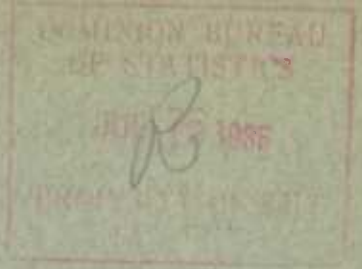


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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

ON THE

LINSEED & SOYBEAN OIL INDUSTRY

IN

CANADA

1934

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1935

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, 1934.

In 1934 there were ten plants in operation, located by provinces as follows: Quebec three, Ontario four, Manitoba two and Alberta one. These plants had a capital investment of \$2,394,498 in fixed and current assets; they furnished employment to 200 persons who were paid \$239,411 in salaries and wages. They also spent \$1,996,802 for materials used and produced goods with a value at the factory of \$2,644,074, leaving the value added by manufacture at \$647,272.

Linseed oil is the principal item of production, the output in 1934 amounting to 2,676,385 gallons valued at \$1,838,334. This is followed by oilcake meal with an output of 20,216 tons and a value of \$619,273. Detailed statistics of production for 1933 and 1934 are given in table 3.

Unlike most industries, the linseed oil industry expanded in 1930. In 1931, however, considerable recession was experienced, the recession continuing in 1932 and 1933. In 1934 increases appear in the selling value of products, cost of materials used and salaries and wages paid. The increase in the value of production is 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 1934 was somewhat lower than the previous year. Compared with 1933 there was a decrease of 42,881 gallons in the output of raw linseed oil but an increase of \$196,453 in its selling value. Production of boiled linseed oil was also lower, there being a reduction of 24,977 gallons and an increase of \$89,275 in value, while oilcake meal declined by 464 tons with an increase of \$83,649 in its value. Increases were, however, recorded in the production of special linseed oil and oilcakes which were higher by 24,957 gallons and 1,098 tons respectively. Detailed statistics for soybean products cannot be published as there are only two firms engaged in their 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, 1934.

Table 1. - Principal Statistics, 1921-1934.

Year	Estab- lish- ments	Capital Invested	Total Employees	Total Salaries and Wages	Cost of Materials Used	Gross Value of ^x Products
	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

^xSelling value at the factory.

Table 2. - Principal Statistics Compared, 1933 and 1934.

Items	1933	1934	+ Increase - Decrease
Establishments reporting	No. 10	10	-
Capital invested	\$ 3,022,676	2,394,498	- 628,178
Employees on salaries -			
Male	No. 38	35	- 3
Female	No. 6	8	+ 2
Total salaries	\$ 98,993	104,620	+ 5,627
Employees on wages -			
Male	No. 157	157	-
Female	No. -	-	-
Total wages	\$ 123,766	134,791	+ 11,025
Power equipment -			
Units	No. 147	146	- 1
Horse-power capacity	H.P. 2,303	2,272	- 31
Cost of fuel and electricity	\$ 54,077	52,591	- 1,486
Cost of materials used	\$ 1,542,119	1,996,802	+ 454,683
Gross value of products	\$ 2,086,557	2,644,074	+ 557,517
Value added by manufacture	\$ 544,438	647,272	+ 102,834

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

Table 3. - Production, by Quantity and Value, 1933 and 1934.

Classes of Products	Unit of Measure	1 9 3 3		1 9 3 4	
		Quantity	Selling Value	Quantity	Selling Value
			at Mill		at Mill
			\$		\$
Linseed oil, raw	Gallon	1,408,845	700,423	1,365,964	896,876
Linseed oil, boiled	"	691,759	368,389	666,782	457,664
Linseed oil, special	"	618,682	381,700	643,639	483,794
Oilcake	Ton	1,625	41,092	2,723	81,934
Oilcake meal	"	20,680	535,624	20,216	619,273
Linseed meal	"	177	10,258	175	13,519
All other products	-	-	49,071 ^x	-	91,014 ^x
TOTAL VALUE OF PRODUCTS.	-	-	2,086,557	-	2,644,074

^xIncludes soybean oil and soybean cake.

Table 4. - Materials Used, 1933 and 1934.

