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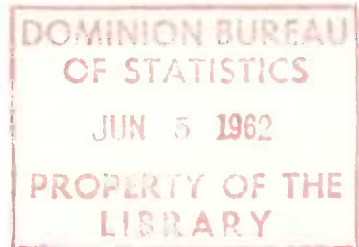
ANNUAL



MANUFACTURERS OF PHARMACEUTICALS
AND MEDICINES
1960

Formerly The Medicinal and Pharmaceutical Preparations Industry

ANNUAL CENSUS
OF MANUFACTURES



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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1960 are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, ware-

housing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc. are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers

and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

MANUFACTURERS OF PHARMACEUTICALS AND MEDICINES

1960

Data presented in this report under the heading of Manufacturers of Pharmaceuticals and Medicines reflect the implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics — see item "Standard Industrial Classification" in the Explanatory Notes section of this report. For statistical purposes the industry titled Manufacturers of Pharmaceuticals and Medicines in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing drugs and medicines. This industry includes manufacturers of patent and proprietary medicines; veterinary medicines; vitamin products; cod liver oil preparations; and biological products, such as antitoxins, bacterins, serums, vaccines; as well as establishments primarily engaged in manufacturing antibiotics. Establishments primarily engaged in grinding drugs and herbs are also included.

In many instances, adoption of the revised Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. However, in the case of establishments engaged in manufacturing pharmaceuticals and medicines, changes brought about by the implementation of the revised Standard Industrial Classification were minimal as evidenced in the comparative series of statistics presented in Table 1A and 1B. Table 1A shows data for these establishments according to the "old" concept while Table 1B carries figures re-compiled on the "new" or revised Standard Industrial Classification basis.

There were 198 establishments classified as Manufacturers of Pharmaceuticals and Medicines in

1960; of which 1 was in Newfoundland, 1 in Nova Scotia, 2 in New Brunswick, 90 in Quebec, 87 in Ontario, 5 in Manitoba, 3 in Alberta and 9 in British Columbia. Employees in the industry numbered 7,994; salaries and wages totalled \$31,898,479; fuel and electricity cost \$1,077,743; materials used in manufacturing processes cost \$45,550,429; and factory shipments were valued at \$164,896,766.

The establishments in this industry make pharmaceuticals and medicines as their main products, but some also manufacture other lines, such as toilet preparations, soft drink powders and flavouring extracts, as a secondary part of their business. On the other hand, some companies which have been classified to other industrial groups make some pharmaceutical and medicinal preparations as minor products. The total value of factory shipments of all pharmaceuticals and medicines (including amounts from other industries) was \$159,390,000 in 1960 as compared with \$154,334,000 in 1959.

Note: Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increases or decreases to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouse.

TABLE 1A. Principal Statistics of the Medicinal and Pharmaceutical Preparations Industry, Significant Years 1929 - 59

Basis: Standard Industrial Classification in use prior to 1960

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	Selling value of factory shipments
	number		dollars				
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
1955	210	7,629	23,937,050	871,026	33,819,677	72,703,379	108,121,734
1956	212	7,801	25,953,213	924,013	38,009,475	83,300,272	122,592,220
1957	207	8,146	28,656,116	1,071,798	42,336,512	97,276,687	140,092,919
1958	196	7,996	29,847,315	1,084,043	44,289,303	111,162,375	155,006,181
1959	188	8,146	31,133,539	1,074,857	48,510,551	116,977,106	164,733,036

¹ See note 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 1B. Principal Statistics, Manufacturers of Pharmaceuticals and Medicines, By Provinces, 1957-60

