-	-	26,496	804
TOTAL VALUE OF IMPORTS .....		-	1,364,254	-	894,062

<sup>x</sup>Not collected prior to April, 1934.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1934 and 1935.

Articles by Countries	Unit of Measure	1934		1935	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed					
oil ..... Total	Gallons	1,179	1,119	17,942	12,166
United Kingdom .....	"	415	396	...	...
United States .....	"	15	13	14,801	9,240
Other Countries .....	"	749	710	3,141	2,926
Flaxseed for sowing . Total	Bushels	6,642	24,530	18,789	97,377
United Kingdom .....	"	6,564	24,285	18,786	97,360
United States .....	"	78	245	3	17
Flaxseed, n.o.p. .... Total	Bushels	178	426	2,462	1,792
United Kingdom .....	"	20	50	2,147	1,260
United States .....	"	...	...	160	170
Other Countries .....	"	158	376	155	362
Oilcake ..... Total	Cwt.	128,610	196,758	114,815	154,239
United Kingdom .....	"	67,427	102,690	42,601	58,039
United States .....	"	3,500	4,819	21,667	26,815
Barbados .....	"	1,250	2,187	2,887	3,705
Other British West					
Indies .....	"	5,355	8,577	8,268	11,659
Netherlands .....	"	35,606	53,680	31,519	43,218
British Guiana .....	"	4,418	6,858	5,856	7,870
Belgium .....	"	9,061	14,600	...	...
Other Countries .....	"	1,993	3,347	2,017	2,933
TOTAL VALUE					
OF EXPORTS .....			222,833		265,574



THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1935.

Firms engaged in the Linseed and Soybean Oil Industry in Canada, 1935.

QUEBEC

The Canada Linseed Oil Mills Limited,	2210 Notre Dame Street East, Montreal.
The Dominion Linseed Oil Company Limited,	837 Mill Street, Montreal.
The Sherwin-Williams Company of Canada Limited,	2875 Centre Street, Montreal.

ONTARIO

The Canada Linseed Oil Mills Limited,	40 Wabash Avenue, Toronto.
The Dominion Linseed Oil Company Limited,	Baden.

MANITOBA

The Dominion Linseed Oil Company Limited,	830 Archibald Street, St. Boniface.
The Sherwin-Williams Company of Canada Limited,	110 Sutherland Street, Winnipeg.

ALBERTA

The Alberta Linseed Oil Company Limited,	Medicine Hat.
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