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ANNUAL INDUSTRY REPORT

CHEMICALS AND ALLIED PRODUCTS GROUP

THE MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDUSTRY, 1942

Production by the manufacturing plants in Canada which were engaged chiefly in making patent and proprietary medicines, pharmaceuticals and similar commodities, was valued at \$41,983,247 at factory prices in 1942 compared with \$35,471,898 in 1941 and \$29,571,468 in 1940.

Of the 200 factories in this group in 1942, 101 were located in Ontario, 32 in Quebec, 7 in Manitoba, 2 in British Columbia, 1 in Nova Scotia, 4 in Alberta, 2 in Saskatchewan, and 1 in New Brunswick. Capital employed in manufacturing was reported at \$36,494,104, of which \$8,946,123 was the value of land, buildings and equipment, \$13,620,910 was the value of inventories and \$13,927,071 was cash and other operating capital. The average number of employees in 1942 was 5,560 compared with 5,026 in the previous year and payments in salaries and wages totalled \$8,000,240 as against \$6,921,081 in 1941. Plants in Ontario produced 56 per cent of the Canadian output and concerns in Quebec accounted for 41 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 \$33,199,537 in 1942 compared with \$28,103,936 in 1941 and \$21,118,552 in 1940.

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Medicinals

Table 1 - PRINCIPAL STATISTICS, 1933-1942

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 \$
1933	168	17,402,705	3,169	3,850,228	130,616	5,774,391	17,063,849
1934	180	20,041,129	3,506	4,036,409	148,760	6,587,569	19,484,094
1935	166	20,091,688	3,664	4,500,252	157,102	7,009,191	21,292,751
1936	169	20,760,912	3,857	4,797,458	169,633	7,384,370	22,251,550
1937	174	22,780,119	4,236	5,311,120	175,551	8,808,929	24,814,647
1938	171	23,508,341	4,270	5,690,826	192,377	8,566,007	24,536,474
1939	174	25,282,626	4,388	5,906,891	189,899	9,804,525	27,184,262
1940	167	28,158,494	4,550	6,293,759	211,115	10,296,929	29,571,468
1941	169	31,223,170	5,026	6,921,081	243,072	13,486,811	35,471,898
1942	200	36,494,104	5,560	8,000,240	290,102	16,308,496	41,983,247
Per cent change 1942 from 1941..	...	+16.9	+10.6	+15.6	+19.4	+20.9	+18.4

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, 1941 and 1942

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 \$
1941							
Quebec	68	11,672,573	2,028	2,801,499	133,547	5,805,970	14,190,260
Ontario	88	17,697,458	2,830	3,917,391	98,982	7,127,650	19,778,888
Manitoba	7	1,560,881	128	165,445	8,930	499,010	1,245,876
British Columbia	2)						
Nova Scotia ..	1)	292,258	40	36,746	1,613	54,181	256,374
New Brunswick.	1)						
Alberta	2)						
CANADA	169	31,223,170	5,026	6,921,081	243,072	13,486,811	35,471,898
1942							
Quebec	82	13,424,902	2,206	3,144,250	156,878	6,987,501	17,003,098
Ontario	101	21,166,898	3,179	4,649,811	122,178	8,734,348	23,414,321
Manitoba	7	1,597,223	132	164,524	9,071	522,973	1,292,270
Alberta	4	32,510	4	5,984	531	8,112	17,667
British Columbia	2)						
Nova Scotia ..	1)	272,571	39	35,671	1,444	55,562	255,891
New Brunswick.	1)						
Saskatchewan..	2)						
CANADA	200	36,494,104	5,560	8,000,240	290,102	16,308,496	41,983,247

Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1941 and 1942 (On the last day of the year)

Province	Present value of land, buildings, machinery and equipment	Value of Inventories		Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
<u>1941</u>					
Quebec	3,274,677	3,070,956	1,282,172	4,044,768	11,672,573
Ontario	3,873,927	4,025,219	2,519,443	7,278,869	17,697,458
Manitoba	294,727	425,602	161,478	679,074	1,560,881
Other provinces	66,597	82,183	71,820	71,658	292,258
CANADA	7,509,928	7,603,960	4,034,913	12,074,369	31,223,170
<u>1942</u>					
Quebec	4,082,217	3,498,881	1,467,175	4,376,629	13,424,902
Ontario	4,349,569	5,144,540	2,683,428	8,989,361	21,166,898
Manitoba	442,417	515,540	140,554	498,712	1,597,223
Alberta	19,550	4,980	2,160	5,820	32,510
Other provinces	52,370	104,096	59,556	56,549	272,571
CANADA	8,946,123	9,268,037	4,352,873	13,927,071	36,494,104