Basis: Standard Industrial Classification revised, 1960

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	Selling value of factory shipments
	number				dollars		
1957							
Newfoundland	1	} 21	46,905	2,148	86,652		294,743
Nova Scotia	1						
New Brunswick	3						
Quebec	87	4,003	14,642,904	634,182	20,590,774		62,709,060
Ontario	89	3,748	12,838,844	396,978	19,686,056	2	70,977,592
Manitoba	7	} 118	317,050	18,885	504,235		1,469,575
Alberta	1						
British Columbia	13	55	156,527	6,205	225,359		517,926
Canada	202	7,945	28,002,230	1,058,398	41,093,076		135,968,896
1958							
Newfoundland	2	} 27	75,388	4,686	167,475		466,060
Nova Scotia	1						
New Brunswick	2						
Quebec	86	3,943	14,995,297	627,575	21,050,123		70,543,227
Ontario	83	3,713	13,734,958	413,454	20,791,011	2	76,778,209
Manitoba	7	} 113	333,065	19,379	509,063		1,865,774
Alberta	1						
British Columbia	11	42	125,690	6,234	184,416		373,786
Canada	193	7,838	29,264,398	1,071,328	42,702,088		150,027,056
1959							
Newfoundland	2	} 18	50,362	3,574	97,505		324,810
Nova Scotia	1						
New Brunswick	2						
Quebec	84	3,925	15,315,725	573,125	22,950,113		76,632,184
Ontario	79	3,881	14,620,012	462,696	23,049,839	2	80,120,532
Manitoba	5	} 103	314,327	18,785	512,127		1,587,956
Alberta	1						
British Columbia	10	47	150,326	4,006	170,470		383,445
Canada	184	7,974	30,450,752	1,062,186	46,780,054		159,048,927
1960							
Newfoundland	1	} 14	37,597	1,773	63,021	196,578	254,866
Nova Scotia	1						
New Brunswick	2						
Quebec	90	3,636	14,866,363	542,506	20,956,539	52,632,040	74,960,290
Ontario	87	4,194	16,507,748	510,104	23,850,864	64,280,011	87,586,778
Manitoba	5	97	310,771	18,860	479,905	1,118,447	1,603,953
Alberta	3	4	8,000	200	6,000	11,116	17,882
British Columbia	9	49	168,000	4,300	194,100	278,976	472,997
Canada	198	7,994	31,898,479	1,077,743	45,550,429	118,517,168	164,896,766

¹ See note to text.

² The changeover to the new classification has delayed the recompilation of "value added" for these years and same will not be available until the next issue of this report.

TABLE 2. Inventories:¹ Manufacturers of Pharmaceuticals and Medicines, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening:				
Newfoundland, Nova Scotia and New Brunswick ..	26,581	157	10,309	37,047
Quebec	5,690,611	2,979,045	5,892,437	14,562,093
Ontario	6,090,265	4,223,979	7,228,053	17,542,297
Manitoba	217,176	29,091	183,287	429,554
Alberta	3,198	—	566	3,764
British Columbia	200,385	2,211	32,720	235,316
Canada	12,228,216	7,234,483	13,347,372	32,810,071
Closing:				
Newfoundland, Nova Scotia and New Brunswick ..	21,877	150	16,822	38,849
Quebec	5,373,570	2,237,533	5,804,744	12,415,847
Ontario	5,968,116	4,652,406	7,853,827	18,474,349
Manitoba	158,690	35,607	190,030	384,327
Alberta	2,150	—	—	2,150
British Columbia	213,200	3,000	36,310	252,510
Canada	11,737,603	6,928,696	13,901,733	32,568,032

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

TABLE 3. Factory Shipments: Manufacturers of Pharmaceuticals and Medicines, 1960

Product	Value of factory shipments
	\$
Medicines and pharmaceuticals:	
Registered as patent medicines and sold without all ingredients declared	24,442,717
Antibiotics and preparations:	
Penicillin preparations	4,260,360
Streptomycin preparations	327,744
Penicillin-streptomycin combinations	780,331
Other antibiotics and preparations thereof ¹	15,725,029
Sex hormones	2,663,821
Sulphonamide (sulpha) preparations with or without other active ingredients	1,603,196
Vitamins and preparations:	
Vitamins in bulk	2
Vitamins preparations in which the principal active ingredients are vitamins	17,211,147
Biologicals and vaccines (excluding sex hormones)	3,940,726
Oral antiseptics	1,551,536
Ethical specialties for human use, not elsewhere specified	60,635,336
All other human medicines	10,893,859
Veterinary medicines	3,782,551
Miscellaneous medicines and pharmaceuticals (including medicinal chemicals and feed supplements)	4,522,152
Total, medicines and pharmaceuticals	152,320,505
Disinfectants	318,568
Insecticides	423,794
Flavouring extracts	360,307
Toilet preparations	6,603,871
All other products ³	4,869,721
Total	164,696,766

¹ Includes penicillin, streptomycin and other antibiotics as well as antibiotic preparations not elsewhere specified.

² Included with "All other human medicines".

³ Includes soap, packaged goods, fountain supplies and syrup and other such articles.

