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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
GENERAL MANUFACTURES BRANCH

REPORT
ON THE
LINSEED & SOYBEAN OIL INDUSTRY
IN
CANADA

1937



OTTAWA
1938

Price 15 cents

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, 1937.

In 1937 there were eleven plants in operation, located by provinces as follows: Quebec, 5; Ontario, 3; Manitoba, 2; and Alberta, 1. These plants reported a capital investment in fixed and current assets of \$2,450,557 and furnished employment to 242 persons who were paid \$293,443 in salaries and wages. They also spent \$4,099,823 for materials, fuel and electricity and produced goods with a selling value at the factory of \$5,049,528, leaving a value added by manufacture of \$949,705.

Linseed oil is the principal item of production, the output in 1937 amounting to 4,675,430 gallons valued at \$3,476,900. This is followed by oilcake meal with an output of 39,730 tons and a value of \$1,374,673. Detailed statistics of production for 1937 and 1936 are given in Table 3.

Continued expansion characterized the operations of the Linseed Oil Industry in 1937. Compared with the previous year, there was an increase of \$947,746 or 23.1 per cent in the gross value of production and \$184,188 or 24.0 per cent in the value added by manufacture. Employment was furnished to 23 more persons with an increase of \$33,703 in salaries and wages paid. The volume of production in 1937 was again considerably higher than in the previous year. Compared with 1936 there was an increase of 522,104 gallons in the output of raw linseed oil with an increase of \$436,195 in its selling value. Increases were also reported in the production of special linseed oil and oilcake meal. The former was 28,115 gallons and the latter 4,949 tons higher. Of particular significance is the increase in value of \$59,416 in the output of soybean products which amounted to \$110,931 in 1937.

Flaxseed comprises the most important material used by this industry and accounted for 95 per cent of the total value of materials used. Of the 2,245,846 bushels of flaxseed used, 1,274,832 bushels were of foreign origin and 971,014 of domestic origin. The consumption of domestic flaxseed declined from 54 per cent of the total in 1936 to 43 per cent in 1937.

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, 1937.

Table 1. - Principal Statistics, 1922-1937.

	Estab- lish- ments	Capital Invested	Em- ployees	Salaries and Wages	Cost of Materials Used	Gross Value of Products ^x
	No.	\$	No.	\$	\$	\$
1922	8	2,603,241	251	303,465	4,719,555	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	4,876,875	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	2,852,891
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
1936	10	2,544,705	219	259,740	3,279,241	4,101,782
1937	11	2,450,557	242	293,443	4,036,075	5,049,528

^x Selling value at the factory.

Table 2. - Principal Statistics Compared, 1936 and 1937.

Items	1 9 3 7	1 9 3 6	+ Increase - Decrease
Establishments reporting	No. 11	10	+ 1
Capital invested	\$ 2,450,557	2,544,705	- 94,148
Employees on salaries -			
Male	No. 36	31	+ 5
Female	No. 7	7	-
Total salaries	\$ 93,730	91,360	+ 2,370
Employees on wages -			
Male	No. 198	181	+ 17
Female	No. 1	-	+ 1
Total wages	\$ 199,713	168,380	+ 31,333
Power equipment -			
Units	No. 138	133	+ 5
Horse power capacity	H.P. 2,183	2,084	+ 99
Cost of fuel and electricity	\$ 63,748	57,024	+ 6,724
Cost of materials used	\$ 4,036,075	3,279,241	+ 756,834
Gross value of products	\$ 5,049,528	4,101,782	+ 947,746
Value added by manufacture	\$ 949,705	765,517	+ 184,188

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1937.

Table 3. - Production, by Quantity and Value, 1936 and 1937.

