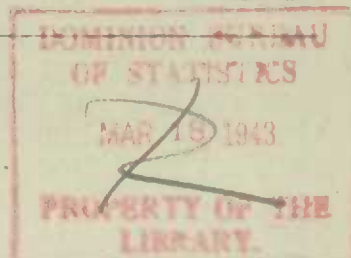


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Dominion Statistician: S. A. Cudmore, M.A. (Oxon.), F.S.S., F.R.S.C.  
Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.  
Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDUSTRY, 1941

Production by the manufacturing plants in Canada which were engaged chiefly in making patent and proprietary medicines, pharmaceuticals and similar commodities, was valued at \$35,471,398 at factory prices in 1941 compared with \$22,571,468 in 1940 and \$27,184,322 in 1939.

Of the 163 factories in this group in 1941, 83 were located in Ontario, 68 in Quebec, 7 in Manitoba, 2 in British Columbia, 1 in Nova Scotia, 2 in Alberta and 1 in New Brunswick. Capital employed in manufacturing was reported at \$31,223,170 of which \$7,500,922 was the value of land, buildings and equipment, \$11,639,873 was the value of inventories and \$12,074,369 was cash and other operating capital. The average number of employees in 1941 was 5,026 compared with 4,550 in the previous year and payments in salaries and wages totalled \$6,921,931 as against \$6,235,753 in 1940. Plants in Ontario produced 56 per cent of the Canadian output and concerns in Quebec accounted for 40 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 second 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 \$27,653,294 in 1941 compared with \$20,791,192 in 1940 and \$19,191,562 in 1939.

Medicinals

Table 1 - PRINCIPAL STATISTICS, 1930 - 1941

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1930 .....	144	18,843,192	2,833	3,663,307	108,160	5,563,081	17,768,806
1931 .....	144	17,843,713	2,866	3,358,591	113,259	5,590,546	18,110,794
1932 .....	151	18,379,601	2,959	3,233,773	114,203	5,595,117	17,573,979
1933 .....	168	17,402,705	3,169	3,350,223	130,318	5,774,331	17,063,849
1934 .....	180	20,041,129	3,506	4,036,409	143,760	6,587,539	19,484,094
1935 .....	166	20,091,688	3,664	4,500,252	157,102	7,009,191	21,232,751
1936 .....	169	20,760,912	3,857	4,797,453	169,633	7,334,370	22,251,550
1937 .....	174	22,780,119	4,296	5,311,120	175,551	8,808,929	24,814,647
1938 .....	171	23,508,341	4,270	5,690,326	192,377	8,566,007	24,536,474
1939 .....	174	25,282,626	4,338	5,906,391	199,899	9,804,525	27,184,262
1940 .....	167	28,153,494	4,550	6,293,759	211,115	10,896,929	29,571,468
1941 .....	169	31,223,170	5,026	6,921,081	243,072	13,436,811	35,471,898
Per cent change 1941 from 1940..	...	+10.9	+10.5	+10.0	+15.1	+23.3	+20.0

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

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1940 and 1941

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1940</u>							
Quebec .....	63	10,098,298	1,672	3,312,775	100,467	3,497,633	10,455,017
Ontario .....	91	16,233,406	2,710	3,733,132	93,163	6,860,116	17,764,671
Manitoba .....	7	1,550,137	131	154,639	7,635	494,532	1,139,168
British Columbia	1)						
Nova Scotia ....	1)	248,146	30	23,133	3,213	33,071	136,232
New Brunswick ..	1)						
Alberta .....	3	28,507	7	6,975	576	5,727	13,630
CANADA ....	167	28,153,494	4,550	6,293,759	211,115	10,896,929	29,571,468
<u>1941</u>							
Quebec .....	63	11,672,573	2,023	2,801,499	133,547	5,305,970	14,130,230
Ontario .....	83	17,697,458	2,330	3,917,391	93,932	7,127,650	19,778,333
Manitoba .....	7	1,530,331	128	165,445	3,930	499,010	1,245,376
British Columbia	2)						
Nova Scotia ....	1)	292,258	40	36,746	1,613	54,131	256,374
New Brunswick ..	1)						
Alberta .....	2)						
CANADA ....	169	31,223,170	5,026	6,921,081	243,072	13,436,811	35,471,898



Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1940 and 1941

Provinces	Present value	Inventory value	Operating capital	TOTAL
	of land, buildings, machinery and equipment	of materials on hand, finished products, and stocks in process	(cash, bills and accounts receiv- able, prepaid expenses, etc.)	CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1940</u>				
Quebec .....	3,327,851	3,217,242	3,553,205	10,098,298
Ontario .....	4,147,203	5,080,073	7,006,130	16,233,406
Manitoba .....	438,348	505,007	605,792	1,550,137
Alberta .....	18,170	6,127	4,210	28,507
Other provinces	54,894	131,303	61,349	248,146
CANADA .....	7,986,466	8,940,742	11,231,286	28,158,494
<u>1941</u>				
Quebec .....	3,274,677	4,353,128	4,044,768	11,672,573
Ontario .....	3,873,927	6,544,662	7,278,869	17,697,458
Manitoba .....	294,727	587,080	679,074	1,560,881
Other provinces	66,597	154,003	71,658	292,258
CANADA .....	7,509,928	11,638,873	12,074,369	31,223,170