Note: Data given in this table are for the Manufacturers of Pharmaceuticals and Medicines 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: Manufacturers of Pharmaceuticals and Medicines, 1960

Material	Quantity	Cost at plant
		\$
Acetanilid	lb. 7,603	3,745
Acetic acid (as 99½%)	" 12,495	2,416
Acetone	" 206,680	23,771
Acetylsalicylic acid	" 888,033	499,576
Benzoic acid	" 3,668	2,154
Boric or boracic acid	" 91,260	12,927
Chalk, ground	" 104,386	3,564
Chalk, precipitated	" 199,165	11,188
Citric acid	" 755,115	236,233
Bismuth metal	" 11,214	20,960
Bismuth salts	" 9,049	24,464
Caffeine	" 35,647	70,267
Camphor	" 47,509	28,151
Castor oil	" 39,045	11,388
Cod liver oil	" 202,443	46,782
Essential oils .....	..	161,747
Ether, sulphuric	lb. 68,304	18,514
Ethyl alcohol (including tax)	Imp. gal. 195,567	371,843
Gelatine capsules (for use in compounding)	—	333,938
Glucose	lb. 1,155,382	87,355
Glycerine, refined	" 1,237,317	373,273
Gums — Arabic	" 133,275	32,809
Karoya	" 91,573	31,264
Other	" 10,705	15,695
Iodine, crude	" 47,952	54,100
Herbs, roots and vegetable drugs:		
Raw or crude (ground or milled) .....	..	177,133
Extracts (powders and liquids) .....	..	128,519
Hydrochloric acid .....	...	11,393
Isopropyl alcohol	lb. 437,435	45,029
Lanolin	" 54,738	14,170
Magnesium sulphate (Epsom salts)	" 1,001,063	37,934
Malt extract	" 136,717	19,823
Menthol	" 20,509	113,442
Mercury metal	" 12,143	30,815
Methyl alcohol (methyl hydrate)	Imp. gal. 17,340	14,132
Mineral oil, white	lb. 824,536	112,115
Nitric acid	" 85,375	4,552
Paradichlorobenzene	" 49,463	6,978
Penicillin .....	..	850,819
Petroleum jelly	lb. 457,351	58,077
Phenacetin	" 207,872	173,623
Phenobarbital and other barbiturates	" 48,786	264,154
Phenol (carbolic acid)	" 4,598	2,655
Potassium iodide	" 5,822	10,920
Potassium sodium tartarate (Rochelle salt)	" 10,910	2,993
Pyrethrum	" 39	26
Silver bullion	troy oz. —	—
Sodium bicarbonate	lb. 1,263,908	48,371
Sodium bromide	" 49,351	17,831

TABLE 4. Materials Used: Manufacturers of Pharmaceuticals and Medicines, 1960 - Concluded

Material	Quantity	Cost at plant
		\$
Sodium hydroxide..... lb.	542,068	19,401
Sodium salicylate..... "	7,182	4,179
Sodium sulphate..... "	107,157	4,589
Starch..... "	560,016	47,708
Stearic acid..... "	216,117	48,816
Sulpha drugs.....	..	608,431
Sulphur..... lb.	31,173	2,554
Sugar..... "	3,915,050	310,333
Talc..... "	699,516	32,721
Tartaric acid..... "	144,566	61,118
Vitamins - A.....	..	482,063
B ¹ (thiamin chloride).....	..	87,404
B ² (riboflavin).....	..	161,409
C ((ascorbic acid).....	..	344,404
D.....	..	35,631
Wax - Beeswax..... lb.	29,899	25,323
Paraffin..... "	30,840	3,919
Other waxes..... "	25,861	11,453
Bottles, boxes, labels, etc., and packing materials.....	...	13,747,397
All other materials and process supplies ¹.....	...	24,887,948
Total.....	...	45,550,429

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$200,000. The total estimated value of materials used by these firms was \$1,549,100 and this amount is included in "All other materials and process supplies".

TABLE 5. Factory Shipments:¹ (From All Industries), Imports and Exports of Pharmaceuticals and Medicines, 1952-60

Year	Shipments	Imports	Exports
		dollars	
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
1957.....	126,297,000	28,392,000	6,835,000
1958.....	139,621,000	29,238,000	9,560,000
1959.....	154,334,000	32,428,000	6,758,000
1960.....	159,390,000	32,613,000	5,726,000

¹ Shipments figures represent the total Canadian shipments, including some medicinals made in other industries.