Classes of Products	Unit of Measure	1 9 3 7		1 9 3 6	
		Quantity	Selling Value at Mill	Quantity	Selling Value at Mill
			\$		\$
Linseed oil, raw	Gallon	2,839,097	2,026,532	2,316,993	1,590,337
Linseed oil, boiled	"	767,425	580,765	767,420	552,291
Linseed oil, special ...	"	1,068,908	869,603	1,040,793	799,262
Linseed oilcake	Ton	1,519	50,091	2,000	56,525
Linseed oilcake meal ...	"	39,730	1,374,673	34,781	1,014,686
Linseed meal	"	195	18,247	183	17,133
Soybean products ^x	Pound	3,454,405	110,931	1,588,179	51,515
Soap	Pound	451,199	16,174	445,171	20,033
All other products	-	-	2,512	-	-
TOTAL VALUE OF PRODUCTS	-	-	5,049,528	-	4,101,782

^x Includes soybean oil, soybean meal, and soybean flour.

Table 4. - Materials Used, 1936 and 1937.

Principal Materials	Unit of Measure	1 9 3 7		1 9 3 6	
		Quantity	Cost Value at Mill	Quantity	Cost Value at Mill
			\$		\$
Flaxseed, Canadian	Bushel	971,014	1,606,558	1,070,596	1,686,347
Flaxseed, imported	"	1,274,832	2,233,358	914,729	1,426,777
Press and filter cloth ..	"	-	30,580	-	23,034
Chemicals, (fullers' earth, clarex earth, sulphuric acid, caustic soda and potash)	Pound	382,976	15,277	393,277	15,833
Containers, etc.	-	-	67,103	-	87,686
All other materials ^x ...	-	-	83,199	-	39,564
TOTAL COST OF MATERIALS	-	-	4,036,075	-	3,279,241

^x Includes cost of soybeans.

Size of Establishments

A series of tables has been prepared presenting in a three fold 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, 1937.

In 1937 the number of establishments reporting was eleven with a total capital investment of \$2,450,557, a total gross value of production of \$5,049,528, and a total employment of 242. Of the total number of establishments, three had a capital investment of \$1,221,835 or almost 50 per cent of the total investment, with an average investment of \$407,278 per establishment. In gross value of production, seven establishments had a total production of \$4,783,195 or almost 95 per cent of the total for the industry and an average production per establishment of \$683,314. In employment, five establishments had a total payroll of 180 or over 74 per cent of the total number employed and an average employment of 36 persons per establishment.

Table 5(a). - Capital Investment.

Establishments having a Capital Investment of:	1 9 3 7			1 9 3 6		
	Estab- lish- ments	Capital Invested	Average Capital per Estab- lishment	Estab- lish- ments	Capital Invested	Average Capital per Estab- lishments
	No.	\$	\$	No.	\$	\$
Under \$300,000	8	1,228,722	153,590	6	934,980	155,830
\$300,000 and over .	3	1,221,835	407,278	4	1,609,725	402,431
TOTAL AND AVERAGE .	11	2,450,557	222,778	10	2,544,705	254,470

Table 5(b). - Production.

Establishments having a Production of:	1 9 3 7			1 9 3 6		
	Estab- lish- ments	Total Pro- duction	Average Production per Estab- lishment	Estab- lish- ments	Total Pro- duction	Average Production per Estab- lishment
	No.	\$	\$	No.	\$	\$
Under \$250,000	4	266,333	66,583	4	401,256	100,314
\$250,000 and over .	7	4,783,195	683,314	6	3,700,526	616,754
TOTAL AND AVERAGE .	11	5,049,528	459,048	10	4,101,782	410,178

Table 5(c). - Employees.

Establishments having an average employment of:	1 9 3 7			1 9 3 6		
	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	62	10	6	74	12
20 employees and over	5	180	36	4	145	36
TOTAL AND AVERAGE .	11	242	22	10	219	22

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1937.

Table 6. - Capital Investment, 1936 and 1937.

Items of Capital	1 9 3 7	1 9 3 6
	\$	\$
Fixed Capital -		
Present value of land, buildings, etc.	1,202,445	1,223,236
Working Capital -		
Inventory value of materials and supplies on		
hand, stocks in process and finished products		
on hand	878,095	957,846
Operating capital (cash, bills receivable, etc.)	370,017	363,623
TOTAL CAPITAL INVESTED	2,450,557	2,544,705

Table 7. - Employment of Wage-earners, by Months, 1937.

