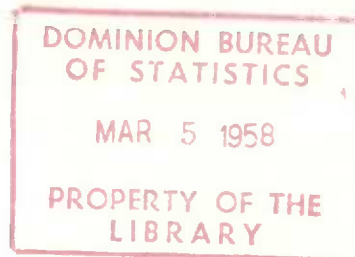


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CANADA

THE MEDICINAL AND PHARMACEUTICAL  
PREPARATIONS INDUSTRY  
1956



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## 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, 50¢
  - Section C. Quebec, 25¢
  - Section D. Ontario, 25¢
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  - Section F. British Columbia, 25¢
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- IX – Clothing
- X – Wood and Paper Products
- XI – Printing Trades
- XII – Iron and Steel Products
- XIII – Transportation Equipment
- XIV – Non-ferrous Metal Products
- XV – Electrical Apparatus and Supplies
- XVI – Non-metallic Mineral Products
- XVII – Products of Petroleum and Coal
- XVIII – Chemicals and Allied Products
- XIX – Miscellaneous Manufactures

The present report belongs in Part XVIII, 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¢
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- 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 MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDUSTRY, 1956

Factory shipments by the manufacturing plants in Canada which were engaged chiefly in making patent and proprietary medicines, pharmaceuticals and similar commodities were valued at \$122,592,220 in 1956, an increase of 13.4 per cent over the comparable figure of \$108,121,734 in 1955.

Of the 212 factories in this group in 1956, 94 were located in Ontario, 92 in Quebec, 11 in British Columbia, 7 in Manitoba, 3 in Newfoundland, 2 in Nova Scotia, 2 in New Brunswick and 1 in Alberta. The total number of employees in 1956 was 7,801 compared with 7,629 in the previous year, and payments in salaries and wages amounted to \$25,953,213 as against \$23,937,050 in 1955. Plants in Ontario

accounted for 51 per cent of the Canadian output, while concerns in Quebec produced 47 per cent.

The concerns in this industry make medicinals and pharmaceuticals as their main products, but they also manufacture other lines, such as toilet preparations, as a secondary part of their business. On the other hand, some companies which have been classified to other industrial groups make some medicinal preparations as minor products. The total Canadian output of medicinals, pharmaceuticals and biologicals, from all industries, amounted in value to \$110,002,000 in 1956 compared with \$100,878,000 in 1955 and \$90,799,000 in 1954.

Note: Figures for value added by manufacture, shown in Table 1, prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952 the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954 and later years information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures.

**TABLE 1. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Significant Years 1929-56, and by Provinces, 1955 and 1956**

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1929 .....	140	2,349	3,672,373	110,065	6,300,394	12,627,935	19,033,894
1933 .....	158	3,169	3,350,928	130,616	5,774,391	11,158,842	17,063,849
1937 .....	174	4,296	5,311,120	175,551	8,803,929	15,830,167	24,814,647
1939 .....	174	4,338	5,906,891	199,899	9,804,525	17,179,838	27,184,262
1945 .....	204	8,329	12,707,220	410,717	22,941,566	36,973,645	60,330,928
1946 .....	201	7,670	12,332,173	440,585	23,163,222	43,446,027	67,049,834
1949 .....	218	7,658	16,116,592	593,187	22,900,555	48,008,393	71,502,135
1952 .....	213	7,457	20,431,873	751,605	27,350,129	59,920,653	88,022,337
1953 .....	217	7,492	21,758,651	822,433	30,716,172	62,018,553	93,557,168
1954 .....	216	7,380	22,648,147	864,899	31,257,738	66,414,045	97,395,558
1955							
Newfoundland .....	3	12	10,920	993	32,940	22,553	57,739
Nova Scotia .....	3	14	24,554	907	55,061	166,549	225,429
Quebec .....	93	3,691	11,921,189	528,806	16,410,747	35,987,320	52,641,448
Ontario .....	92	3,725	11,539,397	318,035	16,588,073	35,453,991	53,344,216
Manitoba .....	7	127	312,664	12,014	542,244	827,767	1,403,868
British Columbia .....	9	54	121,096	9,211	177,532	225,301	414,996
New Brunswick .....	1	6	7,230	1,060	13,080	19,898	34,038
Alberta .....	2						
Canada .....	210	7,629	23,937,050	871,023	33,819,677	72,703,379	108,121,734
1956							
Newfoundland .....	3	25	35,193	1,895	86,319	203,359	289,612
Nova Scotia .....	2						
Quebec .....	92	3,779	12,999,651	529,073	18,756,187	38,143,690	57,691,174
Ontario .....	94	3,832	12,455,038	374,654	18,312,022	43,728,281	62,579,445
Manitoba .....	7	112	311,103	11,385	572,363	896,075	1,466,347
British Columbia .....	11	48	144,378	5,776	266,514	306,591	527,066
New Brunswick .....	2	5	7,300	1,230	15,070	22,276	38,576
Alberta .....	1						
Canada .....	212	7,801	25,953,213	924,013	38,009,475	83,300,272	122,592,220

1. See footnote to text.

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. Inventories<sup>1</sup>, 1956

