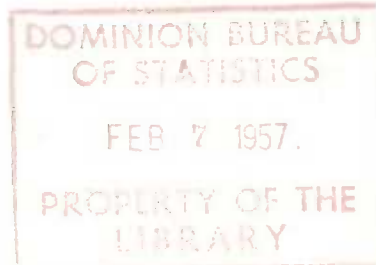


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**THE MEDICINAL AND PHARMACEUTICAL
PREPARATIONS INDUSTRY
1955**



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DOMINION BUREAU OF STATISTICS
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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¢
 - Section E. Prairie Provinces, 40¢
 - 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 – Textile Mills
- VIII – Knitting Mills
- 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¢
- 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 MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDUSTRY, 1955

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 \$108,121,734 in 1955, an increase of 11 per cent over the comparable figure of \$97,395,558 in 1954.

Of the 210 factories in this group in 1955, 93 were located in Quebec, 92 in Ontario, 9 in British Columbia, 7 in Manitoba, 3 in Nova Scotia, 3 in Newfoundland, 2 in Alberta and 1 in New Brunswick. The total number of employees in 1955 was 7,629 compared with 7,380 in the previous year, and payments in salaries and wages amounted to \$23,937,050 as against \$22,648,147 in 1954. Plants in Ontario

accounted for 49 per cent of the Canadian output, while concerns in Quebec produced 48 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 \$100,878,000 in 1955 compared with \$90,799,000 in 1954 and \$87,098,000 in 1953.

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 1955 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 for 1954 and 1955.

TABLE 1. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Significant Years 1929-55, and by Provinces, 1954 and 1955

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 ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	140	2,849	3,672,373	110,065	6,300,894	12,627,935	19,038,894
1933	158	3,169	3,850,928	130,616	5,774,391	11,158,842	17,063,849
1937	174	4,296	5,311,120	175,551	8,808,929	15,830,167	24,814,647
1939	174	4,388	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	36,978,645	60,330,928
1946	201	7,670	12,832,173	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
1951	206	7,481	18,917,850	719,135	28,414,566	60,115,166	89,248,867
1952	213	7,457	20,481,873	751,605	27,350,129	59,920,653	88,022,387
1953	217	7,492	21,758,651	822,438	30,716,172	62,018,558	93,557,168
1954							
Newfoundland	3	13	12,840	962	33,787	25,218	58,464
Nova Scotia	3	14	23,539	832	52,048	138,544	190,949
Quebec	96	3,579	11,179,099	522,299	15,220,534	31,147,896	46,522,965
Ontario	94	3,599	11,009,755	319,266	15,242,872	33,874,563	48,653,483
Manitoba	9	126	304,246	11,473	537,326	1,015,118	1,564,954
British Columbia	8	43	111,038	8,907	156,861	191,195	367,762
New Brunswick	1	6	7,630	1,160	14,310	21,511	36,981
Alberta	2						
Canada	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	871,026	33,819,677	72,703,379	108,121,734

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. Inventories¹, 1955

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Newfoundland	15,279	1,544	5,240	22,063
Nova Scotia	27,572	—	9,708	37,280
Quebec	4,851,877	3,430,464	4,230,805	12,513,146
Ontario	4,656,443	1,977,123	5,731,181	12,364,747
Manitoba.....	290,571	19,727	227,025	537,323
British Columbia.....	128,230	7,012	29,508	164,750
New Brunswick and Alberta	—	—	—	—
Canada	9,969,972	5,435,870	10,233,467	25,639,309
Closing:				
Newfoundland	17,633	1,300	3,987	22,920
Nova Scotia	21,035	—	6,796	27,831
Quebec	5,263,894	3,098,739	4,516,230	12,878,863
Ontario	4,711,704	3,727,437	4,747,064	13,186,205
Manitoba.....	293,934	30,017	205,182	529,133
British Columbia.....	143,249	4,860	26,556	174,665
New Brunswick and Alberta	—	—	—	—
Canada	10,451,449	6,862,353	9,505,815	26,819,617