Note: For details on imports and exports, see Tables 11 and 12.

TABLE 6. Principal Statistics classified according to Type of Ownership: Manufacturers of Pharmaceuticals and Medicines, 1957 and 1960

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
	number		dollars			
1957						
Individual ownership	24	46	119,000	3,500	72,652	223,434
Partnerships	9	49	150,215	6,064	144,079	433,166
Incorporated companies	169	7,850	27,733,015	1,048,834	40,876,345	135,312,296
Totals	202	7,945	28,002,230	1,058,398	41,093,076	135,968,896
1960						
Individual ownership	19	101	179,170	8,722	216,235	527,482
Partnerships	8	35	75,660	6,116	85,868	244,589
Incorporated companies	171	7,858	31,643,649	1,062,905	42,248,326	164,124,695
Totals	198	7,994	31,898,479	1,077,743	45,550,429	164,896,766

TABLE 7. Principal Statistics grouped according to Selling Value of Factory Shipments: Manufacturers of Pharmaceuticals and Medicines, 1957 and 1960

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
	number		dollars			
1957						
Under \$10,000	34	43	82,639	2,665	38,348	146,153
\$ 10,000 to \$ 24,999	25	87	218,789	6,546	126,033	400,043
25,000 " 49,999	18	109	271,699	11,973	301,015	650,926
50,000 " 99,999	24	240	625,632	39,169	632,342	1,872,760
100,000 " 199,999	20	239	617,997	31,219	959,838	2,867,158
200,000 " 499,999	32	764	2,380,416	91,680	3,797,742	10,266,961
500,000 " 999,999	16	624	1,961,211	82,673	3,046,190	10,894,315
1,000,000 " 4,999,999	26	3,015	10,854,754	576,250	19,924,240	59,334,778
5,000,000 and over	7	2,462	9,370,141	216,223	12,267,328	49,535,802
Head offices	—	362	1,618,952	—	—	—
Totals	202	7,945	28,002,230	1,058,398	41,093,076	135,968,896
1960						
Under \$10,000	29	38	65,030	4,190	45,953	140,562
\$ 10,000 to \$ 24,999	22	65	144,390	9,332	127,682	370,728
25,000 " 49,999	21	105	290,633	11,208	221,667	716,685
50,000 " 99,999	15	130	353,340	23,987	314,292	1,080,500
100,000 " 199,999	23	345	891,768	42,277	1,121,122	3,374,140
200,000 " 499,999	32	745	2,633,909	81,939	3,421,749	10,565,422
500,000 " 999,999	16	761	2,591,659	111,209	3,587,446	10,878,510
1,000,000 " 4,999,999	31	2,633	10,777,423	399,108	20,336,574	70,546,467
5,000,000 and over	9	3,172	14,150,327	394,493	16,373,944	67,223,752
Totals	198	7,994	31,898,479	1,077,743	45,550,429	164,896,766

TABLE 8. Employees and their Earnings: Manufacturers of Pharmaceuticals and Medicines, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Quebec	978	875	1,141	931	3,925	9,089,664	6,226,061	15,315,725
Ontario	679	706	1,212	1,284	3,881	7,002,761	7,617,251	14,620,012
Manitoba	26	24	27	25	102	161,273	152,454	313,727
British Columbia	12	5	23	7	47	25,598	25,364	50,962
Other provinces	5	1	7	6	19	74,567	75,759	150,326
Canada	1,700	1,611	2,410	2,253	7,974	16,353,863	14,096,889	30,450,752
1960								
Quebec	937	813	1,008	878	3,636	9,374,844	5,491,519	14,866,363
Ontario	760	793	1,341	1,300	4,194	8,011,437	8,496,311	16,507,748
Manitoba	24	24	26	23	97	157,631	153,140	310,771
British Columbia	11	5	24	9	49	18,785	26,812	45,597
Other provinces	6	—	8	4	18	76,000	92,000	168,000
Canada	1,738	1,635	2,407	2,214	7,994	17,638,697	14,259,782	31,898,479

TABLE 9. Production Workers, by Months: Manufacturers of Pharmaceuticals and Medicines, 1960

Month	Establishments reporting monthly detail ¹	
	Male	Female
January	2,288	2,111
February	2,294	2,135
March	2,285	2,118
April	2,278	2,087
May	2,221	2,055
June	2,177	2,055
July	2,106	1,934
August	2,165	2,022
September	2,133	1,989
October	2,129	1,982
November	2,112	2,003
December	2,068	1,875
Average for establishments reporting monthly detail	2,193	2,037
Average estimated for small establishments ²	214	177
Average for all establishments	2,407	2,214

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$200,000 and over.