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Newfoundland .....	37,585	1,300	10,379	49,264
Nova Scotia .....				
Quebec .....	5,174,929	3,086,694	4,382,019	12,643,642
Ontario .....	4,389,321	3,756,151	4,304,677	13,450,149
Manitoba .....	294,051	30,099	205,334	529,484
British Columbia .....	150,022	4,635	26,358	181,515
New Brunswick and Alberta .....	—	—	—	—
<b>Canada .....</b>	<b>10,545,908</b>	<b>6,878,879</b>	<b>9,429,267</b>	<b>26,854,054</b>
Closing:				
Newfoundland .....	46,426	1,112	13,028	60,566
Nova Scotia .....				
Quebec .....	5,359,110	3,267,401	3,939,088	12,565,599
Ontario .....	5,103,629	3,175,855	5,220,435	13,499,969
Manitoba .....	271,394	19,612	229,797	520,803
British Columbia .....	143,281	11,415	71,393	226,589
New Brunswick and Alberta .....	—	—	—	—
<b>Canada .....</b>	<b>10,923,840</b>	<b>6,475,395</b>	<b>9,474,291</b>	<b>26,873,526</b>

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Medicinal and Pharmaceutical Preparations Industry for the year under review are shown in the above table.

(c) The opening inventory for 1956 does not necessarily agree with the closing inventory for 1955 because of revisions such as the addition of new plants, the transfer of plants to other industries and plants going out of business. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

TABLE 3. Products Made in the Medicinal and Pharmaceutical Preparations Industry, 1955 and 1956

Product	Value of factory shipments	
	1955	1956
	\$	\$
Medicines and pharmaceuticals:		
Registered as patent medicines and sold without all ingredients declared .....	20,662,199	20,636,147
Antibiotics and preparations:		
Penicillin preparations .....	2,251,097	2,956,332
Streptomycin preparations .....	150,727	136,274
Penicillin-streptomycin combinations .....	1,087,345	1,076,195
Other antibiotics and preparations thereof <sup>2</sup> .....	8,225,151	8,593,450
Sex hormones .....	2,475,971	2,547,135
Sulphonamide (sulpha) preparations with or without other active ingredients .....	1,676,990	1,983,204
Vitamins and preparations:		
Vitamins in bulk .....	<sup>3</sup>	<sup>3</sup>
Vitamin preparations in which the principal active ingredients are vitamins .....	13,421,261	14,138,965
Biologicals and vaccines .....	4,423,808	5,298,054
Oral antiseptics .....	719,464	780,197
Ethical specialties for human use, not elsewhere specified .....	36,837,450	39,030,248
All other human medicines .....	5,953,528	9,054,296
Veterinary medicines .....	2,056,769	2,198,306
Disinfectants .....	203,142	195,992
Insecticides .....	335,056	415,890
Flavouring extracts .....	477,207	452,562
Toilet preparations .....	4,310,342	6,948,920
All other products <sup>1</sup> .....	2,353,727	6,149,553
<b>Total .....</b>	<b>108,121,734</b>	<b>122,592,220</b>

1. Includes soap, packaged goods, fountain supplies and syrup and other such articles.

2. Includes penicillin, streptomycin and other antibiotics as well as antibiotic preparations not elsewhere specified.

3. Included with "All other human medicines".

Note. Data given in this table are for the Medicinal and Pharmaceutical Preparations Industry ONLY and represent only the production of the firms classified to this group. For the total Canadian output of medicinals see Table 5.

TABLE 4. Materials Used in the Medicinal and Pharmaceutical Preparations Industry, 1955 and 1956

Material	Unit of measure	1955		1956	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Acetanilid.....	lb.	6,851	3,455	8,061	4,314
Acetic acid (as 99½%) .....	"	28,642	4,141	36,429	5,151
Acetone.....	"	853,756	80,869	1,101,670	111,321
Acetylsalicylic acid.....	"	674,888	373,935	777,758	431,262
Benzoic acid .....	"	7,806	4,147	13,328	7,071
Boric or boracic acid .....	"	94,374	11,024	102,766	10,800
Chalk, ground.....	"	77,897	5,102	479,040	11,054
Chalk, precipitated .....	"	285,192	14,270	218,106	12,250
Citric acid .....	"	416,852	118,166	408,159	122,311
Bismuth metal .....	"	41,400	93,196	82,296	236,618
Bismuth salts.....	"	17,330	57,617	21,185	71,324
Caffeine .....	"	31,340	97,643	25,971	75,807
Camphor .....	"	55,682	37,546	58,263	38,651
Castor oil .....	"	44,019	9,918	53,136	14,477
Cod liver oil.....	"	472,404	108,021	528,372	116,078
Essential oils .....	—	—	229,530	—	230,371
Ether, sulphuric.....	lb.	45,450	8,479	57,447	10,483
Ethyl alcohol (including tax).....	Imp. gal.	208,425	493,610	211,383	496,823
Gelatine capsules (for use in compounding) .....	—	—	333,369	—	359,642
Glucose .....	lb.	1,102,987	88,708	855,149	66,024
Glycerine, refined .....	"	906,921	328,628	936,088	326,967
Gums — Arabic .....	"	136,091	30,263	132,279	29,728
Karoya.....	"	103,194	26,791	91,561	32,223
Other.....	"	18,203	27,646	74,014	37,812
Iodine, crude .....	"	94,269	131,294	75,432	100,141
Herbs, roots and vegetable drugs:					
Raw or crude (ground or milled) .....	—	—	331,050	—	183,265
Extracts (powders and liquids) .....	—	—	197,716	—	147,306
Hydrochloric acid .....	lb.	37,947	3,897	59,985	5,489
Isopropyl alcohol.....	"	361,208	39,329	329,923	34,429
Lanolin .....	"	67,572	18,874	70,640	22,437
Magnesium sulphate (Epsom salts).....	"	1,009,634	34,228	1,135,381	37,818
Malt extract .....	"	360,509	49,529	214,598	30,700
Menthol .....	"	22,360	117,541	21,188	123,810
Mercury metal.....	"	33,781	119,088	43,263	138,552
Methyl alcohol (methyl hydrate) .....	Imp. gal.	86,170	53,224	99,958	64,185
Mineral oil, white .....	lb.	1,574,022	164,737	1,495,904	164,987
Nitric acid .....	"	29,010	3,741	38,345	3,681
Paradichlorobenzene.....	"	135,004	19,017	151,844	21,297
Penicillin .....	—	—	619,391	—	1,133,822
Petroleum jelly .....	lb.	1,146,920	104,296	609,434	64,638
Phenacetin .....	"	150,042	160,222	218,682	247,722
Phenobarbital and other barbiturates .....	"	29,147	156,205	28,165	152,615
Phenol (carbolic acid) .....	"	6,048	2,867	7,178	4,138
Potassium iodide.....	"	45,323	70,719	56,487	74,533
Potassium sodium tartate (Rochelle salt) .....	"	17,524	4,752	17,798	4,766
Pyrethrum .....	"	1,246	744	1,303	797
Silver bullion.....	troy oz.	212,942	186,582	185,672	166,827
Sodium bicarbonate.....	lb.	1,535,008	54,418	1,693,342	67,406