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 1955 does not necessarily agree with the closing inventory for 1954 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, 1954 and 1955

Product	Value of factory shipments	
	1954	1955
	\$	\$
Medicines and pharmaceuticals:		
Registered as patent medicines and sold without all ingredients declared.....	18,113,729	20,662,199
Antibiotics and preparations:		
Penicillin preparations	2,366,945	2,251,097
Streptomycin preparations	103,784	150,727
Penicillin-streptomycin combinations	1,498,223	1,087,345
Other antibiotics and preparations thereof ²	7,070,409	8,225,151
Sex hormones.....	2,098,008	2,475,971
Sulphonamide (sulpha) preparations with or without other active ingredients.....	1,318,821	1,676,990
Vitamins and preparations:		
Vitamins in bulk	3	3
Vitamin preparations in which the principal active ingredients are vitamins	12,354,717	13,421,261
Biologicals and vaccines	4,820,692	4,423,808
Oral antiseptics	774,578	719,464
Ethical specialties for human use, not elsewhere specified	29,575,961	36,837,450
All other human medicines	8,263,889	5,953,528
Veterinary medicines	1,684,794	2,056,769
Disinfectants	123,813	203,142
Insecticides.....	364,334	335,056
Flavouring extracts	455,096	477,207
Toilet preparations.....	3,972,744	4,810,842
All other products ¹	2,435,021	2,353,727
Total.....	97,395,558	108,121,734

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, 1954 and 1955

Material	Unit of measure	1954		1955	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Acetanilid	lb.	7,932	4,179	6,851	3,455
Acetic acid (as 99½%)	"	24,629	3,576	28,642	4,141
Acetone	"	881,493	87,948	853,756	80,869
Acetylsalicylic acid	"	597,402	342,046	674,888	373,935
Benzoic acid	"	5,611	2,785	7,806	4,147
Boric or boracic acid	"	116,536	13,046	94,374	11,024
Chalk, ground	"	55,183	3,255	77,897	5,102
Chalk, precipitated	"	530,913	26,902	285,192	14,270
Citric acid	"	436,362	133,808	416,852	118,156
Bismuth metal	"	19,094	45,433	41,400	93,196
Bismuth salts	"	14,168	50,663	17,330	57,617
Caffeine	"	26,599	84,576	31,340	97,643
Camphor	"	51,880	31,141	55,682	37,546
Castor oil	"	54,174	12,929	44,019	9,918
Cod liver oil	"	426,809	96,091	472,404	108,021
Essential oils	—	—	197,813	—	229,530
Ether, sulphuric	lb.	58,962	11,782	45,450	8,479
Ethyl alcohol (including tax)	Imp. gal.	227,768	535,086	208,425	493,610
Gelatine capsules (for use in compounding)	—	—	308,131	—	333,369
Glucose	lb.	851,291	62,807	1,102,987	88,708
Glycerine, refined	"	877,731	315,281	906,921	328,628
Gums —Arabic	"	115,544	21,449	136,091	30,263
Karoya	"	114,057	27,027	103,194	26,791
Other	"	37,339	26,200	18,203	27,646
Iodine, crude	"	103,863	124,471	94,269	131,294
Herbs, roots and vegetable drugs:					
Raw or crude (ground or milled)	—	—	333,989	—	331,050
Extracts (powders and liquids)	—	—	222,224	—	197,716
Hydrochloric acid	lb.	28,657	3,903	37,947	3,897
Isopropyl alcohol	"	367,315	38,887	361,208	39,329
Lanolin	"	73,273	21,887	67,572	18,874
Magnesium sulphate (Epsom salts)	"	976,324	33,134	1,009,634	34,228
Malt extract	"	377,179	52,848	360,509	49,529
Menthol	"	21,114	97,319	22,360	117,541
Mercury metal	"	45,269	133,524	33,781	119,088
Methyl alcohol (methyl hydrate)	Imp. gal.	63,536	55,192	86,170	53,224
Mineral oil, white	lb.	1,374,418	147,590	1,574,022	164,737
Nitric acid	"	21,196	2,428	29,010	3,741
Paradichlorobenzene	"	146,402	21,197	135,004	19,017
Penicillin	—	—	546,812	—	619,391
Petroleum jelly	lb.	974,413	89,038	1,146,920	104,296
Phenacetin	"	145,477	156,758	150,042	160,222
Phenobarbital and other barbiturates	"	26,952	143,438	29,147	156,205
Phenol (carbolic acid)	"	3,757	2,358	6,048	2,867
Potassium iodide	"	56,084	81,577	45,323	70,719
Potassium sodium tartrate (Rochelle salt)	"	19,466	5,007	17,524	4,752
Pyrethrum	"	1,156	743	1,246	744
Silver bullion	troy oz.	257,510	214,904	212,942	186,582
Sodium bicarbonate	lb.	1,421,660	50,624	1,535,008	54,418