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1941 and 1942

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
					\$	\$	\$	
<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	1,426,197	3,917,391
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
<u>1942</u>								
Quebec	554	355	614	683	2,206	1,983,025	1,161,225	3,144,250
Ontario	810	697	649	1,023	3,179	2,957,266	1,692,545	4,649,811
Manitoba	20	17	51	44	132	57,783	106,741	164,524
Alberta	3	...	...	1	4	5,460	524	5,984
Other provinces	4	1	10	24	39	7,012	28,659	35,671
CANADA	1,391	1,070	1,324	1,775	5,560	5,010,546	2,989,634	8,000,240

Medicinals

Table 5 - WAGE-EARNERS, BY MONTHS, 1941 and 1942 (On the last work-day of each month)

Month	1 9 4 1			1 9 4 2		
	Male	Female	TOTAL	Male	Female	TOTAL
January	1,158	1,376	2,534	1,298	1,617	2,915
February	1,178	1,426	2,604	1,303	1,652	2,955
March	1,184	1,479	2,663	1,303	1,711	3,014
April	1,204	1,456	2,660	1,298	1,709	3,007
May	1,217	1,482	2,699	1,287	1,748	3,035
June	1,215	1,510	2,725	1,314	1,732	3,046
July	1,207	1,497	2,704	1,314	1,684	2,998
August	1,259	1,585	2,844	1,320	1,769	3,089
September	1,288	1,686	2,974	1,314	1,817	3,131
October	1,307	1,720	3,027	1,299	1,906	3,205
November	1,312	1,677	2,989	1,331	2,022	3,353
December	1,310	1,637	2,947	1,396	1,954	3,360
AVERAGE	1,241	1,537	2,778	1,324	1,775	3,099

Table 6 - FUEL AND ELECTRICITY USED, 1941 and 1942

Kind	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
Anthracite coal	ton	1,121	11,716	1,043	12,246
Bituminous coal - Canadian	ton	5,931	33,400	3,515	26,686
Imported	ton	7,453	53,870	12,850	103,300
Lignite coal	ton	163	1,270	14	74
Coke	ton	71	867	20	253
Gasoline	Imp.gal.	27,247	8,478	22,071	7,689
Kerosene	Imp.gal.	559	110	1,024	187
Fuel oil	Imp.gal.	515,533	34,100	333,815	27,871
Wood	cord	144	743	121	851
Gas - Manufactured	M cu.ft.	9,654	8,760	12,921	10,910
Natural	M cu.ft.	4,962	1,506	8,457	1,435
Other fuel .....	...	...	893	...	1,990
Electricity purchased	K.W.H.	4,537,047	87,359	5,515,023	96,610
TOTAL .....	...	...	243,072	...	290,102

Table 7 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 and 1942 (During one week in month of highest employment; overtime included)

Hours worked per week	Number of Wage-earners	
	Male	Female
	<u>1 9 4 1</u>	
30 hours or less	47	92
31-43 hours	100	321
44 hours	374	750
45-47 hours	246	311
48 hours	106	106
49-50 hours	77	32
51-54 hours	101	163
55 hours	29	13
56-64 hours	206	86
65 hours and over	76	16
TOTAL	1,362	1,890
Total wages paid in selected week	34,526	26,525

Table 7 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 and 1942 (During one week in month of highest employment; overtime included) (Concluded)

Hours worked per week	Number of Wage-earners	
	Male	Female
	<u>1</u>	<u>9</u>
30 hours or less	51	83
31-43 hours	138	553
44 hours	364	623
45-47 hours	242	459
48 hours	136	162
49-50 hours	89	42
51-54 hours	97	121
55 hours	27	7
56-64 hours	176	69
65 hours and over	30	12
TOTAL	1,450	2,131
Total wages paid in selected week	\$ 38,968	32,162

Table 8 - POWER EQUIPMENT, 1941 and 1942

Kind	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
	<u>1</u>	<u>9</u>	<u>4</u>	<u>1</u>
Hydraulic turbines, or water wheels	...	...	...	...
Steam engines and steam turbines ..	7	386	1	125
Gasoline, gas and oil engines	6	1	...	...
Total Primary Equipment	13	237	1	125
Electric motors operated by purchased power	2,133	4,599	42	110
TOTAL	2,146	4,986	43	235
Stationary boilers	43	3,573	7	1,005
	<u>1</u>	<u>9</u>	<u>4</u>	<u>2</u>
Hydraulic turbines, or water wheels	4	3	...	...
Steam engines and steam turbines ..	10	234	2	15
Gasoline, gas and oil engines	6	1	...	...
Total Primary Equipment	20	238	2	15
Electric motors operated by purchased power	2,106	4,360	38	175
TOTAL	2,126	5,098	40	190
Stationary boilers	46	3,666	7	980
Motor generator sets	4	78	1	1