**TABLE 4. Materials Used in the Medicinal and Pharmaceutical Preparations Industry, 1955 and 1956 - Concluded**

Material	Unit of measure	1955		1956	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Sodium bromide .....	lb.	63,496	17,404	40,591	15,138
Sodium hydroxide .....	"	2,203,318	42,713	2,420,019	48,454
Sodium salicylate .....	"	12,428	7,463	16,382	9,750
Sodium sulphate .....	"	73,577	7,348	107,615	7,279
Starch .....	"	663,365	55,111	799,273	63,868
Stearic acid .....	"	183,321	30,632	207,960	40,100
Sulpha drugs .....	-	-	534,510	-	559,043
Sulphur .....	lb.	54,816	3,626	252,344	19,469
Sugar .....	"	4,191,788	326,770	4,578,700	361,054
Talc .....	"	815,731	28,535	491,946	15,613
Tartaric acid .....	"	615,485	167,115	582,531	219,925
Vitamins - A .....	-	-	328,064	-	374,473
B <sup>1</sup> (thiamin chloride) .....	-	-	138,382	-	98,020
B <sup>2</sup> (riboflavin) .....	-	-	351,640	-	116,935
C (ascorbic acid) .....	-	-	403,777	-	484,237
D .....	-	-	68,543	-	32,584
Wax - Beeswax .....	lb.	58,034	48,914	61,223	54,094
Paraffin .....	"	29,892	3,460	27,931	3,364
Other waxes .....	"	56,554	30,707	45,853	26,877
Bottles, boxes, labels, etc., and packing materials.....	-	-	11,279,820	-	11,693,993
All other materials and process supplies .....	-	-	14,715,608	-	17,911,282
<b>Total .....</b>	-	-	<b>33,819,677</b>	-	<b>38,009,475</b>

**TABLE 5. Production<sup>1</sup>, Imports and Exports of Medicinal and Pharmaceutical Preparations, 1947-1956**

Year	Production <sup>2</sup> (selling value at factory)	Imports	Exports
	\$	\$	\$
1947 .....	55,753,900	11,653,203	4,399,614
1948 .....	55,941,783	13,163,602	3,200,398
1949 .....	64,816,801	14,828,906	3,885,464
1950 .....	69,324,508	18,629,297	4,297,654
1951 .....	82,131,000	22,427,000	6,037,000
1952 .....	81,432,000	21,780,000	5,088,000
1953 .....	87,098,000	22,417,000	5,659,000
1954 .....	90,799,000	24,981,000	5,476,000
1955 .....	100,878,000	24,599,000	4,248,000
1956 .....	110,002,000	26,121,000	5,349,000

1. Production figures represent the total Canadian production, including some medicinals made in other industries.
2. Factory shipments since 1952.

TABLE 6. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Classified According to Type of Ownership, 1955 and 1956

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1955						
Individual ownership .....	26	52	82,510	5,378	98,671	274,163
Partnerships .....	11	49	98,839	4,236	120,564	331,742
Incorporated companies .....	173	7,528	23,755,701	861,412	33,600,442	107,515,829
<b>Total.....</b>	<b>210</b>	<b>7,629</b>	<b>23,937,050</b>	<b>871,026</b>	<b>33,819,677</b>	<b>108,121,734</b>
1956						
Individual ownership .....	26	49	89,650	5,865	111,193	306,484
Partnerships .....	10	120	278,463	9,251	225,867	682,530
Incorporated companies .....	176	7,632	25,585,100	908,897	37,672,415	121,603,206
<b>Total.....</b>	<b>212</b>	<b>7,801</b>	<b>25,953,213</b>	<b>924,013</b>	<b>38,009,475</b>	<b>122,592,220</b>

TABLE 7. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Grouped According to Selling Value of Factory Shipments, 1955 and 1956