TABLE 4. Materials Used in the Medicinal and Pharmaceutical Preparations Industry, 1954 and 1955 - Concluded

Material	Unit of measure	1954		1955	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Sodium bromide	lb.	46,788	13,212	63,496	17,404
Sodium hydroxide	"	2,230,567	42,196	2,203,318	42,713
Sodium salicylate	"	11,917	7,333	12,428	7,463
Sodium sulphate	"	33,532	4,033	73,577	7,348
Starch	"	680,796	55,265	663,365	55,111
Stearic acid	"	208,833	35,389	183,321	30,632
Sulpha drugs	-	-	422,414	-	534,510
Sulphur	lb.	43,420	2,779	54,816	3,626
Sugar	"	3,925,206	307,548	4,191,788	326,770
Talc	"	703,455	24,729	815,731	28,535
Tartaric acid	"	460,076	137,973	615,485	167,115
Vitamins - A	-	-	378,581	-	328,064
B ¹ (thiamin chloride)	-	-	173,160	-	138,382
B ² (riboflavin)	-	-	365,641	-	351,640
C (ascorbic acid)	-	-	373,511	-	403,777
D	-	-	43,072	-	68,543
Wax - Beeswax	lb.	46,454	34,544	58,034	48,914
Paraffin	"	31,068	3,445	29,892	3,460
Other waxes	"	75,276	39,530	56,554	30,707
Bottles, boxes, labels, etc., and packing materials	-	-	10,305,385	-	11,279,820
All other materials and process supplies	-	-	13,464,192	-	14,715,608
Total	-	-	31,257,738	-	33,819,677

TABLE 5. Production¹, Imports and Exports of Medicinal and Pharmaceutical Preparations, 1946-1955

Year	Production ² (selling value at factory)	Imports	Exports
	\$	\$	\$
1946	54,323,766	9,370,879	5,342,618
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

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, 1954 and 1955

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.	\$	\$	\$	\$
1954						
Individual ownership	30	86	135,862	7,310	172,897	489,467
Partnerships	11	49	100,590	4,904	112,912	324,809
Incorporated companies	175	7,245	22,411,695	852,584	30,971,929	96,581,282
Total	216	7,380	22,648,147	864,798	31,257,738	97,395,558
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
Total	210	7,629	23,937,050	871,026	33,819,677	108,121,734

TABLE 7. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Grouped According to Size of Establishment, 1954 and 1955

