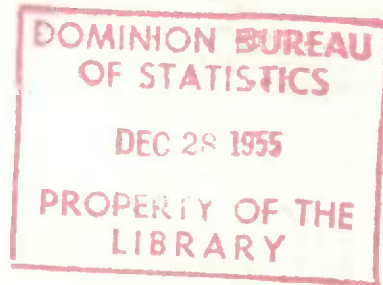


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THE MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDUSTRY

1954



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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, 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—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, 1954

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 \$97,395,558 in 1954, an increase of 4.1 per cent over the comparable figure of \$93,557,168 in 1953.

Of the 216 factories in this group in 1954, 96 were located in Quebec, 94 in Ontario, 9 in Manitoba, 8 in British Columbia, 3 in Nova Scotia, 3 in Newfoundland, 2 in Alberta and 1 in New Brunswick. The total number of employees in 1954 was 7,380, compared with 7,492 in the previous year, and payments in salaries and wages amounted to \$22,648,147 as against \$21,758,651 in 1953. Plants

in Ontario accounted for 50 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 \$90,799,000 in 1954, compared with \$87,038,000 in 1953 and \$81,432,000 in 1952.

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, 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 figure for 1954.

TABLE 1. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Significant Years 1929-54, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	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	3,572,373	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	15,330,167	24,814,647
1939	174	4,388	5,906,891	199,899	9,804,525	17,179,838	27,134,262
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
1950	210	7,524	16,637,745	652,909	24,621,090	51,098,692	76,372,691
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							
Newfoundland	3	12	12,790	1,134	32,789	29,137	63,060
Nova Scotia	3	14	21,507	777	50,577	136,679	188,033
Quebec	98	3,621	10,834,252	509,159	15,362,693	28,271,136	44,142,988
Ontario	92	3,657	10,469,491	294,223	14,570,804	32,307,552	47,172,579
Manitoba	9	135	306,412	11,667	544,425	1,077,217	1,633,309
British Columbia	9	47	106,209	4,358	141,554	176,216	322,128
New Brunswick	1	6	7,990	1,120	13,330	20,621	35,071
Alberta	2						
Canada	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

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, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Newfoundland	17,098	1,484	3,737	22,319
Nova Scotia	33,287	—	9,158	43,045
Quebec	4,299,434	2,343,442	4,584,179	11,227,055
Ontario	4,599,831	2,202,005	4,977,271	11,779,107
Manitoba	286,302	27,683	230,398	544,383
British Columbia	143,171	4,719	40,209	188,099
New Brunswick and Alberta	—	—	—	—
Canada	9,379,723	4,579,333	9,844,952	23,804,008
Closing:				
Newfoundland	15,279	1,544	5,240	22,063
Nova Scotia	26,971	—	9,633	36,604
Quebec	4,849,137	3,447,733	4,951,943	13,248,813
Ontario	4,732,812	1,954,571	5,760,489	12,447,872
Manitoba	293,633	19,865	229,361	542,859
British Columbia	133,118	7,804	29,410	170,332
New Brunswick and Alberta	—	—	—	—
Canada	10,050,950	5,431,517	10,986,076	26,468,543

1. (a) Book value of all manufacturing inventories 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.

TABLE 3. Products made in the Medicinal and Pharmaceutical Preparations Industry, 1953 and 1954

Product	Value of factory shipments	
	1953	1954
	\$	\$
Medicines and pharmaceuticals:		
Registered as patent medicines and sold without all ingredients declared	18,560,574	18,113,729
Antibiotics and preparations:		
Penicillin preparations	2,919,078	2,366,945
Streptomycin preparations	127,865	103,784
Penicillin-streptomycin combinations	1,172,035	1,498,223
Other antibiotics and preparations thereof ²	5,180,935	7,070,409
Sex hormones	2,254,608	2,098,008
Sulphonamide (sulpha) preparations with or without other active ingredients	1,235,853	1,318,821
Vitamins and preparations:		
Vitamins in bulk	³	³
Vitamin preparations in which the principal active ingredients are vitamins	12,282,451	12,354,717
Biologicals and vaccines	3,267,902	4,820,692
Oral antiseptics	721,611	774,578
Ethical specialties for human use, not elsewhere specified	28,840,795	29,575,961
All other human medicines	8,301,528	8,263,889
Veterinary medicines	1,525,415	1,684,794
Disinfectants	138,662	123,813
Insecticides	476,912	364,334
Flavouring extracts	495,673	455,096
Toilet preparations	3,672,808	3,972,744
All other products ¹	2,382,463	2,435,021
Total	93,557,168	97,395,558