Establishments reporting a value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1955						
Under \$10,000 .....	38	59	72,990	4,043	60,621	182,478
\$10,000 to \$24,999 .....	22	72	125,873	5,620	113,713	392,504
\$25,000 to \$49,999 .....	19	109	206,638	8,340	213,348	645,529
\$50,000 to \$99,999 .....	25	236	516,828	33,733	621,426	1,841,106
\$100,000 to \$199,999 .....	27	421	1,101,857	48,894	1,404,292	3,906,020
\$200,000 to \$499,999 .....	28	748	2,118,677	72,173	3,209,027	8,643,935
\$500,000 to \$999,999 .....	24	1,145	3,467,676	130,142	4,993,651	17,568,252
\$1,000,000 to \$4,999,999 .....	24	3,648	11,855,607	462,088	18,299,589	55,299,786
\$5,000,000 and over .....	3	1,150	4,332,300	105,993	4,904,010	19,642,124
Head offices .....	—	41	138,604	—	—	—
<b>Total.....</b>	<b>210</b>	<b>7,629</b>	<b>23,937,050</b>	<b>871,026</b>	<b>33,819,677</b>	<b>108,121,734</b>
1956						
Under \$10,000 .....	36	50	63,883	4,125	54,275	166,418
\$10,000 to \$24,999 .....	26	71	140,410	5,647	110,431	417,544
\$25,000 to \$49,999 .....	17	79	162,400	8,053	212,895	589,158
\$50,000 to \$99,999 .....	28	246	585,563	35,475	739,246	2,065,321
\$100,000 to \$199,999 .....	22	287	835,759	38,052	997,364	2,948,198
\$200,000 to \$499,999 .....	35	855	2,473,965	90,501	3,779,824	10,961,949
\$500,000 to \$999,999 .....	17	906	3,077,855	103,280	3,625,307	11,657,698
\$1,000,000 to \$4,999,999 .....	27	3,714	12,392,856	349,406	19,797,897	66,798,711
\$5,000,000 and over .....	4	1,571	6,127,122	289,474	8,692,236	26,987,223
Head offices .....	—	22	93,400	—	—	—
<b>Total.....</b>	<b>212</b>	<b>7,801</b>	<b>25,953,213</b>	<b>924,013</b>	<b>38,009,475</b>	<b>122,592,220</b>

**TABLE 8. Employees and Their Earnings in the Medicinal and Pharmaceutical Preparations Industry, 1955 and 1956**

Province	Number of employees				Total	Earnings		
	Supervisory and office		Production workers			Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
					\$	\$	\$	
<b>1955</b>								
Quebec .....	930	800	1,111	850	3,691	6,984,214	4,936,975	11,921,189
Ontario .....	621	657	1,147	1,300	3,725	5,194,998	6,344,399	11,539,397
Manitoba .....	25	29	44	29	127	137,388	175,276	312,664
British Columbia .....	17	9	8	20	54	73,550	47,546	121,096
Other provinces .....	10	3	9	10	32	20,177	22,527	42,704
<b>Canada .....</b>	<b>1,603</b>	<b>1,498</b>	<b>2,319</b>	<b>2,209</b>	<b>7,629</b>	<b>12,410,327</b>	<b>11,526,723</b>	<b>23,937,050</b>
<b>1956</b>								
Quebec .....	1,012	838	1,088	841	3,779	8,003,408	4,996,243	12,999,651
Ontario .....	632	724	1,150	1,326	3,832	5,662,485	6,792,603	12,455,088
Manitoba .....	22	26	35	29	112	139,734	171,369	311,103
British Columbia .....	15	5	10	18	48	74,813	69,565	144,378
Other provinces .....	8	4	8	10	30	20,035	22,958	42,993
<b>Canada .....</b>	<b>1,689</b>	<b>1,597</b>	<b>2,291</b>	<b>2,224</b>	<b>7,801</b>	<b>13,900,475</b>	<b>12,052,738</b>	<b>25,953,213</b>

**TABLE 9. Production Workers, by Months, 1955 and 1956**

Month	1955			1956		
	Male	Female	Total	Male	Female	Total
	Number					
January .....	2,285	2,129	4,414	2,305	2,207	4,512
February .....	2,276	2,138	4,414	2,313	2,212	4,525
March .....	2,257	2,173	4,430	2,303	2,203	4,506
April .....	2,266	2,190	4,456	2,299	2,216	4,515
May .....	2,288	2,211	4,499	2,282	2,187	4,469
June .....	2,306	2,216	4,522	2,264	2,195	4,459
July .....	2,330	2,172	4,502	2,249	2,159	4,408
August .....	2,401	2,268	4,669	2,339	2,255	4,594
September .....	2,360	2,253	4,613	2,324	2,293	4,617
October .....	2,338	2,253	4,591	2,300	2,308	4,608
November .....	2,364	2,279	4,643	2,296	2,272	4,568
December .....	2,354	2,230	4,584	2,236	2,211	4,447
<b>Average .....</b>	<b>2,319</b>	<b>2,209</b>	<b>4,528</b>	<b>2,291</b>	<b>2,224</b>	<b>4,515</b>

**TABLE 10. Capital and Repair Expenditures in the Medicinal and Pharmaceutical Preparations Industry, 1952-1956**

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						
1952 .....	535	1,728	2,263	342	799	1,141	3,404
1953 .....	810	1,481	2,291	331	909	1,240	3,531
1954 .....	2,788	2,053	4,841	391	988	1,379	6,220
1955 .....	3,695	2,210	5,905	371	969	1,340	7,245
1956 <sup>1</sup> .....	4,581	2,950	7,531	370	1,026	1,396	8,927

1. Preliminary.



TABLE 11. Imports into Canada and Exports of Medicinal and Pharmaceutical Preparations, 1955 and 1956