Table 9 - MATERIALS USED IN MANUFACTURING, 1941 and 1942

Material	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Acetylsalicylic acid	lb.	310,606	164,515	381,929	219,384
Boric acid	lb.	253,327	20,637	195,369	17,408
Citric acid	lb.	332,466	111,479	332,050	116,952
Tartaric acid	lb.	589,286	326,617	624,434	491,953
Bismuth metal	lb.	30,993	38,188	24,420	30,534
Bismuth salts	lb.	14,159	29,251	18,153	35,793

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Table 9 - MATERIALS USED IN MANUFACTURING, 1941 and 1942 (Concluded)

Material	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		1941		1942	
		Quantity		Quantity	
		Cost at works		Cost at works	
		\$		\$	
Caffeine	lb.	11,833	51,443	19,598	82,174
Cod liver oil	Imp.gal.	82,576	213,844	92,029	245,309
Essential oils .....	...	...	219,440	...	231,116
Ethyl alcohol	Proof gal.	201,818	410,929	201,280	398,364
Glycerine, refined	lb.	788,899	131,535	392,639	74,439
Gums, including camphor..	lb.	180,926	82,501	185,224	119,501
Iodine, crude	lb.	125,600	204,319	79,471	127,434
Mineral oil, white	lb.	1,004,256	112,974	1,090,887	150,281
Herbs, roots and other drugs	...	...	284,292	...	294,007
Magnesium sulphate	lb.	1,043,110	35,399	1,077,601	38,352
Menthol	lb.	12,091	55,992	11,643	78,541
Mercury metal	lb.	67,607	173,564	78,362	186,341
Nitric acid, 42°	lb.	14,177	1,115	53,620	4,306
Petrolatum	lb.	641,306	59,137	646,920	62,477
Phenol	lb.	20,111	6,256	16,121	4,811
Potassium idoide	lb.	9,560	16,961	12,550	23,224
Potassium sodium tartrate (Rochelle salt)	lb.	99,159	50,901	56,979	37,041
Silver bullion	Troy oz.	90,203	35,912	141,875	57,928
Sodium bicarbonate	lb.	1,203,332	36,293	1,321,720	40,615
Sodium hydroxide	lb.	180,282	7,171	250,353	10,178
Sodium salicylate	lb.	13,694	7,410	15,997	11,970
Sodium sulphate	lb.	68,835	3,073	79,188	4,626
Sulphur	lb.	116,646	4,172	113,273	6,301
Talc	lb.	1,159,924	29,912	1,426,786	31,788
Chalk - Ground	lb.)	358,687	25,667	146,086	4,270
Precipitated	lb.)			247,112	30,982
Sugar	lb.	3,042,443	215,532	3,086,492	229,019
All other materials .....	...	...	6,794,184	...	8,957,249
Containers .....	...	...	3,526,156	...	3,953,374
TOTAL .....	...	...	13,486,811	...	16,308,496

Table 10 - PRODUCTS MADE, 1941 and 1942

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 11.

Product	Selling value at the works	
	1 9 4 1	1 9 4 2
		\$
		\$
Medicines and Pharmaceuticals -		
Standard (pharmacopoeial or defined in other standard works)	6,793,554	8,482,763
Specialties registered as patent medicines	7,083,602	7,880,917
Specialties sold with ingredients declared	12,379,508	15,478,831
Biological preparations (vaccines, serums, etc.)	879,449	1,113,201
Disinfectants	79,847	95,042
Insecticides	261,894	285,747
Flavouring extracts	625,163	549,474
Toilet preparations	2,404,300	2,306,246
All other products (x)	4,964,581	5,791,026
TOTAL	35,471,898	41,983,247

(x) Includes absorbent gauze, sanitary towels, packaged goods, etc.

Medicinals

Table 11 - PRODUCTION (x), IMPORTS AND EXPORTS OF MEDICINALS AND PHARMACEUTICALS IN CANADA, 1927-1942

Year	Production (Selling value at factory)	Imports	Exports
	\$	\$	\$
1927	12,875,455	2,907,268	487,904
1928	13,343,483	3,715,028	590,049
1929	14,858,505	2,730,193	808,981
1930	13,931,292	3,652,434	633,445
1931	13,610,975	3,309,071	372,969
1932	13,015,912	2,832,025	817,701
1933	13,912,045	2,588,168	634,155
1934	14,316,005	2,600,496	796,787
1935	15,360,980	2,324,034	738,026
1936	16,223,419	3,207,300	1,278,440
1937	17,547,432	3,510,064	1,443,231
1938	17,447,328	3,378,899	1,566,422
1939	19,191,562	3,991,883	1,499,593
1940	21,118,552	4,337,292	1,312,958
1941	28,103,936	5,025,881	1,807,069
1942	33,199,537	5,524,286	2,606,591

Production figures represent the total Canadian production, including some medicinals made in other industries. 1942 figures are subject to revision.

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