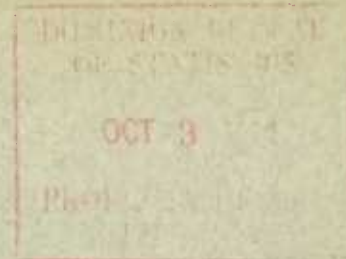


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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
ON THE
LINSEED & SOYBEAN OIL INDUSTRY
IN
CANADA
1932

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THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

In 1932 there were nine plants in operation, located by provinces as follows: Quebec three, Ontario three, Manitoba two and Alberta one. These plants had a capital investment of \$2,821,849 in fixed and working capital; they furnished employment to 218 persons who were paid \$280,057 in salaries and wages. They also spent \$2,162,862 for materials and produced goods valued at the factory at \$2,852,881, leaving the value added by manufacture at \$690,019.

On account of the addition of one firm making soybean oil and soybean oil meal, the industry has been named in 1932 the "linseed and soybean oil industry".

Linseed oil, raw and boiled, is the principal item of production, the output in 1932 amounting to 2,876,960 gallons valued at \$1,507,534. This is followed by oilcake meal with an output of 29,290 tons valued at \$767,269. Detailed statistics of production for 1931 and 1932 are given in table 3.

Unlike most industries, the linseed oil industry expanded in 1930. In 1931, however, considerable recession was experienced, this recession continuing in 1932. As compared with the previous year, the number of establishments in 1932 was increased by one with an increase in the capital investment of \$131,374. In spite of this the number of employees decreased by eight with a drop of \$19,320 in the salaries and wages paid, while the value of production was \$1,098,880 or 27.8 per cent lower. The value added by manufacture also dropped from \$962,638 in 1931 to \$690,019 in 1932.

The great decrease in the value of production was due to a decrease in both the volume and value of the products made. Compared with 1931 there was a decrease of 416,658 gallons in the output of raw linseed oil; 144,065 gallons in boiled linseed oil; 31,701 gallons in special linseed oil and 3,161 tons in oilcake meal; while the output of oilcake was 345 tons higher. Decreases were also reported in the selling value of finished products. The selling value at the factory of raw linseed oil, for example, dropped from 66.2 cents per gallon in 1931 to 51.7 cents in 1932, oilcake meal from \$30.56 per ton to \$26.20 per ton and so forth right along the line.

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

Table 1. - Principal Statistics, 1921-1932.

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

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

Table 1. Principal Statistics, 1921-1932. - (Concl'd.)

Year	Estab- lish- ments	Capital Invested	Total Employees	Total Salaries and Wages	Cost of Materials Used	Gross Value of Products
	No.	\$	No.	\$	\$	\$
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

Table 2. Principal Statistics Compared, 1931 and 1932.

Items		1931	1932	✓ Increase - Decrease
Establishments reporting	No.	8	9	✓ 1
Capital investment	\$	2,690,475	2,821,849	✓ 131,374
Employees on salaries -				
Male	No.	38	38	-
Female	No.	4	5	✓ 1
Total salaries	\$	107,809	101,222	- 6,587
Employees on wages -				
Male	No.	183	175	- 8
Female	No.	1	-	- 1
Total wages	\$	191,568	178,835	- 12,733
Cost of fuel and electricity	\$	60,078	56,604	- 3,474
Power equipment				
Units	No.	116	132	✓ 16
Horse-power capacity	H.P.	1,930	2,154	✓ 224
Cost of materials	\$	2,989,123	2,162,862	- 826,261
Gross value of products	\$	3,951,761	2,852,881	- 1,098,880
Value added by manufacture	\$	962,638	690,019	- 272,619

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

Table 3. -- Production, by Quantity and Value, 1931 and 1932.

Classes of Products	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Selling Value at Mill	Quantity	Selling Value at Mill
			\$		\$
Linseed oil, raw	Gal.	4,150 2,567,618	1,700,823	2,150,960	1,111,423
Linseed oil, boiled	"	870,065	563,550	726,000	396,109
Linseed oil, special	"	712,124	552,558	680,423	428,286
Oilcake	Ton	4,171	116,328	4,516	104,869
Oilcake meal	"	32,451	991,602	29,290	767,269
Linseed meal	"	100	7,425	163	9,224
All other products	"		19,475		35,699 ^x
Total Value of Products			3,951,761		2,852,881

* Includes soybean oil and soybean oil meal.

Table 4. -- Materials Used, 1931 and 1932.