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, 1953 and 1954

Material	Unit of measure	1953		1954	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Acetanilid	lb.	7,615	3,610	7,932	4,179
Acetic acid (as 99½%)	"	44,700	5,307	24,629	3,576
Acetone	"	1,380,508	142,952	881,493	87,948
Acetylsalicylic acid	"	717,862	421,971	597,402	342,046
Benzoic acid	"	29,854	17,585	5,611	2,785
Boric or boracic acid	"	165,190	17,261	116,536	13,046
Chalk, ground	"	56,400	3,095	55,183	3,255
Chalk, precipitated	"	516,093	19,862	530,913	26,902
Citric acid	"	706,316	194,596	436,362	133,808
Bismuth metal	"	15,753	35,797	19,094	45,433
Bismuth salts	"	15,108	51,466	14,168	50,663
Caffeine	"	25,973	72,725	26,599	84,576
Camphor	"	58,757	32,851	51,880	31,141
Castor oil	"	64,758	17,469	54,174	12,929
Cod liver oil	"	382,518	103,499	426,809	96,091
Essential oils	—	—	231,040	—	197,813
Ether, sulphuric	lb.	56,407	13,411	58,962	11,782
Ethyl alcohol (including tax)	Imp. gal.	245,834	542,206	227,768	535,086
Gelatine capsules (for use in compounding)	—	—	340,275	—	308,131
Glucose	lb.	697,885	53,938	851,291	62,807
Glycerine, refined	"	1,163,677	571,254	877,731	315,281
Gums — Arabic	"	110,545	19,329	115,544	21,449
Karoya	"	106,305	25,937	114,057	27,027
Other	"	36,305	25,968	37,339	26,200
Iodine, crude	"	102,515	159,538	103,863	124,471
Herbs, roots and vegetable drugs:					
Raw or crude (ground or milled)	—	—	207,031	—	333,989
Extracts (powders and liquids)	—	—	180,251	—	222,224
Hydrochloric acid	lb.	76,193	4,373	28,657	3,903
Isopropyl alcohol	"	314,686	36,498	367,315	38,887
Lanolin	"	79,410	33,401	73,273	21,887
Magnesium sulphate (Epson salts)	"	1,297,042	43,943	976,324	33,134
Malt extract	"	463,652	64,505	377,179	52,848
Menthol	"	25,568	128,902	21,114	97,319
Mercury metal	"	46,487	111,624	45,269	133,524
Methyl alcohol (methyl hydrate)	Imp. gal.	66,589	44,051	63,536	55,192
Mineral oil, white	lb.	1,331,867	173,217	1,374,418	147,590
Nitric acid	"	70,983	5,930	21,196	2,428
Paradichlorobenzene	"	180,564	23,773	146,402	21,197
Penicillin	—	—	431,804	—	546,812
Petroleum jelly	lb.	948,367	88,961	974,413	89,038
Phenacetin	"	139,585	162,364	145,477	156,758
Phenobarbital and other barbiturates	"	27,260	152,795	26,952	143,438
Phenol (carbolic acid)	"	8,718	4,666	3,757	2,358
Potassium iodide	"	25,923	48,740	56,084	81,577
Potassium sodium tartrate (Rochelle salt)	"	14,688	4,313	19,466	5,007
Pyrethrum	"	1,735	1,008	1,156	743
Silver bullion	troy oz.	309,822	260,687	257,510	214,904
Sodium bicarbonate	lb.	1,612,030	50,360	1,421,660	50,624

TABLE 4. Materials Used in the Medicinal and Pharmaceutical Preparations Industry, 1953 and 1954 - Concluded

