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REPORT
ON THE
LINSEED & SOYBEAN OIL INDUSTRY
IN
CANADA
1933

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

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THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1933.

In 1933 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 \$3,022,676 in fixed and working capital; they furnished employment to 201 persons who were paid \$222,759 in salaries and wages. They also spent \$1,542,119 for materials and produced goods valued at the factory at \$2,086,557, leaving the value added by manufacture at \$544,438.

On account of the addition of firms making soybean oil and soybean oil meal, the industry has been renamed "the linseed and soybean oil industry".

Linseed oil, raw and boiled, is the principal item of production, the output in 1933 amounting to 2,719,286 gallons valued at \$1,450,512. This is followed by oil-cake meal with an output of 20,680 tons valued at \$535,624. Detailed statistics of production for 1932 and 1933 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 and 1933. As compared with the previous year, the number of establishments in 1933 was increased by one with an increase in the capital investment of \$200,827. In spite of this, the number of employees decreased by seventeen with a drop of \$57,298 in the salaries and wages paid, and the value of production decreased by \$766,324. The value added by manufacture also dropped from \$690,019 in 1932 to \$544,438 in 1933.

The decrease in the value of production was mostly due to a decrease in the volume of the products made. Compared with 1932 there was a decrease of 742,115 gallons in the output of raw linseed oil; 34,241 gallons in boiled linseed oil; 61,741 gallons in special linseed oil; 8,610 tons in oilcake meal and 2,891 tons in the output of oil-cake.

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

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Table 1. - Principal Statistics, 1921-1933.

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
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	222,758	1,542,119	2,086,557

Table 2. - Principal Statistics Compared, 1932 and 1933.

Items	1933	1932	/ Increase - Decrease
Establishments reporting	No. 10	9	/ 1
Capital invested	\$ 3,022,676	2,821,849	/ 200,827
Employees on salaries -			
Male	No. 38	38	-
Female	No. 6	5	/ 1
Total salaries	\$ 98,993	101,222	- 2,229
Employees on wages -			
Male	No. 157	175	- 18
Female	No. -	-	-
Total wages	\$ 123,766	178,835	- 55,069
Cost of fuel and electricity	\$ 54,077	56,604	- 2,527
Power equipment -			
Units	No. 147	132	/ 15
Horse-power capacity	H.P. 2,303	2,154	/ 149
Cost of materials used	\$ 1,542,119	2,162,862	- 620,743
Gross value of products	\$ 2,086,557	2,852,881	- 766,324
Value added by manufacture	\$ 544,438	690,019	- 145,581

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Table 3. - Production, by Quantity and Value, 1932 and 1933.

Classes of Products	Unit of Measure	1 9 3 3		1 9 3 2	
		Quantity	Selling Value at Mill	Quantity	Selling Value at Mill
			\$		\$
Linseed oil, raw	Gallon	1,408,845	700,423	2,150,960	1,111,425
Linseed oil, boiled	"	691,759	368,389	726,000	396,109
Linseed oil, special	"	618,682	381,700	680,423	428,286
Oilcake	Ton	1,625	41,092	4,516	104,869
Oilcake meal	"	20,680	535,624	29,290	767,269
Linseed meal	"	177	10,258	163	9,224
All other products	-	-	49,071 ^x	-	35,699 ^x
TOTAL VALUE OF PRODUCTS .	-	-	2,086,557	-	2,852,881

^x Includes soybean oil and soybean meal.

Table 4. - Materials Used, 1932 and 1933.

Principal Materials	Unit of Measure	1 9 3 3		1 9 3 2	
		Quantity	Cost Value at Mill	Quantity	Cost Value at Mill
			\$		\$
Flaxseed	Bushels	1,322,898	1,426,357	1,861,664	2,068,676
Press and filter cloth	Pounds	-	12,658	-	16,254
Chemicals (fullers' earth, sulphuric acid, caustic soda and potash)	Pounds	197,190	5,469	179,993	4,711
Containers, etc.	-	-	78,409	-	61,667
All other materials	-	-	19,226 ^x	-	12,240 ^x
TOTAL COST OF MATERIALS .	-	-	1,542,119	-	2,162,862

^x Includes 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.

In 1933, the number of establishments reporting was ten with a total capital investment of \$3,022,676, a total gross value of production of \$2,086,557 and a total employment of 201. Of the total number of establishments, five had a capital investment

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of \$2,316,308 or 77 per cent of the total investment with an average investment of \$463,262 per establishment. In gross value of production, four establishments had a total production of \$1,466,019 or 70 per cent of the total for the industry and an average production per establishment of \$366,505. In employment, four establishments had a total payroll of 124 or 61 per cent of the total number employed and an average employment of thirty-one 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 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	5	706,368	141,274	3	362,110	120,703
\$300,000 and over	5	2,316,308	463,262	6	2,459,739	409,956
TOTAL AND AVERAGE .	10	3,022,676	302,268	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 3			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 \$250,000	6	620,538	103,423	4	455,072	113,768
\$250,000 and over	4	1,466,019	366,505	5	2,397,809	479,562
TOTAL AND AVERAGE .	10	2,086,557	208,656	9	2,852,881	316,987

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

Groups of Employees	1 9 3 3			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 20 employees	6	77	13	4	43	11
20 employees and over ...	4	124	31	5	175	35
TOTAL AND AVERAGE ..	10	201	20	9	218	24

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Table 6. - Capital Employed, 1932 and 1933.