Principal Materials	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Cost Value at Mill	Quantity	Cost Value at Mill
			\$		\$
Flaxseed	Bushels	1,938,124	2,821,981	1,861,664	2,068,676
Press cloth	Pounds		(x)	27,840	15,568
Chemicals	"		(x)	179,993	4,711
Containers, etc.	"		128,242		61,667
All other materials	"		38,900		12,240
Total			2,989,123		2,162,862

(x) Included under "all other materials" in 1931.

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.

In 1932, the number of establishments reporting was nine with a total capital investment of \$2,821,849, a total gross value of production of \$2,852,881 and a total employment of 218. Of the total number of establishments six had a capital investment of \$2,459,739 or 87 per cent of the total investment with an average investment of \$409,956 per establishment. In gross value of production, three establishments had a total production of \$1,746,510 or 61 per cent of the total for the industry and an average production per establishment of \$582,170. In employment four establishments had

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

a total payroll of 151 or 70 per cent of the total number employed and an average employment of thirty-eight persons per establishment.

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

Groups of Value of Capital	1 9 3 1			1 9 3 2		
	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	3	667,202	222,401	3	362,110	120,703
\$300,000 and over .	5	2,023,273	404,655	6	2,459,739	409,956
Total	8	2,690,475	336,309	9	2,821,849	313,539

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

Groups of Value of Production	1 9 3 1			1 9 3 2		
	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 \$350,000	3	694,455	231,485	6	1,106,371	184,395
\$350,000 and over .	5	3,257,306	651,461	3	1,746,510	582,170
Total	8	3,951,761	493,970	9	2,852,881	316,987

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

Groups of Employees	1 9 3 1			1 9 3 2		
	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 30 employees	4	71	18	5	67	13
30 to under 60 employees	4	155	39	4	151	38
Total	8	226	28	9	218	24

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Table 6. - Capital Employed, 1931 and 1932.

Items of Capital	1 9 3 1	1 9 3 2
	\$	\$
Fixed Capital ..		
(a) Present value of land, buildings, etc.	1,563,160	1,617,759
Working Capital ..		
(b) Inventory value of materials and supplies on hand and stocks in process	238,273	323,986
(c) Inventory value of finished products on hand ...	401,371	513,793
(d) Operating capital (cash, bills receivable, etc.)	487,671	366,311
Total Capital	2,690,475	2,821,849

Table 7. - Employment of Wage-earners by Months, 1932.

Months	Number of Wage-earners		Months	Number of Wage-earners	
	Male	Female		Male	Female
January	194	-	July	175	-
February	190	-	August	142	-
March	166	-	September	168	-
April	152	-	October	161	-
May	171	-	November	193	-
June	173	-	December	201	-
Monthly Average				175	-

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

Hours Worked per Week	Number of Employees	Hours Worked per Week	Number of Employees
40 hours or less	-	51-53 hours	-
41-43 hours	-	54 hours	-
44 hours	-	55 hours	-
45-47 hours	-	56-59 hours	3
48 hours	82	60 hours	32
49-50 hours	37	Over 60 hours	65

The above table does not include overtime.

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Table 9. -- Power Equipment, 1932.

Kinds of Power	Number of Units	Horse-power according to manufacturers' rating
Steam engines and turbines	7	46
Hydraulic turbines or water wheels	3	100
Electric motors operated by purchased power ..	122	2,008
Total Power Used in Manufacturing	132	2,154
Boilers	11	730

Table 10. -- Fuel and Electricity Used, 1932.

Kinds of Fuel Used	Unit of Measure	Quantity	Cost Value at Works
			\$
Bituminous coal	Ton	3,145	17,501
Gasoline	Gal.	812	207
Fuel oil	"	915	94
Gas, natural	M cu. ft.	4,558	814
Wood	Cord	50	175
Total Cost of Fuel			18,791
Cost of electricity purchased (including service charges)	K.W.H.	2,907,466	37,813

Imports and Exports.

Imports of flaxseed, oils and oilcake and meal for consumption in Canada are shown in table 11 for the calendar years 1931 and 1932 by countries, quantities and values. The total value of the imports dropped from \$453,846 in 1931 to \$428,844 in 1932, while the value of the exports (shown in table 12) also dropped from \$1,551,798 in 1931 to \$581,097 in 1932.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

Table 11. - Imports of Products Made or Used by the Linseed and Soybean Oil Industry, 1931 and 1932.

