32-223

FEB - 8 1955

CANADA

THE VEGETABLE OILS INDUSTRY

1953

Published by Authority of

The Right Honourable C. D. Howe, Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

Metal and Chemical Products Section

6512-622
27-12-54

Price 25 cents

Vol. 2—Part XVI—J-1

EDMOND CLOUTIER, C.M.G., O.A., D.S.P., Queen's Printer and Controller of Stationery, Ottawa, 1954.

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** – The Primary Industries, including mining, forestry and fisheries; **Volume II** – Manufacturing; **Volume III** – Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

I – General Review of the Manufacturing Industries, $1.50
II – The Manufacturing Industries of Canada, (7 sections, as follows:)
- Section A. Summary for Canada, 25¢
- Section B. Atlantic Provinces, 25¢
- Section C. Quebec, 25¢
- Section D. Ontario, 25¢
- Section E. Prairie Provinces, 25¢
- Section F. British Columbia, 25¢
- Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢

III – Foods and Beverages
IV – Tobacco and Tobacco Products
V – Rubber Products
VI – Leather Products
VII – Textiles
VIII – Wood and Paper Products
IX – Printing Trades
X – Iron and Steel Products
XI – Transportation Equipment
XII – Non-ferrous Metal Products
XIII – Electrical Apparatus and Supplies
XIV – Non-metallic Mineral Products
XV – Products of Petroleum and Coal
XVI – Chemicals and Allied Products
XVII – Miscellaneous Manufactures

The present report belongs in Part XVI, Chemicals and Allied Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

A – General Review, 25¢
B – The Acids, Alkalies and Salts Industry, 25¢
C – The Fertilizers Industry, 25¢
D – The Fertilizer Trade in Canada, 25¢
E – The Medicinal and Pharmaceutical Preparations Industry, 25¢
F – The Paints, Varnishes and Lacquers Industry, 25¢
G – The Primary Plastics Industry, 25¢
H – The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢
I – The Toilet Preparations Industry, 25¢
J – The Vegetable Oils Industry, 25¢
K – The Inks Industry, 25¢
L – The Adhesives Industry, 25¢
M – The Polishes and Dressings Industry, 25¢
N – The Compressed Gases Industry, 25¢
O – The Coal Tar Distillation Industry, 25¢
P – The Miscellaneous Chemical Products Industry, 25¢

THE VEGETABLE OILS INDUSTRY

1953

This report presents statistics for the Vegetable Oils Industry which includes all establishments whose principal operations consist of the extraction of vegetable oils, such as linseed, soya bean, cocoanut, etc. No mention is made of concerns which refine vegetable oils as a secondary part of their operations or for their own use for the manufacture of margarine, shortening and cooking oils. These items are produced in works classified to the Slaughtering and Meat Packing Industry which is reviewed in a separate bulletin.

There were 13 factories in operation in this industry during 1953, of which 5 were located in Ontario, 3 in Manitoba, 2 in Quebec and 1 each in Saskatchewan, Alberta and British Columbia. These concerns gave employment to 675 people who were paid $2,345,831 in salaries and wages. Materials used in manufacturing processes cost $43,992,061 and expenditures for fuel and electricity amounted to $492,220.

Factory shipments in 1953 were valued at $50,843,440 and included oils at $28,241,577, oilcake at $22.429,998, soap at $53,585 and other products at $118,280. In 1952 factory shipments were reported at $51,931,990 and in 1951 at $60,202,123.