Material	Unit of measure	1953		1954	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Sodium bromide	lb.	50,605	17,319	46,788	13,212
Sodium hydroxide	"	2,962,598	53,507	2,230,567	42,196
Sodium salicylate	"	21,846	11,406	11,917	7,333
Sodium sulphate	"	39,934	4,657	33,532	4,033
Starch	"	710,363	56,199	680,796	55,265
Stearic acid	"	400,463	51,913	208,833	35,389
Sulpha drugs	-	-	471,524	-	422,414
Sulphur	lb.	48,707	2,981	43,420	2,779
Sugar	"	4,095,047	342,913	3,925,206	307,548
Talc	"	642,747	27,151	703,455	24,729
Tartaric acid	"	559,323	169,294	460,076	137,973
Vitamins - A	-	-	301,937	-	378,581
E ¹ (thiamin chloride)	-	-	223,843	-	173,160
E ² (riboflavin)	-	-	318,838	-	365,641
C (ascorbic acid)	-	-	408,349	-	373,511
D	-	-	16,357	-	43,072
Wax - Beeswax	lb.	43,824	33,449	46,454	34,544
Paraffin	"	30,841	3,351	31,068	3,445
Other waxes	"	74,045	43,968	75,276	39,530
Bottles, boxes, labels, etc., and packing materials	-	-	9,926,283	-	10,305,385
All other materials and process supplies	-	-	12,844,614	-	13,464,192
Total	-	-	30,716,172	-	31,257,738

TABLE 5. Production¹, Imports and Exports of Medicinal and Pharmaceutical Preparations, 1945-1954

Year	Production ² (selling value at factory)	Imports	Exports
	\$	\$	\$
1945	46,248,763	9,440,067	5,739,853
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

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, 1953 and 1954

Type	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1953						
Individual ownership	31	115	184,373	9,188	227,903	616,459
Partnerships	12	61	117,988	4,163	189,621	540,225
Incorporated companies	173	7,316	21,456,290	809,087	30,298,648	92,400,484
Co-operatives	1					
Total	217	7,492	21,758,651	822,438	30,716,172	93,557,168
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

TABLE 7. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Grouped According to Size of Establishments, 1953 and 1954

Establishments reporting a value of factory shipments	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$	\$
1953						
Under \$10,000	38	62	76,759	5,565	59,626	187,944
\$10,000 to \$24,999	28	92	158,343	6,249	131,492	464,211
\$25,000 to \$49,999	21	121	238,668	12,798	259,761	729,114
\$50,000 to \$99,999	28	260	592,424	25,453	687,145	2,031,556
\$100,000 to \$199,999	28	397	993,853	39,807	1,282,330	3,967,823
\$200,000 to \$499,999	25	750	1,926,691	67,660	2,553,198	7,940,469
\$500,000 to \$999,999	27	1,494	3,836,044	171,823	6,377,870	19,613,480
\$1,000,000 to \$4,999,999	18	2,728	8,438,052	202,532	11,638,866	34,210,152
\$5,000,000 and over	4	1,536	5,332,891	290,551	7,725,884	24,412,419
Head offices	—	52	164,926	—	—	—
Total	217	7,492	21,758,651	822,438	30,716,172	93,557,168
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

TABLE 8. Employees and Their Earnings in the Medicinal and Pharmaceutical Preparations Industry, 1953 and 1954

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Quebec	982	724	1,087	828	3,621	6,294,854	4,539,398	10,834,252
Ontario	596	716	1,081	1,264	3,657	4,737,339	5,682,102	10,469,491
Manitoba	21	24	45	45	135	123,030	183,382	306,412
British Columbia	15	5	9	18	47	62,632	43,577	106,209
Other provinces	10	4	9	9	32	20,378	21,909	42,287
Canada	1,624	1,473	2,231	2,164	7,492	11,288,283	10,470,368	21,758,651
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	11,009,755
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

TABLE 9. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
	Number					
January	2,187	2,058	4,245	2,291	2,176	4,467
February	2,208	2,088	4,296	2,292	2,162	4,454
March	2,194	2,133	4,327	2,294	2,163	4,457
April	2,201	2,156	4,357	2,278	2,156	4,434
May	2,220	2,168	4,388	2,279	2,144	4,423
June	2,247	2,197	4,444	2,289	2,156	4,445
July	2,222	2,156	4,378	2,196	2,099	4,295
August	2,259	2,177	4,436	2,253	2,135	4,388
September	2,244	2,246	4,490	2,246	2,139	4,385
October	2,261	2,239	4,500	2,245	2,158	4,403
November	2,267	2,211	4,478	2,231	2,125	4,356
December	2,262	2,142	4,404	2,246	2,072	4,318
Average	2,231	2,164	4,395	2,257	2,137	4,394

TABLE 10. Capital and Repair Expenditures in the Medicinal and Pharmaceutical Preparations Industry, 1950-1954

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						
1950	273	1,110	1,383	262	546	808	2,191
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 ¹	2,987	2,023	5,010	349	942	1,291	6,301