² For establishments generally reporting value of shipments of less than \$200,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 10. Fuel and Electricity Used: Manufacturers of Pharmaceuticals and Medicines, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 722	10,916
(b) Imported	" 2,790	34,528
Anthracite coal	" 97	1,348
Lignite coal	" 5	29
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 303,377	131,567
Fuel oil including kerosene or coal oil	" 4,385,620	395,056
Gas:		
(a) Liquefied petroleum gases	" 17,553	5,117
(b) Other manufactured gas	Mcf 2,886	3,340
(c) Natural gas	" 37,675	40,643
Electricity purchased	kwh. 30,550,478	350,630
Steam purchased .....	...	8,028
Other fuel .....	...	11,511
2. Estimate for establishments for which no data were collected: ²		
Cost of fuel and electricity .....	...	85,030
3. All establishments:		
Total cost of fuel and electricity .....	...	1,077,743

¹ Establishments generally reporting value of shipments of \$200,000 and over.

² Establishments generally reporting value of shipments of less than \$200,000.

TABLE 11. Imports of Pharmaceuticals and Medicines, 1959 and 1960

	1959		1960	
	Quantity	Value	Quantity	Value
		\$		\$
Caffeine and salts	lb. 243,654	479,729	129,946	217,538
Cocaine	oz. 760	8,690	1,175	13,838
Codeine and salts	" 131,197	646,184	148,927	733,082
Opium and derivatives n.o.p.	" 10,269	40,905	9,556	37,984
Quinine salts	" 50,607	14,567	62,810	16,915
Preparations or chemicals, weed-killing (including 2-4-D) .....	..	2,829,718	..	4,693,717
Nicotine and salts, for dipping, spraying or fumigating, n.o.p. lb.	45,328	34,119	41,579	34,579
Chloropicrin, ethylene oxide, carbon bisulphide, methyl bromide, methyl formate, acrylonitrile, cyanides or mixtures containing any of these, for use in combating destructive insects and pests .....	..	92,224	..	80,182
Preparations or chemicals, non-alcoholic, for disinfecting, dipping or spraying, in packages not exceeding 3 pound each .....	..	602,284	..	547,828
Preparations or chemicals, non-alcoholic, for disinfecting, dipping or spraying n.o.p., and materials for manufacturing preparations provided for intariff items 209b and 219a .....	..	10,511,961	..	10,456,131
Medicinal, chemical, and pharmaceutical preparations, including proprietary preparations, dry .....	..	8,214,829	..	7,808,150
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, liquid, when containing not more than 2½% of proof spirit .....	..	1,692,929	..	1,944,013
Medicinal, chemical and pharmaceutical preparations, including proprietary preparations, all other .....	..	207,041	..	174,943
Menthol, natural or synthetic .....	..	291,916	..	252,516
Papaine .....	..	74,473	..	71,847
Spirits and strong waters n.o.p., medicinal wines and fortified fruit juices	gal. 24,593	208,496	21,673	202,074
Non-alcoholic extract of cascara sagrada .....	..	37,865	..	32,460
Penicillin and products .....	..	1,070,129	..	1,204,411
Streptomycin and products .....	..	299,312	..	249,281
Sulpha drugs .....	..	584,644	..	482,479
Antibiotics, n.o.p. ....	..	4,506,202	..	3,378,639
Total imports .....	...	32,428,217	...	32,612,607

TABLE 12. Exports of Pharmaceuticals and Medicines, 1959 and 1960

	1959		1960	
	Quantity	Value	Quantity	Value
Dipping, spraying and insecticide compounds	\$ 16,966	..	\$ 198,473
Penicillin, and products	13,318	..	16,242
Streptomycin and products	—	—	..	108
Antibiotics, n.o.p.	489,755	..	1,140,028
Medicinal and proprietary preparations	6,238,805	..	4,371,613
Total exports	6,758,844	...	5,726,464