TABLE 1. Principal Statistics of The Vegetable Oils Industry, 1949-1953

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Value of factory shipments
			$	$	$	$
1949	15	829	2,122,103	477,054	41,631,796	51,241,541
1950	15	792	2,155,085	524,066	40,213,293	47,026,547
1951	13	751	2,316,079	623,871	48,729,012	60,202,123
1952	13	723	2.428,237	581,146	44,478,536	51,931,990
1953	13	675	2,345,831	492,220	43,992,061	50,843,440
Per cent change, 1953 from 1952	—	-6.6	-3.4	-15.3	-1.1	-2.1

Note. Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 2. Principal Statistics of The Vegetable Oils Industry, by Provinces, 1952 and 1953

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Value of factory shipments
			$	$	$	$
1952						
Ontario	5	392	1,406,538	426,136	31,188,130	35,293,501
Manitoba	3	75	201,749	49,964	1,971,833	2,525,335
Quebec	2					
Saskatchewan	1	256	820,000	104,996	11,313,573	14,112,654
Alberta	1					
British Columbia	1					
Canada	**13**	**723**	**2,428,287**	**581,146**	**44,478,536**	**51,931,990**
1953						
Ontario	5	337	1,252,549	327,224	31,774,506	36,063,929
Manitoba	3	74	139,758	53,072	2,179,982	2,705,633
Quebec	2					
Saskatchewan	1	264	903,524	111,924	10,037,573	12,063,873
Alberta	1					
British Columbia	1					
Canada	**13**	**675**	**2,345,831**	**492,220**	**43,992,061**	**50,843,440**

TABLE 3. Products Manufactured in The Vegetable Oils Industry, 1952 and 1953

Product	Unit of measure	Quantity made[1]	Factory shipments	
			Quantity	Selling value at works
				$
1952				
Section "A" — Oils, raw or crude				
Linseed oil	gal.	7,383,015	4,085,762	7,066,498
Soya bean oil	lb.	71,633,704	71,374,124	10,323,951
Other oils (rapeseed, cocoanut, sunflower, mustard seed and weed oil)	"	40,924,565	40,561,544	4,206,552
Section "B" — Oils, processed				
Linseed oil, boiled	gal.	514,093	538,592	1,083,989
Linseed oil, special	"	3,644,885	3,228,520	7,053,725
Soya bean oil	lb.	73,848	36,960	7,009
Other refined oils	"	353,849	133,592	37,566
Section "C" — Other products				
Linseed oilcake	ton	61,312	59,072	4,981,043
Soya bean oilcake	"	172,369	171,390	15,474,894
Oilcake, other	"	11,089	11,089	782,255
Soap	lb.	1,075,498	1,002,688	75,235
Other products	—	—	—	839,273
Total	—	—	—	**51,931,990**
1953				
Section "A" — Oils, raw or crude				
Linseed oil	gal.	10,101,780	6,367,636	7,247,997
Soya bean oil	lb.	91,960,954	87,900,689	12,713,090
Other oils (rapeseed, cocoanut, sunflower, mustard seed and weed oil)	"	20,797,757	18,928,000	2,563,668
Section "B" — Oils, processed				
Linseed oil, boiled	gal.	508,322	527,082	719,385
Linseed oil, special	"	3,866,737	3,103,099	4,182,564
Soya bean oil	lb.	3,976,113	3,309,550	523,528
Other refined oils	"	1,566,416	1,443,909	291,345
Section "C" — Other products				
Linseed oilcake	ton	77,089	75,942	6,137,763
Soya bean oilcake	"	206,426	207,127	15,911,631
Oilcake, other	"	8,199	6,772	380,604
Soap	lb.	767,097	677,293	53,585
Other products	—	—	—	118,230
Total	—	—	—	**50,843,440**

Note. The data in Tables 3 and 4 do not apply strictly to calendar year operations as some firms reported on a fiscal year basis.

