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CHEMICALS AND ALLIED PRODUCTS

PRELIMINARY SUMMARY STATISTICS, 1944

Although Canada's chemical and allied industries continued to operate at close to peak levels during most of 1944, the preliminary production values which have just become available indicate an over-all decline of about 6 per cent from the record output in 1943. This was due, apparently, to slightly lower schedules for ammunition and propellants in the early months of the year as there were about equal gains and losses amongst the other industries in this group. The value for 1944 has been placed at \$719.9 millions, which is more than four times the best pre-war total of \$159.5 millions established in 1939. The shell filling and small arms ammunitions industries account for a very large share of the totals in the war years, and if these were excluded the value for 1944 would be \$364 millions compared with \$359 millions in 1943, and \$348 millions in 1942.

In 1944 there were 955 operating establishments in the chemicals and allied industries, and these were distributed across the country as follows: 318 in Quebec, 489 in Ontario, 61 in British Columbia, 39 in Manitoba, 17 in Alberta, 14 in Nova Scotia, 9 in Saskatchewan, 7 in New Brunswick and 1 in Prince Edward Island. The works in Quebec accounted for 50 per cent of the production and those in Ontario for 42 per cent. The average employment in all these works was 81,895, including about 39,000 in shell-filling and small arms ammunition, and salaries and wages for the year totalled \$135.7 millions.

Seven of the industries in this group showed declines in output values in 1944 and six showed increases. The percentage losses were as follows: the miscellaneous group, including shell filling, 10.9; heavy chemicals, 2.2; paints 3.8; compressed gases 1.1; coal tar distillation 4.6; hardwood distillation 11.1; and adhesives 3.0. The gains were: fertilizers 14.4; medicinals 7.9; soaps 3.1; toilet preparations 8.4; inks 5.4; and polishes 11.0 per cent.

Imports of chemicals and allied products were higher in 1944 than ever before, amounting to \$80.8 millions or 14.6 per cent more than in 1943. The principal gains were in explosives, pigments and in miscellaneous chemicals, which included quite large amounts of butadiene. The United States supplied 86 per cent of the receipts in this category and the United Kingdom accounted for 10 per cent.

Exports were also much greater in 1944, being valued at \$100.7 millions or 16.5 per cent over the 1943 figure. Explosives, fertilizers, ethyl alcohol, cyanamide, sodium compounds, acetic acid and vinyl resins were the more important items for shipment to other countries. Forty-seven per cent of the total went to the United States and 24 per cent to the United Kingdom.

Table 1 - PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS IN CANADA, BY INDUSTRIES, 1943 and 1944

Industry	Average		Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
	Number of plants	number of employees				
			\$	\$	\$	\$
<u>1943</u>						
Coal tar distillation.	10	424	789,335	326,448	4,059,598	6,540,285
Heavy chemicals .....	38	8,045	15,057,723	8,502,717	27,714,019	78,359,453
Compressed gases .....	38	1,080	1,848,753	344,136	1,380,575	9,212,226
Fertilizers .....	26	2,204	4,314,742	1,141,339	19,036,806	27,105,357
Medicinals and pharmaceuticals .....	205	7,187	10,012,562	352,760	18,997,079	50,772,686
Paints, pigments and varnishes .....	96	4,589	8,261,723	510,324	22,754,700	45,067,845
Soaps and washing compounds .....	134	3,220	5,853,026	662,038	16,625,211	31,491,328
Toilet preparations ..	86	1,889	2,386,033	51,749	5,123,030	15,510,204
Inks .....	32	571	1,283,869	41,837	1,920,857	4,657,465
Hardwood distillation.	6	297	373,457	278,976	961,590	1,722,828
Adhesives .....	22	651	1,091,721	211,889	3,037,649	5,736,151
Polishes and dressings	52	703	908,219	30,652	3,559,818	6,382,042
Miscellaneous (x) ....	200	61,428	94,496,031	5,198,687	242,940,411	482,660,017
TOTAL .....	945	92,288	146,677,194	17,653,352	368,111,343	765,217,887
<u>1944 (Preliminary)</u>						
Coal tar distillation.	10	433	845,682	339,684	3,454,962	6,236,616
Heavy chemicals .....	36	7,965	15,565,527	8,810,685	27,214,381	76,738,723
Compressed gases .....	40	1,226	2,176,448	355,358	1,284,227	9,109,553
Fertilizers .....	26	2,249	4,492,274	1,152,078	17,115,623	31,009,207
Medicinals and pharmaceuticals .....	201	7,507	11,591,181	352,602	21,729,620	54,792,737
Paints, pigments and varnishes .....	97	4,230	7,635,826	454,315	22,166,488	43,365,220
Soaps and washing compounds .....	132	3,118	5,611,338	603,450	17,298,953	32,586,539
Toilet preparations ..	91	2,024	2,578,312	41,325	5,962,265	16,828,159
Inks .....	32	598	1,315,828	45,449	2,085,379	4,917,337
Hardwood distillation.	5	291	418,733	245,190	915,300	1,528,022
Adhesives .....	23	661	1,089,067	220,061	3,069,418	5,578,446
Polishes and dressings	51	687	955,699	30,753	3,912,682	7,179,974
Miscellaneous (x) ....	211	50,906	81,396,351	5,220,792	205,489,370	430,075,130
TOTAL .....	955	81,895	135,672,266	17,871,742	331,698,668	719,945,663
Per cent change, 1944						
from 1943 .....	...	-11.3	-7.5	+1.2	-9.9	-5.9

(x) Includes explosives and ammunition filling.

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



Table 2 - PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS  
IN CANADA, BY PROVINCES, 1943 and 1944

Province	Number of plants	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>1943</u>						
Nova Scotia and Prince Edward Island .....	15	387	583,781	104,625	2,577,147	4,520,342
New Brunswick ..	8	300	424,902	35,739	2,623,304	3,674,722
Quebec .....	310	53,482	82,261,382	7,277,340	131,742,322	371,789,166
Ontario .....	484	32,137	52,590,733	7,705,234	211,897,880	338,236,584
Manitoba .....	39	3,035	4,933,881	505,310	6,998,096	14,863,116
Saskatchewan ...	9	91	121,962	11,283	222,890	515,040
Alberta .....	19	507	946,073	588,986	584,436	3,301,024
British Columbia	61	2,349	4,814,480	1,425,035	11,465,268	28,317,893
CANADA .....	945	92,288	146,677,194	17,653,552	368,111,345	765,217,887

1944(Preliminary)

Nova Scotia and Prince Edward Island .....	15	411	620,249	109,108	2,725,208	4,528,285
New Brunswick ..	7	303	455,649	32,273	2,785,227	3,873,535
Quebec .....	318	45,878	73,387,111	7,062,320	134,592,404	362,301,335
Ontario .....	489	29,206	50,234,507	7,804,207	172,974,977	301,820,701
Manitoba .....	39	3,121	5,022,864	599,255	8,446,027	16,082,173
Saskatchewan ...	9	108	140,496	11,853	259,319	562,131
Alberta .....	17	514	949,584	546,085	982,493	5,160,912
British Columbia	61	2,354	4,861,806	1,706,641	8,933,013	25,616,591
CANADA .....	955	81,895	135,672,266	17,871,742	331,698,668	719,945,663

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