1. Preliminary.

TABLE 11. Imports into Canada and Exports of Medicinal and Pharmaceutical Preparations, 1953 and 1954

	Unit of measure	1953		1954	
		Quantity	\$	Quantity	\$
(a) Imports					
Caffeine, and salts of	lb.	47,218	109,421	3,462	7,986
Cocaine	oz.	2,081	23,266	1,898	28,391
Codeine, and salts of	"	69,599	373,986	139,745	703,524
Morphine	"	5,286	32,209	1	1
Opium derivatives, n.o.p.	oz.	1	1	12,178	49,472
Opium	lb.	215	2,977	105	1,091
Quinine, salts of	oz.	43,323	15,835	76,254	25,231
Strychnine, and salts of	"	18,327	15,930	9,155	6,871
Preparations or chemicals, weed-killing	-	-	3,013,586	-	2,627,100
Nicotine, salts of nicotine; preparations containing nicotine in a free or combined state, for dipping, spraying or fumigating, n.o.p.	lb.	137,488	115,163	93,090	90,247
Chloropicrin, ethylene oxide, methyl bromide, methyl formate cyanides, carbon bisulphide, or mixture containing any of these, for combating destructive insects or pests	-	-	124,933	-	115,171
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	-	-	500,314	-	372,058
Preparations or chemicals, non-alcoholic, for disinfecting, dipping, spraying or fumigating, n.o.p., or manufacturing the same	-	-	5,992,140	-	7,108,322
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, dry	-	-	5,802,154	-	6,066,234
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, liquid, when containing not more than 2½% of proof spirit	-	-	1,452,168	-	1,363,126
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, all other	-	-	92,675	-	90,338
Medicinal or medicated wines, containing not more than 40% of proof spirit	-	-	-	-	-
Menthol, natural or synthetic	-	-	179,541	-	212,216
Papaine	-	-	58,223	-	55,766
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.	12,873	105,183	12,216	102,872
Non-alcoholic extract of cascara sagrada	-	-	19,721	-	9,015
Penicillin, and products of	-	-	1,345,408	-	1,136,890
Streptomycin, and products of	-	-	285,049	-	251,861
Sulpha drugs	-	-	764,326	-	528,389
Antibiotics, n.o.p.	-	-	1,992,042	-	4,028,576
Total imports	-	-	22,417,251	-	24,980,747
(b) Exports					
Dipping, spraying and insecticide compounds	-	-	56,263	-	183,855
Penicillin, and products of	-	-	1,027,204	-	742,554
Streptomycin, and products of	-	-	906,977	-	562,586
Antibiotics, n.o.p.	-	1	1	-	537,587
Medicinal and proprietary preparations	-	-	3,768,661	-	3,449,145
Total exports	-	-	5,659,105	-	5,475,727

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

1. Not available separately.

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1954

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 #2 Company	Parrshoro
New Brunswick:	
Baird Co. Ltd., The	66 King St., Woodstock
Quebec:	
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. (Reg'd.), The	253 Wolfe St., Lauzon
Arrow Laboratories Inc.	1348 Greene Ave., Montreal
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
Briston 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	70 de la Chapelle, 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. Leclair, Montreal
Cie Paula Ltée, La	21 St. Paul St. E., Montreal
Compagnie J. L. Mathieu Ltée	14 Albert St., Sherbrooke
Compagnie Pharmed 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
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
Horner, Frank W., Ltd.	5485 Ferrier St., Town of Mount Royal
Kress & Owen Co. Of Canada Ltd.	425 River St., Montreal
Laboratoire Bilophen Laboratory Inc.	2650 Beaubien St. E., Montreal
Laboratoire Du. Cheptel Ltée	Beloelil
Laboratoire Demers Eng.	414, rue St-Jean, Québec
Laboratoire Lancet Ltée	1615 Lagauchetiere E., Montreal
Laboratoire Dr. Léo Lorrain, Ltée	203 Place Youville, Montréal
Laboratoire Morois Limitée	29 Cemin D'Oka, St-Eustache
Laboratoire Martel	6201 Christophe Colomb St., Montreal