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1940 and 1941

Provinces	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1940</u>								
Quebec .....	474	231	500	467	1,672	1,517,636	795,073	2,312,775
Ontario .....	829	449	613	814	2,710	2,442,272	1,350,910	3,793,182
Manitoba .....	13	16	52	45	131	59,492	95,197	154,689
Alberta .....	4	1	1	1	7	5,834	1,141	6,975
Other provinces	2	1	7	20	30	6,100	20,038	26,138
CANADA .....	1,327	638	1,178	1,347	4,550	4,031,304	2,262,305	6,293,759
<u>1941</u>								
Quebec .....	560	315	583	570	2,028	1,816,391	985,108	2,801,499
Ontario .....	823	507	603	897	2,830	2,491,194	1,423,197	3,914,391
Manitoba .....	19	15	47	47	128	63,365	102,080	165,445
Other provinces	4	5	8	23	40	13,082	23,664	36,746
CANADA .....	1,406	842	1,241	1,537	5,026	4,384,032	2,537,049	6,921,081

Medicinals

Table 5 - WAGE-EARNERS, BY MONTHS, 1940 and 1941 (On the last work-day of each month)

Months	1 9 4 0			1 9 4 1		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	1,190	1,327	2,517	1,153	1,376	2,534
February .....	1,175	1,345	2,530	1,173	1,436	2,604
March .....	1,174	1,357	2,531	1,134	1,479	2,663
April .....	1,172	1,350	2,522	1,204	1,456	2,660
May .....	1,168	1,296	2,464	1,217	1,482	2,699
June .....	1,164	1,302	2,466	1,215	1,510	2,725
July .....	1,159	1,364	2,423	1,207	1,497	2,704
August .....	1,165	1,332	2,497	1,259	1,585	2,844
September .....	1,173	1,403	2,581	1,283	1,626	2,974
October .....	1,132	1,390	2,572	1,307	1,730	3,027
November .....	1,171	1,444	2,615	1,312	1,677	2,989
December .....	1,152	1,406	2,558	1,310	1,637	2,947
AVERAGE .....	1,178	1,347	2,525	1,241	1,537	2,778

Table 6 - FUEL AND ELECTRICITY USED, 1940 and 1941

Kinds	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Anthracite coal .....	ton	886	8,870	1,121	11,716
Bituminous coal - Canadian	ton	4,743	30,133	5,931	33,400
Imported	ton	8,056	54,120	7,453	53,370
Lignite coal .....	ton	...	...	163	1,270
Coke .....	ton	60	690	21	867
Gasoline .....	Imp. gal.	3,790	2,299	27,247	8,478
Kerosene .....	Imp. gal.	945	150	559	110
Fuel oil .....	Imp. gal.	292,204	24,255	515,533	34,100
Wood .....	cord	127	340	144	743
Gas - Manufactured .....	M cu. ft.	8,313	6,775	3,654	8,760
Natural .....	M cu. ft.	5,261	2,190	4,962	1,506
Other fuel .....	...	...	413	...	893
Electricity purchased ....	K.W.H.	4,267,642	80,925	4,537,047	87,359
TOTAL .....	...	...	211,115	...	243,072

Table 7 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1940 and 1941 (During one week in month of highest employment; overtime included)

Hours worked per week	Number of wage-earners		Hours worked per week	Number of wage-earners	
	1940	1941		1940	1941
30 hours or less ....	49	139	51 - 54 hours .....	225	264
31 - 43 hours .....	656	421	55 hours .....	16	42
44 hours .....	376	1,124	56 - 64 hours .....	267	292
45 - 47 hours .....	429	557	65 hours and over ...	53	32
48 hours .....	236	212	TOTAL .....	2,935	3,252
49 - 50 hours .....	95	109	Total wages paid in selected week ... \$	51,508	61,051

Medicinals

Table 3 - POWER EQUIPMENT, 1940 and 1941

Kinds	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 0</u>				
Hydraulic turbines, or water wheels	...	...	...	...
Steam engines and steam turbines ..	6	136	...	...
Gasoline, gas and oil engines .....	6	1	...	...
Total Primary Equipment .....	12	137	...	...
Electric motors operated by purchased power .....	1,863	4,473	41	104
TOTAL .....	1,880	4,610	41	104
Stationary boilers .....	46	3,581	6	780
<u>1 9 4 1</u>				
Hydraulic turbines, or water wheels	...	...	...	...
Steam engines and steam turbines ..	7	336	1	125
Gasoline, gas and oil engines .....	6	1	...	...
Total Primary Equipment .....	13	387	1	125
Electric motors operated by purchased power .....	2,133	4,539	42	110
TOTAL .....	2,146	4,926	43	235
Stationary boilers .....	43	3,573	7	1,005