	Unit of measure	1955		1956	
		Quantity	\$	Quantity	\$
(a) Imports					
Caffeine, and salts of .....	lb.	126,852	334,875	186,025	414,343
Cocaine .....	oz.	1,115	12,640	1,220	14,648
Codeine, and salts of .....	"	119,471	590,582	92,693	455,296
Opium derivatives, n.o.p. ....	oz.	8,131	35,998	9,865	48,400
Opium .....	lb.	182	2,166	140	1,295
Quinine, salts of .....	oz.	100,578	34,005	63,457	20,985
Strychnine, and salts of .....	"	24,071	14,337	4,934	2,904
Preparations or chemicals, weed-killing .....	-	-	2,447,846	-	2,888,444
Nicotine, salts of nicotine; preparations containing nicotine in a free or combined state, for dipping, spraying or fumigating, n.o.p. ....	lb.	131,187	98,062	78,924	82,392
Chloropicrin, ethylene oxide, methyl bromide, methyl formate, cyanides, carbon bisulphide, or mixture containing any of these, for combating destructive insects or pests .....	-	-	105,241	-	82,612
Preparations or chemicals, non-alcoholic, such as are used for disinfecting, dipping, spraying or fumigating, when in packages not exceeding three pounds each in weight .....	-	-	363,605	-	419,539
Preparations or chemicals, non-alcoholic, for disinfecting, dipping, spraying or fumigating, n.o.p., or manufacturing the same .....	-	-	7,634,136	-	7,798,089
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, dry .....	-	-	6,508,326	-	7,152,207
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, liquid, when containing not more than 2½% of proof-spirit .....	-	-	1,486,061	-	1,669,074
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, all other .....	-	-	75,073	-	120,448
Menthol, natural or synthetic .....	-	-	341,615	-	143,173
Papaine .....	-	-	22,906	-	65,325
Spirits and strong waters of any kind, mixed with any ingredient or ingredients, and being known or designated as anodynes, elixirs, tinctures or medicines, n.o.p. ....	gal.	16,096	160,507	21,126	195,605
Non-alcoholic extract of cascara sagrada .....	-	-	33,116	-	19,271
Penicillin, and products of .....	-	-	695,087	-	862,035
Streptomycin, and products of .....	-	-	193,683	-	219,510
Sulpha drugs .....	-	-	524,295	-	564,820
Antibiotics, n.o.p. ....	-	-	2,885,313	-	2,880,637
<b>Total imports</b> .....	-	-	<b>24,599,475</b>	-	<b>26,121,052</b>
(b) Exports					
Dipping, spraying and insecticide compounds .....	-	-	55,401	-	403,230
Penicillin, and products of .....	-	-	428,905	-	164,215
Streptomycin, and products of .....	-	-	558,835	-	211,741
Antibiotics, n.o.p. ....	-	-	331,272	-	307,822
Medicinal and proprietary preparations .....	-	-	2,873,549	-	4,262,068
<b>Total exports</b> .....	-	-	<b>4,247,962</b>	-	<b>5,349,076</b>

Note: "n.o.p." means "not otherwise provided for" in the statistical classification.

**TABLE 12. Fuel and Electricity Used<sup>1</sup> in the Medicinal and Pharmaceutical Preparations Industry, 1956**

Kind	Unit of measure	Quantity	Cost at works
			\$
Bituminous coal (a) From Canadian mines .....	tons	1,035	14,613
(b) Imported.....	tons	5,778	69,702
Sub-bituminous coal .....	tons	54	877
Anthracite coal .....	tons	271	4,284
Lignite coal .....	tons	116	667
Gasoline (including gasoline used in cars and trucks) .....	imp. gals.	149,264	63,753
Fuel oil.....	imp. gals.	3,615,990	395,516
Gas (a) Liquefied petroleum gases.....	imp. gals.	7,099	2,197
(b) Other manufactured gases .....	1,000 cu. ft.	16,471	15,629
(c) Natural gas.....	1,000 cu. ft.	14,648	16,344
Other fuel .....	—	—	34,384
Electricity purchased.....	k.w.h.	27,696,744	306,047
<b>Total.....</b>	—	—	<b>924,013</b>

1. Last collected in this detail in 1953.

### Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1956

Name of firm	Location of plant
<b>Newfoundland:</b>	
Lilly, A. ....	56-58 Bond St., St. John's
McMurdo, T., Co., Ltd. ....	210 Water St., St. John's
Stafford, Dr. F., & Son Ltd. ....	166 Duckworth St., St. John's
<b>Nova Scotia:</b>	
Gates, C., Son & Co., Limited.....	Middleton
Minards Liniment Co. Ltd. ....	4 Jenkins St., Yarmouth
<b>New Brunswick:</b>	
Baird Co. Ltd., The .....	66 King St., Woodstock
Row and Company .....	St. Stephens
<b>Quebec:</b>	
Abbott Laboratories Limited .....	1350 Cote-de-Liesse Road, Outremont
Abbey Effervescent Salt Co., The .....	286 St. Paul St. W., Montreal
Accurate Mfg. Chemists Inc. ....	2625 Albert St., Montreal
Andal Laboratories Ltd. ....	St-Romuald
Anglo-French Drug Co. Ltd. ....	209 Ste. Catherine St. E., Montreal
Arex Co. (Enrg.) The.....	253 Wolfe St., Lauzon
Astan Chemical Co. Reg'd. ....	1555 St. Zotique St. E., Montreal
Ayerst, McKenna & Harrison, Limited .....	Montée St-Laurent, St-Laurent
Bliss, Alonzo O., Medical Co., The .....	434 St. Helen St., Montreal
Bristol Laboratories of Canada, Ltd. ....	286 St. Paul St. West, Montreal
Burroughs, Wellcome & Co. (Canada) Ltd. ....	60 Riverview Ave., Ville La Salle
Brunet, W., & Cie, Ltée .....	600 Blvd. Charest E., Quebec
Canada Drug Co. (Reg'd.) .....	857 St. Maurice St., Montreal
Casgrain & Charbonneau Ltd. ....	445 St. Lawrence Blvd., Montreal
Ciba Co., Ltd. ....	1235 McGill College Ave., Montreal
Cie des Produits Biologiques Europa Ltd. ....	397 St. Joseph Blvd. W., Montreal
Cie des Produits Homah Inc. ....	553 A Leclaire, Montreal
Cie Mathieu Limitée .....	14 Albert St., Sherbrooke
Cie Paula Ltée, La.....	21 St. Paul St. E., Montreal
Compagnie Pharmed Limitée .....	108 St. Paul St. W., Montreal

## Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1956 - Continued

Name of firm	Location of plant
<b>Quebec—concluded:</b>	
Compagnie Sorex Ltée, La.....	175 Third Ave., Quebec
Coopérative Farex Ltée. ....	406 Notre-Dame St. East, Montreal
Corporation Pharmaceutique Francaise, Ltée.....	200, rue Vallée, Montreal
Daillac Ltée.....	1405 Bishop St., Montreal
Dairy Association Reg'd.....	Rock Island
Davis & Lawrence Company (Canada) Ltd. ....	845 Chatham, Montreal
Delmar Chemicals Limited.....	50 Victoria St., Lachine
Denver Chemical Mfg. Co. ....	286 St. Paul St. W., Montreal
Desautels Laboratories Ltd. ....	200 Craig St. W., Montreal
Desbergers Limited.....	8490 St. Lawrence Blvd., Montreal
Dohow Chemical Co. Ltd., The.....	704 Notre-Dame St. W., Montreal
Ex-Lax Limited.....	8510 Jeanne Mance, Montreal
Familex Products Ltd. ....	1600 Delorimier St., Montreal
Fellows Medical Mfg. Co. Ltd. ....	286 St. Paul St. W., Montreal
Fortin, Charles.....	Robertsonville
Frasier, Thornton & Co. Ltd. ....	Cookshire
Frosst, Charles E., & Co. ....	3571 St. Antoine St. W., Westmount
Harris, J.A., Limited.....	4510 De la Roche St., Montreal
Herbo Remedies Reg'd,.....	3718 St. Denis St., Montreal
Hervay Remedies Ltd. ....	St. Basile
Hoffman-Laroche Limited.....	286 St. Paul St. W., Montreal
Horner, Frank W., Ltd. ....	5485 Ferrier St., Town of Mount Royal
Laboratoire Bilophen Laboratory Inc. ....	2650 Beaubien St. E., Montreal
Laboratoire Du. Cheptel Ltée. ....	810 Dupre, Beloeil
Laboratoire Demers Enrg. ....	414, rue St-Jean, Québec
Laboratoire Lancet Ltée.....	1615 Lagauchetière E., Montreal
Laboratoire Dr. Leo Lorrain, Ltee. ....	203 Place Youville, Montréal
Laboratoire Marois Limitée.....	29 Chemin D'Oka, St-Eustache
Laboratoire Martel.....	6201 Christophe Colomb St., Montreal
Laboratoire Montphar.....	2420 Notre-Dame St. E., Montreal
Laboratoire Nadeau Limitée.....	100 St. Paul St. W., Montreal
Laboratoire Octo. Ltée.....	920 Lecoc, Montreal
Laboratoire Ortho Medico Enrg. ....	1647 Fleury St. E., Montreal
Laboratoires St. Hubert Ltée.....	6631, rue St-André, Montréal
Laboratoire Vincent Inc. ....	999, ave de Salaberry, Montréal
Lacrois, F.X.....	62, rue St-Joseph ouest, Québec
Les Remèdes Faguet Inc. ....	883 Dessane, Lauzon
Lambert, Dr. J.O., Limitée.....	2234 St. Antoine St., Montreal
Laurentian Laboratoires, Ltd. ....	442 St. Gabriel St., Montreal
Leeming Miles Co. Ltd., The.....	6550 Upper Lachine Rd., Montreal
Mallinckrodt Chemical Works Limited.....	425 St. Patrick St., Ville La Salle
Matol Research Ltd. ....	162 St-Laurent, Quebec
Medicolab Inc.....	200 Craig st. W., Montreal
Menley & James Ltd. of Canada.....	5105 Cote-de-Liesse Rd., Montreal
Merck & Co. Ltd., (2 plants).....	560 De Courcelles St., Montreal and Valleyfield
Metro Drug Ltd. ....	7519 Boyer St., Montreal
Montreal Chemical and Specialities Co. ....	8477 St. Hubert St., Montreal
Mothersill Remedy Co. Ltd., The.....	132 St. James St. W., Montreal
Mowatt & Moore, Limited.....	64 Prince St., Montreal
Nirvana Compagnie Ltée.....	St-Romuald D'Etchemin, Montreal
Nordic Biochemicals Ltd. ....	4324 St. Lawrence Blvd., Montreal
North American Cyanamid Ltd. ....	5550 Royalmount Ave., Montreal
Pertussin Limited.....	250 St. Zotique St. W., Montreal
Polson, N.C., & Co. Ltd. ....	651 Notre-Dame St. W., Montreal
Poulenc Limitée.....	8580 Esplanade, Montréal
Produits Elca Enrg. ....	4150 Wellington St., Verdun
Produits Gardo Ltée.....	77, rue Principale, Waterloo
Produits Populex Ltée.....	5215 Berri, Montréal
Pratte Arthur N.....	2019 St. Timothée, Montréal
Rawleigh, W.T., Co. Ltd., The.....	4005 Richelieu St., Montréal
Robapharm (Canada) Ltd. ....	St-Jérôme
Rougier Frères Cie Inc. ....	2055 Fauard, Montréal
St. Germain, Les Médicaments.....	411 Laurier St. E., Montreal
Schering Corporation Ltd. ....	8370 Labarre St., Montreal
Smith-Kline and French Inter-America Corp. ....	300 Laurentian Blvd., ville St. Laurent
Squibb, E.R., & Sons of Canada Ltd. ....	2201 Côte-de-Liesse Rd., Montreal
Strong Cobb of Canada Ltd. ....	388 St. Paul St. West, Montreal
Super Vita Concentrates Inc. ....	300 St. Sacremont, Montreal
Valor Medica Inc. ....	100 St. Paul St. W., Montreal
Watkins, J.R., Co., The.....	350 St. Roch St., Montreal
White, A.J., & Co. Ltd.....	5105 Côte-de-Liesse Rd., Montreal

## Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1946 - Continued

Name of firm	Location of plant
<b>Ontario:</b>	
Accurate Laboratories.....	186½ King St., London
Allen & Hambury's Co. Ltd., The.....	Barter Rd., Toronto
Anglo-Canadian Drug Co. Ltd. ....	99 Simcoe St. S., Oshawa
Arner Co. Ltd., The.....	30 Niagara St., Fort Erie North
Astra Pharmaceuticals (Canada) Ltd. ....	1139 College St., Toronto 4
Austin Laboratories Ltd. ....	Guelph
Baxter Laboratories of Canada Ltd. ....	Willow St., Acton
Bell-Craig Limited.....	91 Oxford St., Toronto
Bell, Dr., Wonder Medicine Co. ....	210 Wellington St., Kingston
Brent Laboratories Ltd. ....	62 Avenue Rd., Toronto
British Drug House (Canada) Ltd. ....	Barclay Ave., Queensway, Toronto
Bromo-Seltzer Limited.....	727 King St. W., Toronto
Buckley, W.K., Ltd. ....	559 College St., Toronto
Canada Pharmacal Company Limited.....	447 Talbot St., London
Caulk, L.D., Co. of Canada, Ltd., The.....	172 John St., Toronto
Chase, Dr. A.W., Medicine Co. Ltd. ....	Oakville
Comstock, W.H., Co. Ltd. ....	11 Courthouse Ave., Brockville
Connaught Laboratories.....	University of Toronto, Toronto
Corbin Pharmaceuticals.....	91 Oxford St., Toronto
Cleveland's Drug Ltd. ....	2299 Dundas St. W., Toronto
Cummings, Charles C., & Company .....	2-8 Queen Elizabeth Blvd., Toronto.
Curry, H.E., Inc. ....	637 Main St. E., Hamilton
Druggists' Corporation, Limited.....	107-9 Duke St., Toronto
Eaton, T., Drug Co. Ltd., The.....	Hayter St., Toronto
Fidelity Pharmaceutical Co. Ltd. ....	161 Dupont St., Toronto
Fine Chemicals of Canada Limited.....	124 Pharmacy Ave., Toronto
Fleming Brothers Ltd. ....	Picton
Foster Dack Co. Ltd. ....	337 King St. W., Toronto
Galt Chemical Products Ltd. ....	Corner Beverly and Kerr Sts., Galt
Hanford, C.C., Mfg. Co. Ltd. ....	Kingston Rd. W., Brockville
Hartz, J.F., Co. Ltd., The.....	32 Grenville St., Toronto
Home-makers Products (Canada) Ltd. ....	36 Caledonia Rd., Toronto
Ingram & Bell Ltd. ....	256 McCaul St., Toronto
Jamieson, C.E., & Co. (Dominion) Ltd. ....	414 Riverside Drive, Windsor
Kleerex Manufacturing Co. ....	2028 Harvest Dr., Port Credit
Koegler Laboratories.....	22 McDougall Ave., Waterloo
Lewis-Howe Company.....	1415 Janette Ave., Windsor
Lilly, Eli, and Company, Canada, Ltd. ....	3650 Danforth Ave., Toronto
Lograsso, P. ....	464 Winona Drive, Toronto
Lusco Products Limited.....	559 Bathurst St., Toronto
McAlpine Pharmaceutical Ltd. ....	779 Vaughn Rd., Toronto
Maltby Bros. Ltd. ....	1126 Castlefield, Toronto
Marlatt, G.W., & Company.....	73 Nipigon, Willowdale
Marz Laboratories Ltd. ....	Highway 39, Tecumseh.
Mentholatum Inter-American Inc., The.....	20 Lewis St., Fort Erie N.
Merrell, Wm. S., Co. ....	178 Talbot St., St. Thomas
Milburn, T., Co. Ltd., The.....	643 King St. W., Toronto
Miles Laboratories Ltd. ....	1131 Bloor St. W., Toronto
Moore-Thompson-Clinger Ltd. ....	153 King William St., Hamilton
Mulveney's, R.L., Remedies Ltd. ....	199 Ossington Ave., Toronto
Nivea Pharmaceuticals Limited.....	253 Spadina Rd., Toronto
Nixon Laboratories Ltd. ....	Orangeville
Northrop & Lyman Co. Ltd. ....	462-65 Wellington St. W., Toronto
Norwich Pharmacal Co. Ltd. ....	36-48 Caledonia Rd., Toronto
Novocol Chemical Mfg. Co. of Canada, Ltd. ....	11 Grenville St., Toronto
Noxema Chemical Co. of Canada, Ltd., The.....	77 Park Lawn Road, Toronto
Ortho Pharmaceutical Corp. (Canada) Limited.....	19 Green Belt Dr., Toronto
Ottway, C., Ltd. ....	514 Danforth Ave., Toronto
Parke, Davis & Co. Ltd. ....	Brockville
Parke and Parke Ltd. ....	18 Market Square, Hamilton
Penslar Co., The.....	325 Devonshire Road, Walkerville
Pharmo Products Ltd. ....	2 A Ellerbeck St., Toronto
Pinex Co., The.....	482 Wellington St. W., Toronto
Pinkham, Lydia E., Medicine Co. ....	University Ave., Cobourg
Powell, H., Chemical Co. Ltd., The.....	1 Lambert St., Bowmanville
Private Brand Packagers Limited.....	43 Hollinger Rd., Toronto
Procol Mfg. Co. Ltd. ....	161 Dupont St., Toronto
Queduc Remedies.....	46 Ware St., Peterborough
Rexall Drug Company Limited.....	68 Broadview Ave., Toronto
Ritchie, Harold F., & Company Ltd. ....	1860 Wilson Ave., Weston
Robert's Biological Laboratory Ltd. ....	331 Barlett Ave., Toronto
Rolls & Darlington Ltd. ....	419 Coxwell Ave., Toronto
Rundle, Geo. H., & Son Co. Ltd., The.....	Pitt St. and Dougal Ave., Windsor