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.	\$	\$	\$	\$
1954						
Under \$10,000	41	61	72,928	4,273	60,369	181,016
\$10,000 to \$24,999	28	87	159,560	8,157	127,775	450,844
\$25,000 to \$49,999	18	111	209,187	7,287	230,739	676,582
\$50,000 to \$99,999	28	265	640,639	39,189	667,422	2,050,642
\$100,000 to \$199,999	26	420	1,044,315	46,534	1,236,442	3,718,723
\$200,000 to \$499,999	24	673	1,747,976	61,802	2,581,647	7,348,367
\$500,000 to \$999,999	25	1,213	3,603,332	142,320	5,327,096	17,338,832
\$1,000,000 to \$4,999,999	22	3,012	9,547,286	264,985	14,233,803	41,864,415
\$5,000,000 and over	4	1,520	5,521,479	290,352	6,792,445	23,766,137
Head offices	—	18	101,445	—	—	—
Total	216	7,380	22,648,147	864,899	31,257,738	97,395,558
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	—	—	—
Total	210	7,629	23,937,050	871,026	33,819,677	108,121,734

TABLE 8. Employees and Their Earnings in the Medicinal and Pharmaceutical Preparations Industry, 1954 and 1955

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1954								
Quebec	886	757	1,102	834	3,579	6,376,065	4,803,034	11,179,099
Ontario	582	676	1,100	1,241	3,599	5,054,142	5,955,613	11,099,755
Manitoba	23	29	38	36	126	125,173	179,073	304,246
British Columbia	11	8	7	17	43	66,830	44,208	111,038
Other provinces	10	4	10	9	33	21,782	22,227	44,009
Canada	1,512	1,474	2,257	2,137	7,380	11,643,992	11,004,155	22,648,147
1955								
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
Canada	1,603	1,498	2,319	2,209	7,629	12,410,327	11,526,723	23,937,050

TABLE 9. Production Workers, by Months, 1954 and 1955

Month	1954			1955		
	Male	Female	Total	Male	Female	Total
	Number					
January	2,291	2,176	4,467	2,285	2,129	4,414
February	2,292	2,162	4,454	2,276	2,138	4,414
March	2,294	2,163	4,457	2,257	2,173	4,430
April	2,278	2,156	4,434	2,266	2,190	4,456
May	2,279	2,144	4,423	2,288	2,211	4,499
June	2,289	2,156	4,445	2,306	2,216	4,522
July	2,196	2,099	4,295	2,330	2,172	4,502
August	2,253	2,135	4,388	2,401	2,268	4,669
September	2,246	2,139	4,385	2,360	2,253	4,613
October	2,245	2,158	4,403	2,338	2,253	4,591
November	2,231	2,125	4,356	2,364	2,279	4,643
December	2,246	2,072	4,318	2,354	2,230	4,584
Average	2,257	2,137	4,394	2,319	2,209	4,528

TABLE 10. Capital and Repair Expenditures in the Medicinal and Pharmaceutical Preparations Industry, 1951-1955

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						
1951	1,047	1,745	2,792	333	728	1,061	3,853
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 ¹	4,038	2,117	6,155	300	1,022	1,322	7,477

1. Preliminary.

TABLE 11. Imports into Canada and Exports of Medicinal and Pharmaceutical Preparations, 1954 and 1955