Articles by Countries	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil,					
boiled or raw Total	Cwt.	10,475	59,549	8,057	36,998
United Kingdom	"	7,938	34,810	7,025	26,560
United States	"	2,482	24,383	972	9,994
Netherlands	"	50	316	-	-
Other Countries	"	5	40	60	444
Flaxseed	Bush.	346,395	326,381	455,268	338,969
United Kingdom	"	264	931	491	1,552
United States	"	1,938	3,537	1	4
Argentina	"	331,074	308,202	454,309	336,374
France	"	214	369	467	1,039
Other Countries	"	12,905	13,342	-	-
Linseed oilcake and linseed					
oilcake meal Total	Cwt.	3,100	3,673	622	581
United States	"	1,400	1,861	62	79
Australia	"	1,500	1,598	560	502
Japan	"	200	214	-	-
Other Countries	"	-	-	-	-
Soybeans, soybean cake and					
meal Total	Cwt.	50,085	64,243	38,593	52,296
United Kingdom	"	3,659	5,546	3,854	6,518
United States	"	11,313	15,484	15,549	17,401
China	"	33,463	41,396	19,190	28,377
Japan	"	1,650	1,817	-	-
Total Value of Imports			453,846		428,844

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry, 1931 and 1932.

Articles by Countries	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed					
oil Total	Gal.	1,559	1,103	1,288	793
United Kingdom	"	-	-	40	40
United States	"	125	114	40	38
Newfoundland	"	436	316	49	34
St. Pierre and Miquelon	"	727	485	847	487
Other Countries	"	271	188	312	194

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1932.

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry, 1931 and 1932. - (Concl'd.)

Articles by Countries	Unit of Measure	1 9 3 1		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed for sowing Total	Bush.	2,868	9,249	4,872	9,686
United Kingdom	"	2,700	8,700	4,872	9,686
United States	"	78	294	-	-
Other Countries	"	90	255	-	-
Flaxseed, n.o.p. Total	Bush.	1,041,752	1,142,243	362,578	269,688
United Kingdom	"	-	-	27,957	14,259
United States	"	1,041,752	1,142,243	334,621	255,429
Oilcake	Cwt.	298,170	399,203	233,071	300,930
United Kingdom	"	44,340	58,530	78,051	101,397
United States	"	43,950	52,432	45,300	58,861
Barbados	"	52,900	74,729	39,427	51,395
Trinidad and Tobago	"	31,651	45,354	9,052	11,024
Other British West Indies	"	7,483	10,787	8,292	10,661
Bermuda	"	822	1,320	848	1,368
Newfoundland	"	1,371	2,121	1,015	1,365
Netherlands	"	99,482	130,498	46,045	58,286
British Guiana	"	3,756	5,254	5,039	6,563
Belgium	"	12,415	18,178	-	-
Other Countries	"	-	-	2	10
Total Value of Exports.	-	-	1,551,798	-	581,097

Consumption of Flaxseed, Linseed Oil and Oilcake, 1932.

The consumption of the commodities referred to in the foregoing tables 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. The production of flaxseed is given as the crop of 1932.

According to the "Monthly Bulletin of Agricultural Statistics", the production of flaxseed in Canada rose from 2,060,400 bushels valued at \$4,898,000 in 1929 to 5,069,000 bushels valued at \$4,741,000 in 1930, and dropped to 2,565,000 bushels valued at \$2,025,000 in 1931, and to 2,446,000 bushels valued at \$1,282,000 in 1932.

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Table 13. - Consumption of Flaxseed, Linseed Oil and Oilcake and Meal, 1932.

	Flaxseed		Linseed Oil, Raw, Boiled, Etc.		Oilcake and Oilcake Meal	
	Quantity	Value	Quantity	Value	Quantity	Value
	Bushels	\$	Gallons	\$	Tons	\$
Production	2,446,000	1,282,000	3,557,383	1,935,820	33,806	872,138
Imports	455,268	338,969	86,171	36,998	31	581
Total	2,901,268	1,620,969	3,643,554	1,972,818	33,837	872,719
Less Exports	367,450	279,374	1,288	793	11,653	300,930
Available for Consumption	2,533,818	1,341,595	3,642,266	1,972,025	22,184	571,789

A P P E N D I X.

Firms Engaged in the Linseed and Soybean Oil Industry in Canada, 1932.

The Canada Linseed Oil Mills Limited,	2210 Notre Dame St. East, Montreal, Quebec.
The Dominion Linseed Oil Company Limited,	837 Mill Street, Montreal, Quebec.
The Sherwin-Williams Co. of Canada Ltd.,	2875 Centre Street, Montreal, Quebec.
The Dominion Linseed Oil Company Limited,	Baden, Ontario.
The Canada Linseed Oil Mills Limited,	40 Wabash Avenue, Toronto, Ontario.
Soybean Oil and Meal Co-Operative Company of Canada, Limited,	Chatham, Ontario.
The Dominion Linseed Oil Company Limited,	St. Boniface, Manitoba.
The Sherwin-Williams Co. of Canada Ltd.,	110 Sutherland Street, Winnipeg, Manitoba.
The Alberta Linseed Oil Company Limited,	Medicine Hat, Alberta.

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