1. Total production whether for sale or for further processing.

TABLE 4. Materials Used in The Vegetable Oils Industry, 1952 and 1953

Material	Unit of measure	1952		1953	
		Quantity	Cost at mills	Quantity	Cost at mills
			$		$
Flaxseed	bushel	3,661,402	15,458,623	4,653,323	14,789,235
Soya beans	lb.	431,359,280	22,408,905	515,423,480	25,183,611
Other nuts, grains and seeds	"	68,079,984	4,511,093	39,899,835	2,807,773
Sulphuric acid, 100%	"	279,490	7,305	234,429	5,842
Fuller's earth	"	2,780	15	26,950	1,395
Caustic soda	"	217,931	10,042	263,347	11,534
Caustic potash	"	120,599	9,625	114,075	9,460
Driers	gal.	19,203	25,306	17,142	23,755
Celite	lb.	53,444	3,391	30,325	1,801
Filtrol	"	657,080	34,470	626,085	31,129
Press cloth	"	2,131	1,939	100	160
Filter cloth	yd.	5,817	7,188	5,138	6,649
Containers, etc.	–	–	796,605	–	873,422
All other materials	–	–	1,204,029	–	246,295
Total	–	–	**44,478,536**	–	**43,992,061**

Note: See footnote to Table 3.

TABLE 5. Available Data on Consumption of Vegetable Oils, by Industries, 1951 and 1952

Industry	Unit of measure	1951		1952	
		Quantity	Cost at works	Quantity	Cost at works
			$		$
Castor oil:					
Medicinals	gal.	6,197	23,655	8,072	28,544
Paints	"	242,101	957,029	238,770	846,666
Miscellaneous chemicals	"	271,777	776,750	210,824	545,677
Inks	"	4,219	16,912	1,880	6,061
Oilcloth	"	24,000	61,309	19,430	59,008
Tanneries	"	1,600	3,048	1,062	1,821
Vegetable oil mills	"	–	–	11,000	26,400
Chinawood oil:					
Paints	lb.	5,398,244	1,906,199	4,866,361	1,719,950
Miscellaneous chemicals	"	17,218	6,171	43,304	15,266
Inks	"	80,481	29,428	56,142	15,154
Oilcloth	"	41,440	11,470	1,320	155
Cocoanut oil:					
Slaughtering and meat packing[1]	lb.	33,825,054	6,622,153	36,622,516	4,548,465
Heavy chemicals	"	377,167	75,769	901,680	101,793
Soaps	"	18,705,919	3,617,981	18,646,780	2,198,428
Cleaning preparations	"	14,885	3,382	25,266	6,237
Toilet preparations	"	715,550	137,315	761,799	104,208
Miscellaneous chemicals	"	464,873	99,794	438,044	70,171
Confectionery	"	306,614	97,434	731,080	161,756
Tanneries	"	4,381	1,078	5,309	1,199
Miscellaneous foods	"	5,548,027	1,522,050	6,417,810	1,329,341
Biscuits	"	3,559,006	831,584	4,130,157	952,718
Bread and other bakery products	"	45,657	13,312	75,088	19,611

TABLE 5. Available Data on Consumption of Vegetable Oils, by Industries, 1951 and 1952 — Concluded