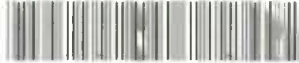
## Directory of Firms in the Medicinal and Pharmaceutic Preparations Industry, 1956 - Concluded

Name of firm	Location of plant
<b>Ontario—Concluded:</b>	
Saunders, W.E., Ltd. ....	186 King St., Windsor
Scherer, R.P., Ltd. ....	1370 Argyle Road, Windsor
Searle, G.D. & Co. Of Canada Ltd. ....	247 Queen St. E., Toronto
Shaw Research.....	Omeme
Shuttleworth, E.B., Ltd. ....	525 Logan Ave., Toronto
Siroil of Canada Ltd. ....	152 Pitt St. W., Windsor
Standard Tabletting Co. Ltd. ....	2 Queen Elizabeth Blvd., Toronto
Sterling Drug Mfg. Ltd. ....	1019 Elliott St. W., Windsor
Stevens, J., & Son Co., Ltd. ....	145 Wellington St. W., Toronto
Supreme Drug Ltd. ....	36 Northline Rd., Toronto
Sutcliffe & Bingham of Canada, Ltd. ....	1 Niagara St., Toronto
Sybilla Spake Medicine Co. ....	146 Duke St. E., Kitchener
Templetons Limited ....	56 Colborne St., Toronto
Vick Chemical Inc. ....	180 Talbot St., St. Thomas
Wampole, Henry K., & Co. Ltd. ....	Perth
Warner-Lambert Canada Ltd. ....	727 King St. W., Toronto
Warren-McDonald Co., The ....	Mallorytown
Webber Pharmaceuticals Ltd. ....	393 Weston Rd., Toronto
West, Ernest P. ....	25 Davenport Road, Toronto
Will, Charles R., & Co. Ltd. ....	571 Richmond St. N., London
Wood, W. Lloyd, Ltd. ....	64 Gerrard St. E., Toronto
Wyeth, Hohn, & Bro. (Canada) Ltd. ....	2109 Ottawa St., Windsor
<b>Manitoba:</b>	
Bonzoe Products .....	50 Gertie St., Winnipeg
Dominion Chemical Laboratories .....	44 Austin St., Winnipeg
Fairney, Dr. Peter, & Sons Co. ....	256 Stanley St., Winnipeg
National Drugs Ltd. ....	1586 Wall St., Winnipeg
Rawleigh, W.T., Co. Ltd., The .....	589 Henry Ave., Winnipeg
Watkins, J.R., Co., The .....	Annabella and E. Higgins Sts., Winnipeg
Dr. White Medicine Co. Ltd. ....	901 Corydon Ave., Winnipeg
<b>Alberta:</b>	
Harris Wondro Limited .....	1742-10th Ave., West, Calgary
<b>British Columbia:</b>	
Adams Pharmal Ltd. ....	8014 Granville, Vancouver
Gilead Mfg. Co. ....	157 Strathcona Rd., Chilliwack
Greens A.N.R. Ltd. ....	2014 Douglas St., Victoria
Kent Chemicals Ltd. ....	1292 Franklin St., Vancouver
Nephron Agency of Canada .....	3477 Kingsway, Vancouver
Pacific Pharmaco Co. Ltd. ....	1051 Robson St., Vancouver
Palfenier, J.C. (Bronkit Co.) .....	1817 McSpadden, Vancouver
Shirley Laboratories .....	1012 Harwood St., Vancouver
Springwood Products Ltd. ....	Saanichton
Urist Chemical Laboratories .....	696 Clark Drive, Vancouver
Western Wholesale Drug Ltd. ....	456 Broadway West, Vancouver





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