Principal Materials	Unit of Measure	1 9 3 3		1 9 3 4	
		Quantity	Cost Value	Quantity	Cost Value
			at Mill		at Mill
			\$		\$
Flaxseed	Bushels	1,322,898	1,426,357	1,262,761	1,866,826
Press and filter cloth	-	-	12,658	-	12,660
Chemicals (fullers' earth, sulphuric acid, caustic soda and potash)	Pounds	197,190	5,469	183,681	5,197
Containers, etc.	-	-	78,409	-	82,254
All other materials	-	-	19,226 ^x	-	29,865 ^x
TOTAL COST OF MATERIALS	-	-	1,542,119	-	1,996,802

^xIncludes cost of soybeans.

Size of Establishments

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. 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, 1934.

In 1934 the number of establishments reporting was ten with a total capital investment of \$2,394,498, a total gross value of production of \$2,644,074 and a total employment of 200. Of the total number of establishments, four had a capital investment of \$1,544,767 or almost 65 per cent of the total investment, with an average investment of \$386,192 per establishment. In gross value of production, three establishments had a total production of \$1,754,199 or over 66 per cent of the total for the industry and an average production per establishment of \$584,733. In employment, four establishments had a total payroll of 129 or almost 65 per cent of the total number employed and an average employment of thirty-two persons per establishment.

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

Groups of Value of Capital -	1 9 3 3			1 9 3 4		
	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	5	706,368	141,274	6	849,731	141,622
\$300,000 and over ...	5	2,316,308	463,262	4	1,544,767	386,192
TOTAL AND AVERAGE	10	3,022,676	302,268	10	2,394,498	239,450

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

Groups of Value of Production -	1 9 3 3			1 9 3 4		
	Estab- lish- ments	Gross Value of Production	Average Production per Estab- lishment	Estab- lish- ments	Gross Value of Production	Average Production per Estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$250,000	6	620,538	103,423	7	889,875	127,125
\$250,000 and over ...	4	1,466,019	366,505	3	1,754,199	584,733
TOTAL AND AVERAGE	10	2,086,557	208,656	10	2,644,074	264,407

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

Groups of Employees	1 9 3 3			1 9 3 4		
	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	77	13	6	71	12
20 employees and over	4	124	31	4	129	32
TOTAL AND AVERAGE	10	201	20	10	200	20

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

Table 6. - Capital Employed, 1933 and 1934.

Items of Capital	1 9 3 3	1 9 3 4
	\$	\$
Fixed Capital -		
(a) Present value of land, buildings, etc.	1,156,481	1,152,380
Working Capital -		
(b) Inventory value of materials and supplies on hand and stocks in process	505,594	244,234
(c) Inventory value of finished products on hand	575,856	690,799
(d) Operating capital (cash, bills receivable, etc.) ..	784,745	307,085
TOTAL CAPITAL EMPLOYED	3,022,676	2,394,498

Table 7. - Employment of Wage-earners, by Months, 1934.

Months	Number of Wage-earners		Months	Number of Wage-earners	
	Male	Female		Male	Female
January	143	-	July	172	-
February	150	-	August	141	-
March	172	-	September	151	-
April	160	-	October	165	-
May	150	-	November	159	-
June	162	-	December	161	-
MONTHLY AVERAGE				157	-

Table 8. - Number of Wage-earners in Month of Highest Employment whose Regular Hours per Week in 1934 were -

Hours Worked per Week	Number of Employees	Hours Worked per Week	Number of Employees
40 hours or less	34	51-53 hours	1
41-43 hours	5	54 hours	3
44 hours	-	55 hours	9
45-47 hours	2	56-59 hours	6
48 hours	70	60 hours	6
49-50 hours	3	Over 60 hours	59

The above table does not include overtime.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

Table 9. - Power Equipment, 1934.

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	136	2,076
TOTAL POWER USED IN MANUFACTURING	146	2,272
Boilers	10	765

Table 10. - Fuel and Electricity, 1934.