Industry	Unit of measure	1951		1952	
		Quantity	Cost at works	Quantity	Cost at works
			$		$
Cottonseed oil:					
Slaughtering and meat packing[1]	lb.	28,919,373	7,421,264	66,330,323	10,086,652
Confectionery	"	25,827	10,539	13,587	2,548
Miscellaneous foods	"	4,176,120	1,169,177	7,320,688	1,441,902
Biscuits	"	30,212	8,368	138,195	34,552
Fish-curing and packing	"	206,000	47,355	273,559	50,306
Bread and other bakery products	"	186,640	44,326	174,995	46,916
Oilcloth	"	43,597	16,132	21,684	6,553
Linseed oil:					
Paints	gal.	3,670,866	7,228,790	3,411,854	6,128,650
Soaps	"	32,345	63,983	29,304	56,027
Plastics	"	22,731	50,035	5,127	11,631
Miscellaneous chemicals	"	281,151	590,568	278,390	458,386
Inks	"	185,046	402,485	99,047	194,956
Linoleum	"	1,432,000	3,296,088	1,562,573	2,865,388
Miscellaneous non-metallic mineral products	"	25,852	50,278	24,483	34,594
Primary iron and steel	"	36,719	53,871	15,517	31,047
Cleaning preparations	"	1,798	3,421	1,681	2,920
Polishes & dressings	"	3,801	7,053	874	1,805
Vegetable oil mills	"	—	—	231,278	350,000
Oiticica oil:					
Paints	lb.	212,984	67,833	194,029	53,993
Palm oil:					
Soaps	lb.	182,381	33,209	120,530	16,373
Slaughtering and meat packing[1]	"	9,653,192	2,054,546	8,560,207	1,384,332
Primary iron and steel	"	1,678,021	326,747	1,874,000	377,012
Peanut oil:					
Soaps	lb.	2,300	480	—	—
Miscellaneous foods	"	335,355	93,211	228,604	61,606
Slaughtering and meat packing[1]	"	26,695,765	6,745,360	721,617	137,269
Soya bean oil:					
Paints	lb.	3,293,607	759,586	5,275,902	834,197
Soaps	"	29,986	7,171	117,032	15,722
Cleaning preparations	"	16,700	4,442	27,850	3,273
Confectionery	"	19,771	6,687	465	199
Miscellaneous foods	"	6,706,070	1,798,307	7,600,603	1,380,679
Slaughtering and meat packing[1]	"	69,948,280	16,029,815	85,119,356	11,826,956
Fish-packing	"	2,780,000	564,889	2,171,959	352,275
Bread and other bakery products	"	351,115	95,197	254,665	59,991
Biscuits	"	23,830	8,405	3,500	980
Plastics	"	1,496,284	266,740	2,148,236	298,558
Oilcloth	"	—	—	415,397	63,889
Sunflower seed oil:					
Slaughtering and meat packing[1]	lb.	19,531,574	5,028,535	2,129,688	349,966
Tall oil:					
Paints	lb.	607,230	55,841	566,294	49,381
Miscellaneous chemicals	"	1,913,197	101,122	1,568,641	69,934
Soaps	"	155,271	13,730	258,241	22,288
Cleaning preparations	"	16,448	835	41,900	3,769

1. In the slaughtering and meat packing industry there are several concerns which refine purchased crude vegetable oils. Part of these refined oils is used by the refining companies to make shortening, etc., and part is sold either to other concerns within the industry or to concerns in other foods industries. Thus there is duplication in the consumption figures as detailed by industries. It is estimated that the amount of duplication is about as follows in 1951: cocoanut oil, 12.6 million pounds; cottonseed oil, 2.7 million pounds; peanut oil, 0.3 million pounds; soya bean oil, 2.2 million pounds; sunflower seed oil, 5.7 million pounds and palm oil, 2.2 million pounds. In 1952 the amount of duplication is about as follows: cocoanut oil, 12.0 million pounds; cottonseed oil, 11.0 million pounds; peanut oil, 0.2 million pounds; soya bean oil, 5.6 million pounds; sunflower seed oil, 1.1 million pounds and palm oil, 1.2 million pounds.

TABLE 6. Imports and Exports of Specified Commodities Pertaining to The Vegetable Oils Industry, 1952 and 1953