	Unit of measure	1954		1955	
		Quantity	\$	Quantity	\$
(a) Imports					
Caffeine, and salts of	lb.	3,462	7,986	126,852	334,875
Cocaine	oz.	1,898	28,391	1,115	12,640
Codeine, and salts of	"	139,745	703,524	119,471	590,582
Opium derivatives, n.o.p.	oz.	12,178	49,472	8,131	35,998
Opium	lb.	105	1,091	182	2,166
Quinine, salts of	oz.	76,254	25,231	100,578	34,005
Strychnine, and salts of	"	9,155	6,871	24,071	14,337
Preparations or chemicals, weed-killing	-	-	2,627,100	-	2,447,846
Nicotine, salts of nicotine; preparations containing nicotine in a free or combined state, for dipping, spraying or fumigating, n.o.p.	lb.	93,090	90,247	131,187	98,062
Chloropicrin, ethylene oxide, methyl bromide, methyl formate, cyanides, carbon bisulphide, or mixture containing any of these, for combating destructive insects or pests	-	-	115,171	-	105,241
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	-	-	372,058	-	363,605
Preparations or chemicals, non-alcoholic, for disinfecting, dipping, spraying or fumigating, n.o.p., or manufacturing the same	-	-	7,108,322	-	7,634,136
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, dry	-	-	6,066,234	-	6,508,326
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, liquid, when containing not more than 2½% of proof-spirit	-	-	1,363,126	-	1,486,061
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, all other	-	-	90,338	-	75,073
Menthol, natural or synthetic	-	-	212,216	-	341,615
Papaine	-	-	55,766	-	22,906
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.	12,216	102,872	16,096	160,507
Non-alcoholic extract of cascara sagrada	-	-	9,015	-	33,116
Penicillin, and products of	-	-	1,136,890	-	695,087
Streptomycin, and products of	-	-	251,861	-	193,683
Sulpha drugs	-	-	528,389	-	524,295
Antibiotics, n.o.p.	-	-	4,028,576	-	2,885,313
Total imports	-	-	24,980,747	-	24,599,475
(b) Exports					
Dipping, spraying and insecticide compounds	-	-	183,855	-	55,401
Penicillin, and products of	-	-	742,554	-	428,905
Streptomycin, and products of	-	-	562,586	-	558,835
Antibiotics, n.o.p.	-	-	537,587	-	331,272
Medicinal and proprietary preparations	-	-	3,449,145	-	2,873,549
Total exports	-	-	5,475,727	-	4,247,962

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

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1955

Name of firm	Location of plant
Newfoundland:	
Lilly, A.	66 Water 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
Nova Scotia:	
Gates, C., Son & Co., Limited	Middleton
Minards Liniment Co. Ltd.	4 Jenkins St., Yarmouth
Row & Company	Parrsboro
New Brunswick:	
Baird Co. Ltd., The	66 King St., Woodstock
Quebec:	
Abbott Laboratories Limited.....	1350 Côte-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
Chesebrough Mfg. Co., Consolidated.....	5520 Chabot Ave., 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 Paula Ltée, La	21 St. Paul St. E., Montreal
Compagnie J.L. Mathieu Ltée.....	14 Albert St., Sherbrooke
Compagnie Pharmec Limitée.....	108 St. Paul St. W., Montreal
Compagnie Sorex Ltée, La	175 Third Ave., Quebec
Coopérative Farex Ltée.....	406 Notre-Dame St. East, Montreal
Corporation Pharmaceutique Francaise, Ltée	200, rue Valée, Montréal
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
Famlex 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
International Dental Mfrs. (Canada) Ltd.	479 Champ-de-Mars, Montreal
Kress & Owen Co. Of Canada Ltd.	425 River St., Montreal
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, Ltée.	203 Place Youville, Montréal
Laboratoire Marois Limitée	29 Chemin D'Oka, St-Eustache
Laboratoire Martel	6201 Christophe Colomb St., Montreal