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1954 - Continued

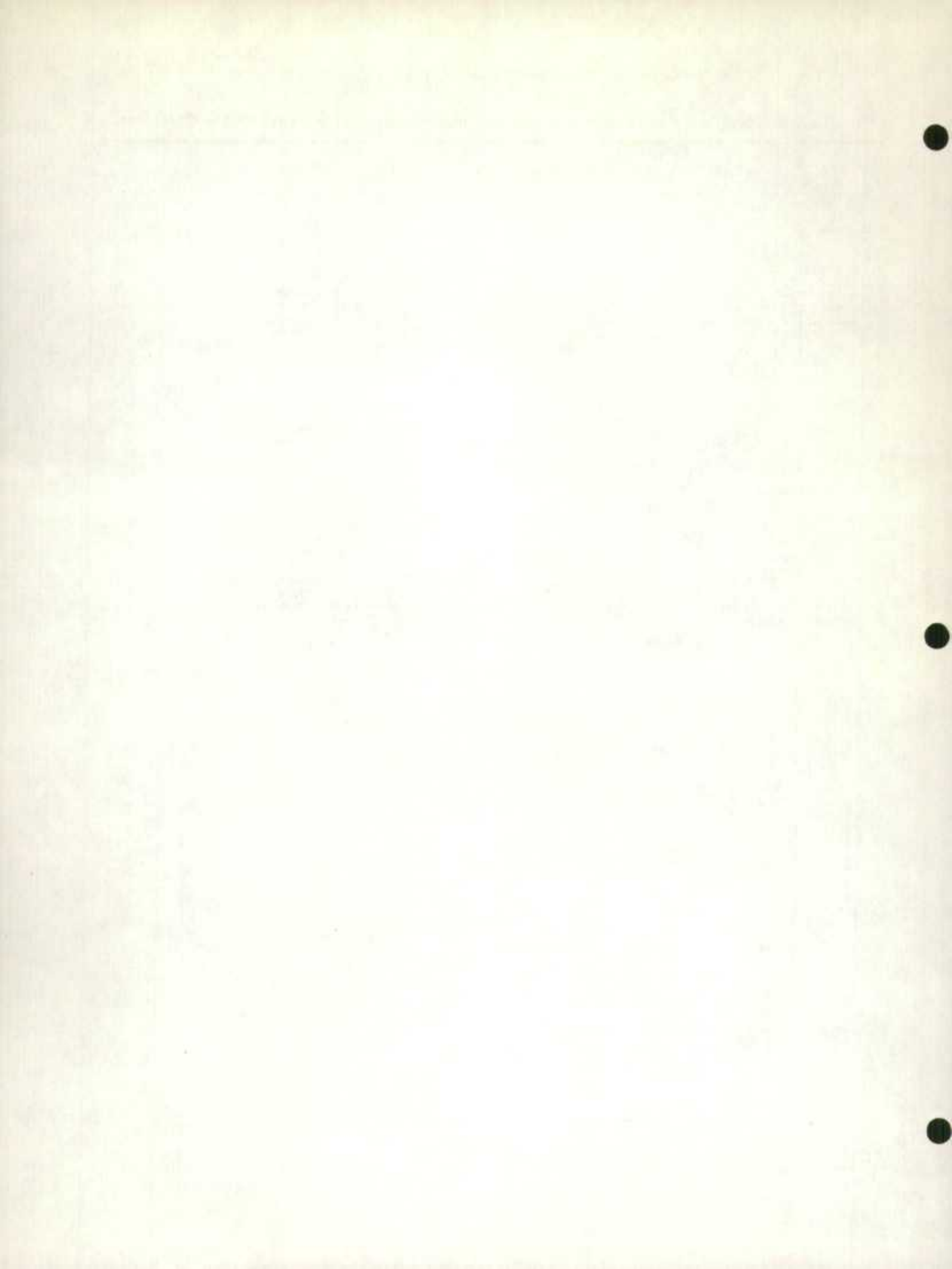
Name of firm	Location of plant
Quebec — concluded:	
Laboratoire Montphar	2420 Notre Dame St. E., Montreal
Laboratoire Nadeau Limitée	100 St. Paul St. W., Montreal
Laboratoire Octo. Ltée	8725 Lajeunesse, Montreal
Laboratoire Ortho Medico Enrg.	1647 Fleury St. E., Montreal
Laboratoire Pasteur Ltée	1645 Edouard Laurin, Montreal
Laboratoires St. Hubert Ltée	6631, rue St-André, Montréal
Laboratoire Vincent Inc.	099, ave de Salaberry, Montréal
Lacrois, F. X.	62, rue St-Joseph ouest, Québec
Les Remèdes Faguet Enrg.	15 Dessane, Lauzon
Lambert, Dr. J. O., Limitée	2234 St. Antoine St., Montreal
Laurentian Laboratories, 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.	40 A 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
Morin, L. A., & Cie Ltée	111 Côte de la Montagne, Québec
Mothersill Remedy Co. Ltd., The	1410 Stanley St., Montreal
Mowatt & Moore, Limited	64 Prince St., 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
Pharmacal Trading Ltd.	1206 Craig St. E., Montreal
Polson, 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
Robaspharm (Canada) Ltd.	St. Jérôme
Rosemont Chemicals	3801 Masson St., Montreal
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. Laurent
Société D'Expansion Pharmaceutique Inc.	1361 Notre Dame St. E., Montreal
Squibb, E. R., & Sons of Canada Ltd.	2245 Viau St., Montreal
Strong Cobb of Canada Ltd.	388 St. Paul St. West, Montreal
Usines Chimiques du Canada	100 St. Paul W., Montréal
Watkins, J. R., Co., The	350 St. Roch St., Montréal
White, A. J., & Co. Ltd.	5105 Cote de Liesse Rd., Montreal
Ontario:	
Accurate Laboratories	186½ King St., London
Allen & Hambury's Co. Ltd., The	Bator Rd., Toronto
Alpa Co.	278 Queen St. West, Toronto
Anglo-Canadian Drug Co. Ltd.	99 Simcoe St. S., Oshawa
Arner Co. Ltd., The	30 Niagara St., Fort Erie North
Austin Laboratories Ltd.	Guelph
Baxter Laboratories of Canada Ltd.	Willow St., Acton
Bell-Craig Limited	270 Parliament 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
Carter Products, N. S., Inc.	358 Adelaide St. W., Toronto
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
Cressy, John R., Co.	153 Sheridan Ave., Toronto
Cummings, Charles C., & Company	2107 Dundas St. W., Toronto
Curry, H. E., Inc.	637 Main St. E., Hamilton