Item	Unit of measure	1952		1953	
		Quantity	Value	Quantity	Value
			$		$
(a) Imports					
Nuts, grains and seeds:					
Copra, not prepared	lb.	69,115,871	4,531,567	24,828,590	2,111,121
Beans, soya	"	280,818,872	14,029,875	274,807,510	12,955,124
Flaxseed	bushel	119,306	596,337	16,183	125,384
Millet and rapeseed	lb.	1,211,465	74,383	1,460,946	83,240
Oils:					
Cocoanut oil:					
Edible	cwt.	23,513	386,869	11,763	200,333
Not edible	"	133,985	1,451,562	336,054	4,642,999
Cottonseed oil:					
Edible	"	14,736	238,430	17,051	290,011
Not edible	"	642,421	7,725,354	465,196	6,286,964
Olive oil:					
Edible	"	17,726	532,523	16,076	498,931
Not edible	"	592	16,245	364	9,836
Peanut oil:					
Edible	"	3,850	80,700	5,158	124,889
Not edible	"	14,502	222,787	17,036	306,294
Soya bean oil:					
Edible	"	64,174	895,511	120,772	1,706,933
Not edible	"	92,624	1,177,239	109,852	1,481,996
Cashew nut shell oil	"	2,270	57,181	1,215	27,980
Castor oil	"	34,748	929,561	49,114	941,203
Chinawood oil	"	52,287	1,680,331	40,743	839,655
Essential oil, natural and synthetic, n.o.p., and non-alcoholic preparations thereof	lb.	872,799	2,268,597	849,342	2,481,722
Eucalyptus oil, natural and synthetic	"	15,331	14,986	31,393	19,914
Flaxseed or linseed oil, raw or boiled	cwt.	20,340	404,768	790	17,468
Tall oil and tall oil pitch	"	36,974	153,853	43,761	174,002
Foots, being the refuse of cottonseed or olives after the oil has been pressed out	"	1,802	21,368	1,334	13,751
Oiticica oil	"	2,303	57,561	572	14,413
Palm oil	"	83,786	887,232	284,541	2,538,438
Peppermint oil, natural and synthetic	lb.	65,538	403,561	65,414	360,648
Rapeseed oil, crude or refined	cwt.	1,527	27,225	–	–
Resin oil	"	5,402	43,674	5,319	43,568
Sesame seed oil	"	146	6,365	173	6,644
Sunflower seed oil	"	21,350	307,983	2,351	38,566
Vegetable oils and mixtures of animal, mineral and vegetable oils, for textiles	"	22,620	472,204	19,783	425,540
Lemon and orange oils, natural or synthetic	lb.	156,486	475,767	175,607	626,167
Spearmint oil, natural or synthetic	"	31,780	194,757	30,656	172,390
Vegetable oils, n.o.p., not edible	cwt.	103,573	1,496,820	124,233	1,947,256
Oilcake and meal:					
Cottonseed cake and cottonseed cake meal	cwt.	4,460	16,130	38,017	95,641
Linseed oilcake and linseed oilcake meal	"	58,954	219,137	14,700	45,003
Palm nut cake and palm nut cake meal	"	626	2,211	120	330
Soya bean oilcake and soya bean oilcake meal	"	328,579	1,421,975	652,241	2,276,399
Soya bean flour	"	49,496	426,183	40,488	337,504
Peanut oilcake and meal	"	600	3,054	–	–
(b) Exports					
Vegetable cooking fats, edible	cwt.	816	20,121	219	4,617
Linseed oilcake and meal	"	144,619	646,792	678,685	2,479,054
Soya bean oilcake and meal	"	869,387	3,945,002	1,473,430	5,615,614
Oilcake and oilcake meal, n.o.p.	"	63,688	230,645	39,213	126,953
Essential oil	lb.	34,915	89,950	18,148	61,495
Foots and other vegetable soap stock	cwt.	42,684	76,068	27,068	60,386
Linseed and flaxseed oil	gal.	2,185,385	3,372,654	3,280,168	3,476,484
Oils, vegetable, n.o.p., not edible	"	410,332	494,700	1,051,111	1,176,537
Flaxseed, n.o.p.	bushel	4,050,177	16,038,292	3,795,073	11,546,026

TABLE 7. Employees and Their Earnings in The Vegetable Oils Industry, by Provinces, 1952 and 1953

Province	Number of employees					Earnings		
	Supervisory and office		Workmen		Total	Supervisory and office	Workmen	Total
	Male	Female	Male	Female				
						$	$	$
1952								
Ontario	79	21	291	1	392	417,010	989,528	1,406,538
Manitoba	21	3	50	1	75	73,152	128,597	201,749
Quebec, Saskatchewan, Alberta, British Columbia	77	40	138	1	256	449,559	370,441	820,000
Canada	**177**	**64**	**479**	**3**	**723**	**939,721**	**1,488,566**	**2,428,287**
1953								
Ontario	67	18	252	—	337	393,313	859,236	1,252,549
Manitoba	20	4	49	1	74	71,296	118,462	189,758
Quebec, Saskatchewan, Alberta, British Columbia	80	42	141	1	264	516,451	387,073	903,524
Canada	**167**	**64**	**442**	**2**	**675**	**981,060**	**1,364,771**	**2,345,831**