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1955 - Continued

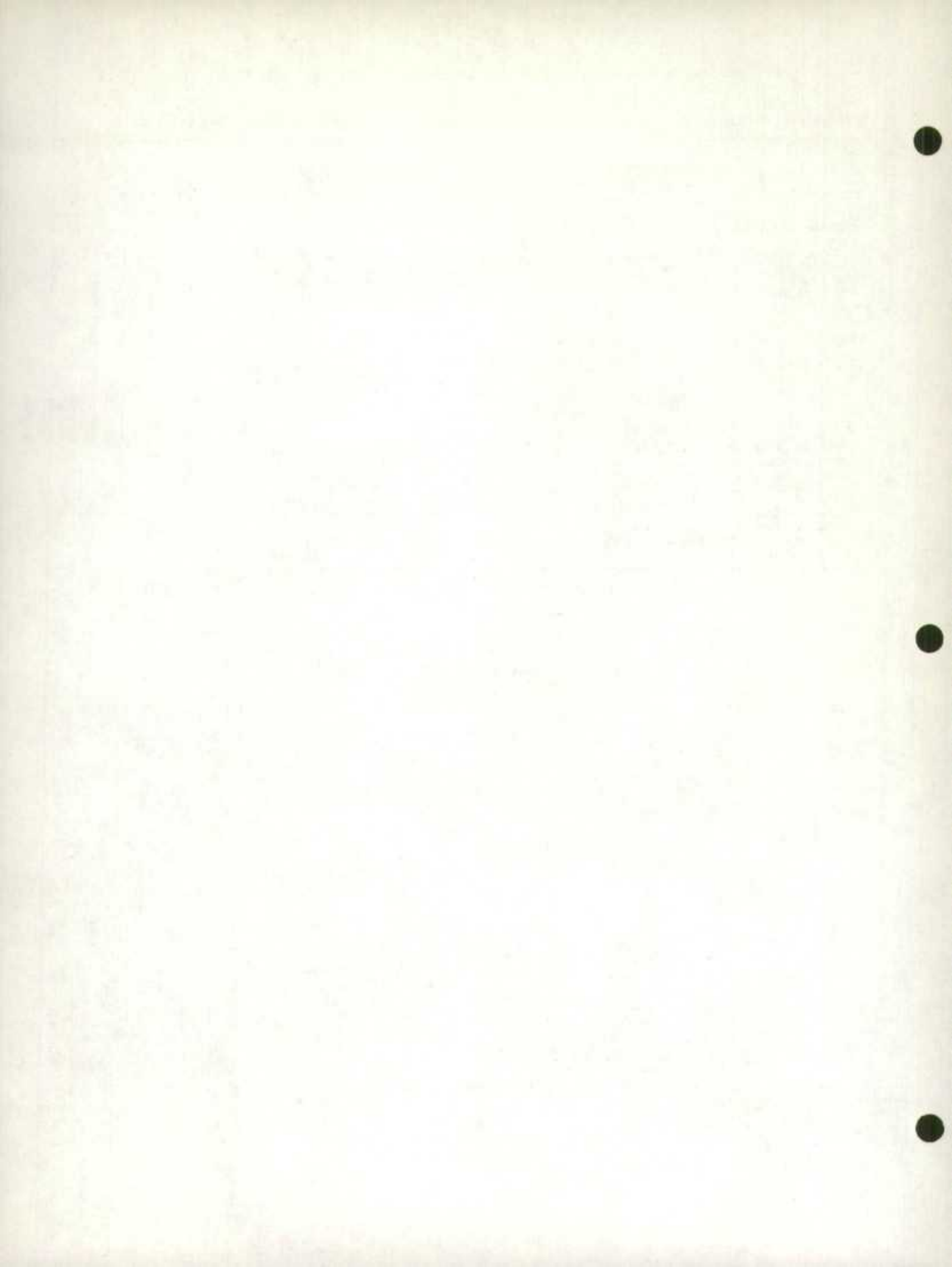
Name of firm	Location of plant
Quebec—concluded:	
Laboratoire Montphar.....	2420 Notre-Dame St. E., Montreal
Laboratoire Nadeau Limitée.....	100 St. Paul St. W., Montreal
Laboratoire Octo. Ltée.....	920 Lecoc, Montreal
Laboratoire Ortho Medico Enrg.....	1647 Fleury St. E., Montreal
Laboratoires St. Hubert 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 Côte-de-Liesse Rd., Montreal
Merck & Co. Ltd., (2 plants).....	560 De Courcelles St., Montreal and Valleyfield
Metro Drug Ltd.....	7519 Boyer St., Montreal
Mothersill Remedy Co. Ltd., The.....	132 St. James St. W., Montreal
Mowatt & Moore, Limited.....	64 Prince St., Montreal
Niruana 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
Poison, N.C., & Co. Ltd.....	651 Notre-Dame St. W., Montreal
Poulenc Limitée.....	204 Place Youville, Montréal
Produits Elca Enrg.....	4150 Wellington St., Verdun
Produits Gardo Ltée.....	77, rue Principale, Waterloo
Produits Populex Ltée.....	5215 Berri, Montréal
Pratt, Arthur N.....	2019 St. Timothee, Montréal
Rawleigh, W.T., Co. Ltd., The.....	4005 Richelieu St., Montreal
Robapharm (Canada) Ltd.....	St-Jérôme
Rougier Frères Cie Inc.....	350 LeMoynes, Montreal
St. Germain, Les Médicaments.....	411 Laurier St. E., Montreal
Schering Corporation Ltd.....	137 St. Peter St., Montreal
Smith-Kline and French Inter-America Corp.....	300 Laurentian Blvd., Ville St. Lauren
Squibb, E.R., & Sons of Canada Ltd.....	2201 Côte-de-Liesse Rd., Montreal
Strong Cobb of Canada Ltd.....	388 St. Paul St. West, Montreal
Valor Medica Inc.....	100 St. Paul St. W., Montreal
Watkins, J.R., Co., The.....	350 St. Roch St., Montréal
White, A.J., & Co. Ltd.....	5105 Côte-de-Liesse Rd., Montreal
Ontario:	
Accurate Laboratories.....	186½ King St., London
Allen & Hambury's Co. Ltd., The.....	Bartor 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.....	108 Clarence St., Kingston
Brent Laboratories Ltd.....	62 Avenue Rd., Toronto
British Drug House (Canada) Ltd.....	Barclay Ave., Queensway, Toronto
Bromo-Seltzer Limited.....	1266 Queen 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
Cleveland's Drug Ltd.....	2299 Dundas St. W., Toronto
Cummings, Charles C., & Company.....	2107 Dundas St. W., 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
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