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

Directory of Firms: Manufacturers of Pharmaceuticals and Medicines, 1960

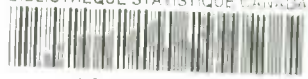
Name of firm	Location of plant
Newfoundland:	
Lilly, A. & Co. Ltd.	56-58 Bond St., St. John's
Nova Scotia:	
Minards Liniment Co. Ltd.	4 Jenkins St., Yarmouth
New Brunswick:	
Baird Co. Ltd., The	66 King St., Woodstock
Row and Company	St. Stephens
Quebec:	
Abbott Laboratories Limited	1350 Cote-de-Liesse Road, Outremont
Andal Laboratories Ltd.	Chaudiere Bassin
Anglo-French Drug Co. Ltd.	209 St. Catherine St. E., Montreal
Arex Co. (Enrg.) The	253 Wolfe St., Lauzon
Ayerst, McKenna & Harrison, Limited	1025 Laurentien Blvd., St. Laurent
Bristol Laboratories of Canada, Ltd.	286 St. Paul St. West, Montreal
Burroughs, Wellcome & Co. (Canada) Ltd.	60 Riverview Ave., Ville La Salle
Canada Drug Ltée	857 St. Maurice St., Montreal
Casgrain & Charbonneau Ltd.	445 St. Lawrence Blvd., Montreal
Chemway (Canada) Limited	Ste. Therese de Blainville
Ciba Co., Ltd.	200 Metropolitan Blvd., Dorval
Cie des Produits Biologiques Europa Ltd.	397 St. Joseph Blvd. W., Montreal
Cie des Produits Homah Inc.	553 A Leclaire, Montreal
Cie Mathieu Limitée	66 Albert St., Sherbrooke
Cie Paula Ltée, La	21 St. Paul St. E., Montreal
Compagnie Pharmed Limitée	100 St. Paul St. W., Montreal
Corporation Pharmaceutique Francaise, Ltée	200, rue Vallée, Montreal
Cyanamid of Canada Ltd.	5550 Royalmount Ave., Montreal 16, P.Q.
Dailiac Ltée	1405 Bishop St., Montreal
Dairy Association Co.	Rock Island
Davis & Lawrence Company (Canada) Ltd.	845 Chatham, Montreal
Delmar Chemicals Limited	50 Victoria St., Lachine
Denver Chemical Mfg. Co.	8465 Devonshire Road, Montreal 9, P.Q.
Desautels Laboratories Ltd.	3580 Jarry Est., Montreal
Desbergers Limited	8490 St. Lawrence Blvd., Montreal
Dohow Chemical Co. Ltd., The	704 Notre-Dame St. W., Montreal
Dominion Herb Distributors Inc.	5341 Western Ave., Montreal
Esteye Co. of Canada	7705-18th Ave., St. Michel
Ex-Lax Limited	8510 Jeanne Mance, Montreal

Directory of Firms: Manufacturers of Pharmaceuticals and Medicines, 1960 - Continued