Table 3 - MATERIALS USED IN MANUFACTURING, 1940 and 1941

Materials	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Acetylsalicylic acid .....	lb.	226,530	122,012	310,606	164,515
Boric acid .....	lb.	181,262	15,485	253,327	20,687
Citric acid .....	lb.	247,557	65,888	332,463	111,479
Tartaric acid .....	lb.	483,453	135,388	582,286	326,617
Bismuth metal .....	lb.	30,076	36,454	30,993	38,138
Bismuth salts .....	lb.	13,527	26,136	14,159	22,251
Caffeine .....	lb.	9,086	24,869	11,833	51,443
Cod liver oil .....	lb.	68,634	159,519	82,576	213,844
Essential oils .....	...	...	139,706	...	213,440
Ethyl alcohol .....	proof gal.	182,083	351,951	201,813	410,929
Glycerine, refined .....	lb.	692,620	109,026	788,899	131,535
Gums, including camphor ...	lb.	192,887	52,597	180,926	82,501
Iodine, crude .....	lb.	87,874	120,901	125,600	204,319
Mineral oil, white .....	lb.	323,545	98,986	1,004,256	112,974
Herbs, roots and other drugs	...	...	136,272	...	284,292
Magnesium sulphate .....	lb.	925,948	31,554	1,043,110	35,339
Menthol .....	lb.	12,758	24,930	12,091	55,922
Mercury metal .....	lb.	30,246	91,152	67,607	173,564
Nitric acid, 42° .....	lb.	3,123	613	4,177	1,115
Petrolatum .....	lb.	539,816	48,601	641,306	59,137
Phenol .....	lb.	12,608	3,785	20,111	6,256



Table 9 - MATERIALS USED IN MANUFACTURING, 1940 and 1941 (Concluded)

Materials	Unit of measure	1 9 4 0		1 9 4 1	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Potassium iodide .....	lb.	6,923	11,207	2,560	16,261
Potassium sodium tartrate (Rochelle salt) .....	lb.	97,740	23,316	99,159	50,301
Silver bullion .....	Troy oz.	44,373	17,821	90,203	35,912
Sodium bicarbonate .....	lb.	1,034,798	32,598	1,203,332	36,293
Sodium hydroxide .....	lb.	132,711	5,628	180,282	7,171
Sodium salicylate .....	lb.	11,051	4,125	13,694	7,410
Sodium sulphate .....	lb.	41,492	1,220	68,835	3,073
Sulphur .....	lb.	81,859	3,320	116,646	4,172
Talc .....	lb.	674,205	21,131	1,159,224	29,912
Chalk .....	lb.	232,210	10,542	358,687	25,667
Sugar .....	lb.	2,705,555	165,233	3,042,443	215,532
All other materials .....	...	...	5,701,629	...	6,794,184
Containers .....	...	...	3,017,091	...	3,526,156
<b>TOTAL</b> .....	...	...	<b>10,896,929</b>	...	<b>13,486,811</b>

Table 10 - PRODUCTS MADE, 1940 and 1941

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. The figures for the individual items do not necessarily represent the total output in Canada as those articles may have been produced by concerns which have been classified to other industrial groups. For the total Canadian output of medicinals see Table 11.

Products	Selling value at the works	
	1 9 4 0 \$	1 9 4 1 \$
Medicines and Pharmaceuticals -		
Standard (pharmacopoeial or defined in other standard works) .....	4,600,214	6,792,554
Specialties registered as patent medicines .....	5,203,338	7,083,602
Specialties sold with ingredients declared .....	10,075,509	12,379,508
Biological preparations (vaccines, serums, etc.) .....	762,488	379,449
Disinfectants .....	69,850	73,847
Insecticides .....	196,311	261,394
Flavouring extracts .....	352,292	625,163
Toilet preparations .....	1,736,975	2,404,300
All other products (x) .....	6,573,891	4,264,581
<b>TOTAL</b> .....	<b>29,571,468</b>	<b>35,471,898</b>

(x) Includes absorbent gauze, sanitary towels, confectionery, packaged goods, dental supplies, surgical bandages, protective dressings, and other such articles.

Table 11 - PRODUCTION(x), IMPORTS AND EXPORTS OF MEDICINALS AND PHARMACEUTICALS IN CANADA, 1927 - 1941

Year	Production (Selling value at factory)	Imports	Exports
	⌘	⌘	⌘
1927 .....	12,375,433	2,907,268	487,904
1928 .....	13,343,488	3,715,028	590,049
1929 .....	14,358,505	2,730,193	808,981
1930 .....	13,931,292	3,652,434	633,445
1931 .....	13,610,975	3,309,071	372,369
1932 .....	13,015,912	2,832,025	817,701
1933 .....	13,912,045	2,533,168	634,156
1934 .....	14,316,005	2,600,496	736,787
1935 .....	15,360,980	2,824,034	738,026
1936 .....	16,223,419	3,207,300	1,276,440
1937 .....	17,547,452	3,510,064	1,443,231
1938 .....	17,447,328	3,378,899	1,566,422
1939 .....	19,191,562	3,991,383	1,499,593
1940 .....	20,791,132	4,357,292	1,312,958
1941 .....	27,658,294	5,025,281	1,807,069

(x) Production figures represent the total Canadian production, including some medicinals made in other industries.

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