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1955 - Continued

Name of firm	Location of plant
Ontario—concluded:	
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
Lambert Pharmacal Company (Canada) Limited	2000 Eglinton Ave. E., Toronto
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
Marlatt, G.W., & Company	73 Nipigon, Newtonbrook
Marz Laboratories Ltd.	673 Caron Ave., Windsor
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.	1010 Dufferin St., Toronto
Moore-Thompson-Clinger Ltd.	153 King William St., Hamilton
Mulveney's, R.L., Remedies Ltd.	211 Ossington Ave., Toronto
Nivea Pharmaceuticals Limited	253 Spadina Rd., Toronto
Nixon Laboratories Ltd.	Orangeville
Northrop & Lyman Co. Ltd.	462-66 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.	2301 Riverside Dr., Walkerville
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.	310 Bloor St. W., 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
Saunders, W.E., Ltd.	186 King St., Windsor
Scherer, R.P., Ltd.	1370 Argyle Road, Windsor
Shaw Research	Omeme
Shuttleworth, E.B., Ltd.	525 Logan Ave., Toronto
Sharp & Dohme (Canada) Ltd.	1100 O'Connor Drive, Toronto
Siroil of Canada Ltd.	152 Pitt St. W., Windsor
Standard Tableting 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, Wm. R., & Co. 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
Manitoba:	
Bonzoe Products	50 Gertie St., Winnipeg
Dominion Chemical Laboratories	44 Austin St., Winnipeg
Fahrney, Dr. Peter, & Sons Co.	256 Stanley St., Winnipeg

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1955 - Concluded

Name of firm	Location of plant
Manitoba—concluded:	
National Drugs Ltd.	576 McDermot 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.	1380 Notre-Dame Ave., Winnipeg
Alberta:	
Harris Wondro Limited	1742-10th Ave., West, Calgary
McIntyre, John C., & Son.....	10022-102nd Street, Edmonton
British Columbia:	
Gilead Mfg. Co.	157 Strathcona Rd., Chilliwack
Kent Chemicals Ltd.	1292 Franklin St., Vancouver
Nephron Agency of Canada	3477 Kingsway, Vancouver
Pacific Pharmaco Co. Ltd.	144 Water 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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