Months	Number of Wage-earners		Months	Number of Wage-earners	
	Male	Female		Male	Female
January	203	1	July	175	1
February	206	1	August	193	1
March	191	1	September	205	1
April	193	1	October	203	1
May	204	1	November	211	1
June	187	1	December	206	1
MONTHLY AVERAGE				198	1

Table 8. - Number of Wage-earners in Month of Highest Employment whose Regular Hours per Week in 1937 were:-

Hours Worked per Week	Number of Employees	Hours Worked per Week	Number of Employees
40 hours or less	6	51-53 hours	-
41-43 hours	-	54 hours	1
44 hours	15	55 hours	6
45-47 hours	2	56-59 hours	10
48 hours	103	60 hours and over	90
49-50 hours	4		

The above table does not include overtime.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1937.

Table 9. - Power Equipment, 1937.

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 - In use	128	1,987
Idle	-	-
TOTAL POWER USED IN MANUFACTURING	138	2,183
Boilers - In use	9	715
Idle	1	100

Table 10. - Fuel and Electricity, 1937.

Kind of Fuel Used	Unit of Measure	Quantity	Cost Value at Works
			\$
Bituminous coal	Ton	2,278	16,041
Wood	Cord	15	97
Gasoline	Gallon	540	147
Fuel oil	"	5,100	453
Gas, natural	M.cu.ft.	1,869	412
Other fuel (steam, etc.)	-	-	3,430
TOTAL COST OF FUEL	-	-	20,580
Cost of electricity purchased (including service charges)	Kw. H.	3,724,356	43,168
TOTAL COST OF FUEL AND ELECTRICITY	-	-	63,748

Imports and Exports

Imports and exports of flaxseed, oils, oilcake and meal are shown in tables 11 and 12 for the calendar years 1936 and 1937, by quantities and values. The total value of the imports rose from \$1,851,443 in 1936 to \$2,211,833 in 1937, and the value of the exports dropped from \$539,269 in 1936 to \$273,469 in 1937.

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1937.

Table 11. - Imports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1936 and 1937.

Articles by Countries	Unit of Measure	1 9 3 7		1 9 3 6	
		Quantity	Value \$	Quantity	Value \$
Flaxseed or linseed oil, boiled or raw .. Total	Cwt.	42,482	251,716	29,203	157,763
Flaxseed Total	Bushels	1,210,765	1,603,007	1,293,354	1,608,673
Linseed oilcake and linseed oilcake meal. Total	Cwt.	1,632	2,064	2,132	3,021
Soybean cake, meal, oil meal and flour .. Total	Cwt.	221,135	337,978	128,225	170,200
Soy Beans Total	Pounds	889,181	17,068	1,733,805	30,563
TOTAL VALUE OF IMPORTS	-	-	2,211,833	-	1,851,443

Table 12. - Exports of Products Made or Used by the Linseed and Soybean Oil Industry for the Calendar Years 1936 and 1937.

Articles by Countries	Unit of Measure	1 9 3 7		1 9 3 6	
		Quantity	Value \$	Quantity	Value \$
Flaxseed or linseed oil Total	Gallons	849	820	1,590	1,370
Flaxseed for sowing .. Total	Bushels	12,981	68,348	8,783	46,966
Flaxseed, n.o.p. Total	Bushels	166	471	171,131	270,039
Oilcake Total	Cwt.	122,791	203,830	147,021	220,894
TOTAL VALUE OF EXPORTS	-	-	273,469	-	539,269

THE LINSEED AND SOYBEAN OIL INDUSTRY IN CANADA, 1937.

Firms engaged in the Linseed and Soybean Oil Industry in Canada, 1937.

QUEBEC

The Canada Linseed Oil Mills Limited,	2210 Notre Dame Street East, Montreal
Continental Soya Company Ltd.,	20 Bates Road, Outremont
The Dominion Linseed Oil Company Limited	837 Mill Street, Montreal
Dominion Soya Industries, Ltd.	2049 Harvard Ave., Montreal
The Sherwin-Williams Company of Canada, Limited,	2875 Centre Street, Montreal

ONTARIO

The Canada Linseed Oil Mills, Limited,	48 Wabash Avenue, Toronto
The Dominion Linseed Oil Company Limited,	Baden
Soya Mills Limited	54 George St., Stratford

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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