Items of Capital	1 9 3 3	1 9 3 2
	\$	\$
Fixed Capital -		
(a) Present value of land, buildings, etc.	1,156,481	1,617,759
Working Capital -		
(b) Inventory value of materials and supplies on hand and stocks in process	505,594	323,986
(c) Inventory value of finished products on hand ...	575,856	513,793
(d) Operating capital (cash, bills receivable, etc.)	784,745	366,311
TOTAL CAPITAL EMPLOYED	3,022,676	2,821,849

Table 7. - Employment of Wage-earners by Months, 1933.

Months	Number of Wage-earners		Months	Number of Wage-earners	
	Male	Female		Male	Female
January	120	-	July	136	-
February	161	-	August	121	-
March	185	-	September	138	-
April	195	-	October	155	-
May	124	-	November	211	-
June	133	-	December	212	-
MONTHLY AVERAGE				157	-

Table 8. - Number of Wage-earners in Month of Highest Employment
whose Regular Hours per Week in 1933 were: -

Hours Worked per Week	Number of Employees	Hours Worked per Week	Number of Employees
40 hours or less	79	51-53 hours	2
41-43 hours	8	54 hours	1
44 hours	8	55 hours	2
45-47 hours	1	56-59 hours	-
48 hours	78	60 hours	32
49-50 hours	1	Over 60 hours	35

The above table does not include overtime.

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Table 9. - Power Equipment, 1933.

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 .	137	2,107
TOTAL POWER USED IN MANUFACTURING	147	2,303
Boilers	13	905

Table 10. - Fuel and Electricity, 1933.

Kinds of Fuel Used	Unit of Measure	Quantity	Cost Value at Works \$
Bituminous coal	Ton	2,498	16,357
Gasoline	Gallon	360	96
Fuel oil	"	2,007	210
Gas, natural	M cu. ft.	2,630	1,342
Other fuel (steam purchased)	-	-	2,723
TOTAL COST OF FUEL	-	-	20,728
Cost of electricity purchased (including service charges)	K.W.H.	2,296,373	33,349

Imports and Exports.

Imports and exports of flaxseed, oils, oilcake and meal are shown in tables 11 and 12 for the calendar years 1932 and 1933 by countries, quantities and values. The total value of the imports dropped from \$428,844 in 1932 to \$339,147 in 1933, while the value of the exports rose from \$581,097 in 1932 to \$875,063 in 1933.

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Table 11. - Imports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1932 and 1933.

Articles by Countries	Unit of Measure	1 9 3 3		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil, boiled					
or raw Total	Cwt.	16,036	90,345	8,057	36,998
United Kingdom	"	14,130	77,130	7,025	26,560
United States	"	668	8,108	972	9,994
Netherlands	"	1,238	5,107	-	-
France	"	-	-	60	444
Flaxseed Total	Bushels	150,196	197,103	455,268	338,969
United Kingdom	"	133	169	491	1,552
United States	"	40	69	1	4
Argentina	"	149,633	195,957	454,309	336,374
France	"	368	876	467	1,039
Belgium	"	22	32	-	-
Linseed oilcake and linseed					
oilcake meal Total	Cwt.	2,073	2,485	622	581
United States	"	2,040	2,444	62	79
Australia	"	-	-	560	502
British South Africa	"	33	41	-	-
Soybeans, soybean cake and					
meal Total	Cwt.	28,992	49,214	38,593	52,296
United Kingdom	"	4,468	6,769	3,854	6,518
United States	"	9,552	12,858	15,549	17,401
China	"	14,972	29,587	19,190	28,377
TOTAL VALUE OF IMPORTS .	-	-	339,147	-	428,844

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1932 and 1933.

Articles by Countries	Unit of Measure	1 9 3 3		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed or linseed oil ... Total	Gallons	8,446	7,377	1,288	793
United Kingdom	"	775	646	40	40
United States	"	6,434	5,838	40	38
Newfoundland	"	938	667	49	34
St. Pierre and Miquelon ...	"	185	143	847	487
Other Countries	"	114	83	312	194

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Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry,
for the Calendar Years 1932 and 1933. - (Concl'd.)

Articles by Countries	Unit of Measure	1 9 3 3		1 9 3 2	
		Quantity	Value	Quantity	Value
			\$		\$
Flaxseed for sowing Total	Bushels	9,292	23,376	4,872	9,686
United Kingdom	"	9,272	23,336	4,872	9,686
United States	"	20	40	-	-
Flaxseed, n.o.p. Total	Bushels	605,633	672,359	362,578	269,688
United Kingdom	"	39,969	43,966	27,957	14,259
United States	"	565,664	628,393	334,621	255,429
Oilcake Total	Cwt.	121,955	171,951	233,071	300,930
United Kingdom	"	57,131	79,801	78,051	101,397
United States	"	6,500	9,069	45,300	58,861
Barbados	"	12,450	15,904	39,427	51,395
Trinidad and Tobago	"	2,468	3,035	9,052	11,024
Other British West Indies	"	10,456	15,147	8,292	10,661
Bermuda	"	736	1,165	848	1,368
Newfoundland	"	1,009	1,423	1,015	1,365
Netherlands	"	27,081	40,719	46,045	58,286
British Guiana	"	4,087	5,635	5,039	6,563
Other Countries	"	37	53	2	10
TOTAL VALUE OF EXPORTS		-	875,063	-	581,097

Firms Engaged in the Linseed and Soybean Oil Industry in Canada, 1933.

The Canada Linseed Oil Mills Limited,	2210 Notre Dame Street 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 Canada Linseed Oil Mills Limited,	40 Wabash Avenue, Toronto, Ontario.
The Canadian Soyabeans Limited,	Milton, Ontario.
The Dominion Linseed Oil Company Limited,	Baden, Ontario.
Soybean Oil & Meal Co-Operative Company of Canada Limited,	Chatham, Ontario.
The Dominion Linseed Oil Company Limited,	830 Archibald Street, 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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