Name of firm	Location of plant
Quebec - Concluded:	
Familex Products Ltd.	1600 Delorimier St., Montreal
Fortin, Sapin Inc.	Robertsonville
Frasier, Thornton & Co. Ltd.	Cookshire
Frosst, Charles E., & Co.	350 Selby St., 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	1956 Bourdon, St. Laurent
Horner, Frank W., Ltd.	5485 Ferrier St., Town of Mount Royal
Indiana Herbs Co. Reg'd.	6276 Denormandie, Montreal
Injecta Corporation Ltd.	3245 St. Joseph Blvd. E., Montreal
Innerclean Co., The	809 William St., Montreal 3, P.Q.
Inter Lab Enrg.	116 Montée Cyr, Laval
Laboratoire Atlas Enrg.	4101 Notre Dame Est., Montreal
Laboratoire Bilophen Laboratory Inc.	2650 Beaubien St. E., Montreal
Laboratoire des Spécialités Pharmaceutiques et Médicaments Brevetés Inc.	3rd Ave. West, Amos, P.Q.
Laboratoire Du Cheptel Ltée.	230 St. Jean Baptiste, Beloeil
Laboratoire Demers Ltée.	2721 Tremblay, St. Foy, Montreal
Laboratoire Lancet Ltée.	1615 Lagauchetière E., Montreal
Laboratoire Dr. Léo Lorrain, Ltée.	203 Place Youville, 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, Montreal
Les Laboratoire Laurence Enrg.	5186 Chemin Cote des Neiges, Montreal
Lambert, Dr. J.O., Limitée	2234 St. Antoine St., Montreal
Laurentian Laboratoires, Ltd.	442 St. Gabriel St., Montreal
Leeming Miles Pharmaceutical Inc.	5967 Monkland
Mallinckrodt Chemical Works Limited	425 St. Patrick St., Ville La Salle
Marsan, J.M. & Cie. Ltée.	3431 Laval St., Montreal
Matol Research Ltd.	162 St-Laurent, Quebec
Merck & Co. Ltd.	560 de Courcelles, Montreal
Metro Drug Ltd.	5701 Cote St-Paul Rd., Montreal
Mount Royal Chemicals Ltd.	210 Metropolitan Blvd., Dorval
Mowatt & Moore, Limited	64 Prince St., Montreal
Nirvana Compagnie Ltée	St-Romuald D'Etchemin, Montreal
Nordic Biochemicals Ltd.	4324 St. Lawrence Blvd., Montreal
Pharmalab Ltd.	203 Youville Square, Montreal
Poulenc Limitée	8580 Esplanade, Montréal
Pratte, Arthur N. Ltd.	2019 St. Timothée, Montreal 24, Que.
Produits Apicole Enrg., Les	2355 Deaconsfield Ave., Montreal
Produits Gardo Ltée.	77 Principale, Waterloo
Produits Marco Ltée.	Three Rivers
Rawleigh, W.T., Co. Ltd., The	4005 Richelleu St., Montréal
Robapharm (Canada) Ltd.	St-Jérôme
Rougier Inc.	2055 Faward, Montreal
Sandoz (Canada) Ltd.	220 Metropolitan Blvd., Dorval
Sirois, Dr. N.A. Enrg.	St. Ann de la Pocatière
Scientific Concentrates Co.	Rouville
Schering Corporation Ltd.	8370 Labarre St., Montreal
Smith-Kline and French Inter-America Corp.	300 Laurentian Blvd., Ville St. Laurent
Societe des Produits Persans, La	8258 Drolet St., Montreal
Sorex Inc.	175-3ieme Ave., Quebec
Speciality Pharmaceuticals Ltd.	286 St. Paul West, Montreal
St. Germain, Les Médicaments	411 Laurier St. E., Montreal
Squibb, E.R., & Sons of Canada Ltd.	2201 Cote-de-Liesse Rd., Montreal
Valor Medica Inc.	100 St. Paul St. W., Montreal
Vanko Corporation Inc.	10541 Rue de Lorimier, Montreal, 12
Watkins, J.R., Co., The	350 St. Roch St., Montreal
White Laboratories Co. of Canada Ltd.	5100 Sax St., Montreal
Ontario:	
A.V.P. Ltd.	210 Wellington, Kingston
Accurate Laboratories	19 King St., London
Aerosal Custom Pharmaceuticals Ltd.	26 Sable St., Toronto
Anca Pharmaceuticals (Div. of the Wonder Co. of Canada Ltd.)	99 Simcoe St., Oshawa
Astra Pharmaceuticals (Canada) Ltd.	1139 College St., Toronto 4
Austin Laboratories Ltd.	Guelph
Baxter Laboratories of Canada Ltd.	Alliston
Bell-Craig Limited	91 Oxford St., Toronto

Directory of Firms: Manufacturers of Pharmaceuticals and Medicines, 1960 - Continued