TABLE 8. Capital and Repair Expenditures in the Vegetable Oils Industry, 1949-1953

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
				$'000			
1949	499	909	1,408	142	392	534	1,942
1950	84	421	505	181	356	537	1,042
1951	350	734	1,084	81	568	649	1,733
1952	275	992	1,267	132	509	641	1,908
1953[1]	45	283	328	118	315	433	761

1. Preliminary.

TABLE 9. Fuel and Electricity Used[1] in the Vegetable Oils Industry, 1948 and 1953

Kind	Unit of measure	1948		1953	
		Quantity	Cost at works	Quantity	Cost at works
			$		$
Bituminous coal — Canadian	ton	1,993	18,635	98	1,497
Imported	ton	10,604	94,591	11,723	111,254
Anthracite coal	ton	—	—	5,900	56,000
Lignite coal	ton	1,150	6,720	1,833	11,307
Gasoline	Imp. gal.	8,406	3,136	18,200	7,160
Fuel oil	Imp. gal.	1,013,087	111,230	705,780	66,476
Wood	cord	12	96	—	—
Gas — Manufactured	M cu. ft.	—	—	100	250
Natural	M cu. ft.	6,000	618	2,400	721
Other fuel	—	—	15,642	—	38,856
Electricity purchased	k.w.h.	21,177,186	175,646	22,515,432	198,699
Total	—	—	**426,314**	—	**492,220**

1. Details shown in Tables 9 and 10 are collected only every five years; accordingly, data for intervening years are not available.

TABLE 10. Power Equipment[1], 1948 and 1953

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1948				
Steam engines	4	26	—	—
Gasoline, gas and oil engines, other than Diesel engines	3	120	—	—
Hydraulic turbines or water-wheels	—	—	2	100
Electric motors run by purchased power	1,309	12,559	118	859
Total	**1,316**	**12,705**	**120**	**959**
Boilers for power purposes only	7	1,307	1	80
Motor-generator sets	2	53 k.v.a.	—	—
1953				
Steam engines and steam turbines	2	25	—	—
Electric motors run by purchased power	1,821	17,112	68	1,217
Total	**1,823**	**17,137**	**68**	**1,217**
Boilers for power purposes only	2	375	2	280
Motor-generator sets	—	—	—	—

1. See footnote to Table 9.

Directory of Firms Included in The Vegetable Oils Industry, 1953

Name of firm	Location of plant
Quebec:	
The Canada Linseed Oil Mills, Limited	2215 Notre Dame St. E., Montreal
The Sherwin-Williams Co. of Canada Ltd.	2875 Centre St., Montreal
Ontario:	
The Canada Linseed Oil Mills, Limited	40 Wabash Avenue, Toronto
Canadian Vegetable Oils Processing Ltd.	Victoria Avenue, Hamilton
The Dominion Linseed Oil Co. Limited	Baden
Toronto Elevators, Limited, (Oil Crushing Division)	Queen's Quay, Toronto
Victory Mills Limited	285 Fleet St. E., Toronto
Manitoba:	
Co-operative Vegetable Oils, Limited	Altona
Hallet & Carey Ltd.	830 Archibald St., St. Boniface
The Sherwin-Williams Co. of Canada Ltd.	110 Sutherland Avenue, Winnipeg
Saskatchewan:	
Saskatchewan Wheat Pool (Vegetable Oil Plant)	33 Rd. St., Saskatoon
Alberta:	
The Alberta Linseed Oil Co. Limited	Medicine Hat
British Columbia:	
Northern Vegetable Oils Ltd.	Foot Dunlevy Avenue, Vancouver

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA
1010731899