Kinds of Fuel Used	Unit of Measure	Quantity	Cost Value at Works \$
Bituminous coal	Ton	2,522	17,416
Gasoline	Gallon	450	125
Fuel oil	"	2,600	260
Wood	Cord	15	195
Gas, natural and artificial	M cu. ft.	2,959	1,230
Other fuel (steam purchased)	-	-	1,889
TOTAL COST OF FUEL	-	-	21,115
Cost of electricity purchased (including service charges)	Kw. H.	1,988,774	31,476
TOTAL COST OF FUEL AND ELECTRICITY	-	-	52,591

Imports and Exports

Imports and exports of flaxseed, oils, oilcake and meal are shown in tables 11 and 12 for the calendar years 1933 and 1934 by countries, quantities and values. The total value of the imports rose from \$339,147 in 1933 to \$1,364,254 in 1934, while the value of the exports dropped from \$875,063 in 1933 to \$222,833 in 1934.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

Table 11. - Imports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1933 and 1934.

Articles by Countries	Unit of Measure	1 9 3 3		1 9 3 4	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil, boiled or raw Total	Cwt.	16,036	90,345	102,069	422,109
United Kingdom	"	14,130	77,130	18,213	88,851
United States	"	668	8,108	1,146	13,981
Netherlands	"	1,238	5,107	82,666	319,077
Argentina	"	-	-	44	200
Flaxseed Total	Bushels	150,196	197,103	789,367	886,277
United Kingdom	"	133	169	208	697
United States	"	40	69	205	512
Argentina	"	149,633	195,957	786,447	879,920
France	"	368	876	698	2,201
Belgium	"	22	32	-	-
Netherlands	"	-	-	1,809	2,947
Linseed oilcake and linseed oilcake meal.. Total	Cwt.	2,073	2,485	20	37
United States	"	2,040	2,444	20	37
British South Africa ..	"	33	41	-	-
Soybean cake and soy- bean meal Total	Cwt.	28,992	49,214	37,997	51,972
United Kingdom	"	4,468	6,769	9,004	14,099
United States	"	9,552	12,858	12,250	19,044
China	"	14,972	29,587	16,743	18,829
Soy Beans Total	Pounds	Not Collected		112,460	3,859 ^x
United Kingdom	"	"	"	4,000	50
United States	"	"	"	1,060	35
Japan	"	"	"	107,400	3,774
TOTAL VALUE OF IMPORTS -		-	339,147	-	1,364,254

^xNot collected prior to April, 1934.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1933 and 1934.

Articles by Countries	Unit of Measure	1 9 3 3		1 9 3 4	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil. Total	Gallons	8,446	7,377	1,179	1,119
United Kingdom	"	775	646	415	396
United States	"	6,434	5,838	15	13
Newfoundland	"	938	667	547	544
St. Pierre and Miquelon	"	185	143	104	85
Other Countries	"	114	83	98	81
Flaxseed for sowing Total	Bushels	9,292	23,376	6,642	24,530
United Kingdom	"	9,272	23,336	6,564	24,285
United States	"	20	40	78	245
Flaxseed, n.o.p. Total	Bushels	605,633	672,359	178	426
United Kingdom	"	39,969	43,966	20	50
United States	"	565,664	628,393	-	-
Other Countries	"	-	-	158	376
Oilcake	Total Cwt.	121,955	171,951	128,610	196,758
United Kingdom	"	57,131	79,801	67,427	102,690
United States	"	6,500	9,069	3,500	4,819
Barbados	"	12,450	15,904	1,250	2,187
Trinidad and Tobago	"	2,468	3,035	-	-
Other British West Indies	"	10,456	15,147	5,355	8,577
Bermuda	"	736	1,165	860	1,391
Newfoundland	"	1,009	1,423	1,072	1,830
Netherlands	"	27,081	40,719	35,606	53,680
British Guiana	"	4,087	5,635	4,418	6,858
Belgium	"	-	-	9,061	14,600
Other Countries	"	37	53	61	126
TOTAL VALUE OF EXPORTS			875,063		222,833

Firms engaged in the Linseed and Soybean Oil Industry in Canada, 1934.

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 Co. of Canada Limited, 2875 Centre Street, Montreal.

ONTARIO

The Canada Linseed Oil Mills Limited, 40 Wabash Avenue, Toronto.
The Canadian Soyabeans Limited, Milton.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1934.

ONTARIO - (Concl'd.)

The Dominion Linseed Oil Company Limited,	Baden.
Soybean Oil & Meal Co-Operative Company of	
Canada Limited,	Chatham.

MANITOBA

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

ALBERTA

The Alberta Linseed Oil Company Limited,	Medicine Hat.
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