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1954 - Continued

Name of firm	Location of plant
Ontario - concluded:	
Druggists' Corporation, Limited	107-9 Duke St., Toronto
Eaton, T., Drug Co. Ltd., The	190 Yonge 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
Koegler Laboratories	22 McDougall Ave., Waterloo
Lambert Pharmacal Company (Canada) Limited	2000 Eglinton Ave. E., Toronto
Lavoris Chemical Co. Ltd.	92 Jarvis St., Toronto
Lewis-Howe Company	2595 Sandwich St. E., Windsor
Lilly, Eli, and Company, Canada, Ltd.	3650 Danforth Ave., Toronto
Lograsso, P.	464 Winona Drive, Toronto
Luscoe 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
Noble, Wilfred, Ltd.	169 Glen Rd., Toronto
Northrop & Lyman Co. Ltd.	462-66 Wellington St. W., Toronto
Norwich Pharmacal Co., Ltd.	107 Atlantic Ave., 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	1131 Bloor St. W., Toronto
Ottway, C., Ltd.	514 Danforth Ave., Toronto
Parke, Davis & Co. Ltd.	Sandwich St., Windsor
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 Bartlett 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 Tabletting Company, Div. of Spice Craft Ltd.	35 Lucy Ave., 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, John, & Bro. (Canada) Ltd.	2109 Ottawa St., Windsor

Directory of Firms in the Medicinal and Pharmaceutical Preparations Industry, 1954 - Concluded

Name of firm	Location of plant
Manitoba:	
Bonzoe Products	50 Gertie St., Winnipeg
Dominion Chemical Laboratories	44 Austin St., Winnipeg
Fahrney, Dr. Peter, & Sons Co.	256 Stanley St., Winnipeg
Jay's Products	705 Selkirk Ave., Winnipeg
Kleerex Mfg. Co.	263 Kennedy St., Winnipeg
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:	
Diva Laboratories Ltd.	Saanichton
Kent Chemicals Ltd.	1292 Franklin St., Vancouver
Nephron Agency of Canada	3477 Kingsway, Vancouver
Nu Life Remedies Co.	3074 Shelbourne, Victoria
Pacific Pharmaco Co. Ltd.	144 Water St., Vancouver
Palfenier, J. C. (Bronkit Co.)	1817 McSpadden, Vancouver
Urist Chemical Laboratories	696 Clark Drive, Vancouver
Western Wholesale Drug Ltd.	456 Broadway West, Vancouver



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