Name of firm	Location of plant
Ontario - Continued:	
Brent Laboratories, Ltd.	62 Avenue Rd., Toronto
British Drug House (Canada) Ltd.	Barclay Ave., Queensway, Toronto
Buckley, W.K., Ltd.	559 College St., Toronto
Canada Pharmacal Company Limited	447 Talbot St., London
Canadian Custom Packaging Co.	39 Murrich St., Toronto
Chase, Dr. A.W., Medicine Co., Ltd.	Oakville
Comstock, W.H. Co., Ltd.	95 Tycos Drive, Toronto
Connaught Laboratories	University of Toronto, Toronto
Cleveland's Drug Ltd.	2299 Dundas St. W., Toronto
Cress Laboratories	R.R. # 1, Kitchener
Druggist' Corporation, Limited	107-9 Duke St., Toronto
Elmo Corn Salve	464 Winona Dr., Toronto
Empire Laboratories Ltd.	341 Bloor St. W., 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.
Glaxo-Allenbury's (Canada) Ltd.	Bartor Rd., Weston
Gryphon Laboratories Limited	20 Advance Rd., Toronto, 18
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
Jamison, C.E. & Co. (Dominion) Ltd.	414 Riverside Drive, Windsor
K - Vet Laboratories Ltd.	35 Water St., Galt
Koegler Laboratories	22 McDougall Ave., Waterloo
Lewis-Howe Company	1415 Janette Ave., Windsor
Lilly, Eli, and Company, Canada, Ltd.	3650 Danforth Ave., Toronto
Lusco Products Limited	559 Bathurst St., Toronto
McAlpine Pharmaceutical Ltd.	779 Vaughn Rd., Toronto
Maltby Bros. Ltd.	1124 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	95 Tycos Drive, Toronto
Milles Laboratories Ltd.	1131 Bloor St. W., Toronto ..
Moore-Thompson-Clinger Ltd.	1890 Burlington Street E., Hamilton
Mulveney's R.L., Remedies Ltd.	199 Ossington Ave., 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.	52 Chauncey, Toronto
Noxzema Chemical Co. of Canada, Ltd., The	77 Park Lawn Road, Toronto
Nutri Bal Products	3149 Danforth Ave., Toronto
Omega Laboratories Ltd.	354 Olivewood Rd., Toronto
Ortho Pharmaceutical Corp. (Canada) Limited	19 Green Belt Dr., Toronto
Ottway, C., Ltd.	170 Danforth Ave., Toronto
Parke, Davis & Co. Ltd.	Brockville
Penslar Co., The	1222 Lesperance Rd., Tecumseh
Pfizer Corporation	Arnprior, Ont.
Pharmo Products Ltd.	63 Howden Rd., Scarborough
Pitman-Moore of Canada Ltd.	14 Dyas Rd., Don Mills
Powell, H., Chemical Co. Ltd., The	1 Lambert St., Bowmanville
Private Brand Packagers Limited	43 Hollinger Rd., Toronto
Procoll Mfg. Co. Ltd.	Bowmanville
Rexall Drug Company Limited	2501 Stanfield Rd., Cooksville
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.	335 Richmond St., London
Scherer, R.P., Ltd.	1370 Argyle Road, Windsor
Seneca Laboratories Ltd.	58 Jarvis St., Toronto
Shaw Research	Omeme
Sherman Laboratories Ltd.	3990 Malden Rd., Windsor
Sterling Drug Mfg. Ltd.	Yonge St. S., Aurora
Stevens, J., & Son Co. Ltd.	145 Wellington St. W., Toronto
Strong-Cobb-Arner of Canada Ltd.	Port Erie
Supreme Drug Ltd.	36 Northline Rd., Toronto
Sutcliffe & Bingham of Canada, Ltd.	95 Tycos Drive, Toronto
Templeton Limited	56 Colborne St., Toronto
Upjohn Co. of Canada	Don Mills
Vick Chemical Inc.	Weston
Wampole, Henry K., & Co. Ltd.	Perth



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CHEMICAL AND CHEMICAL PRODUCTS INDUSTRY

Directory of Firms: Manufacturers of Pharmaceuticals and Medicines, 1960 - Concluded

Name of firm	Location of plant
Ontario - Concluded:	
Warner-Lambert Canada Ltd.	727 King St. W., Toronto
Webber Pharmaceuticals Ltd.	393 Weston Rd., Toronto
Whitehall Laboratories Ltd.	Cooksville
Will, Charles R., & Co. Ltd.	571 Richmond St. N., London
Wyeth, John & Bro. (Canada) Ltd.	2109 Ottawa St., Windsor
Manitoba:	
Fahrney, 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.	373 Henderson Hwy., Winnipeg
Alberta:	
Harris Wondro Limited	1742-10th Ave., West, Calgary
McIntyre, J.C.	9927-114th St., Edmonton
Pure Standard Products Ltd.	10863-96th St., Edmonton
British Columbia:	
B.C. Stanley Laboratories Ltd.	452 West Broadway, Vancouver
Cambridge Pharmaceutical Ltd.	745 West Broadway, Vancouver
Gilead Mfg. Co.	157 Strathcona Rd., Chilliwack
Greens A.N.R. Ltd.	862 Balmoral Rd., Victoria
Kent Chemicals Ltd.	1292 Franklin St., Vancouver
Nephron Agency of Canada	3477 Kingsway, Vancouver
New Life Remedies Ltd.	2511 W. Broadway, Vancouver
Urist Chemical Laboratories	696 Clark Drive, Vancouver
Western Laboratories Limited	2780 Broadway East, Vancouver