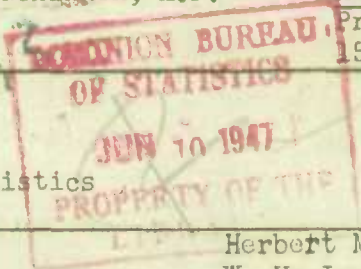


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Department of Trade and Commerce
Dominion Bureau of Statistics
Census of Industry
Mining, Metallurgical and Chemical Statistics
Ottawa - Canada



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PRELIMINARY REPORT ON CHEMICALS AND ALLIED PRODUCTS, 1946

Output from the chemicals and allied industries in 1946 totalled \$356 millions compared with \$462 millions in 1945. While these figures indicate a decline of 23 per cent in last year's operations, it should be remembered that there was still a very large volume of war production in 1945, especially from the shell-filling and small arms ammunition plants, which probably should not have been included in the chemical industries in any case. Omitting the data for these ammunition works, the total output values for the chemicals and allied products were as follows:

	<u>Millions of \$</u>
1939	159
1940	193
1941	273
1942	348
1943	359
1944	371
1945	362
1946	356

On this basis, the decline in 1946 was less than 2 per cent, but the outstanding fact revealed by the statistics that are presented in this report is not that there was a slight drop from the 1945 level of production, but that in its first full post-war year the industry operated at more than double the rate attained in 1939, the best pre-war year, when output reached a total of only \$156 millions. Higher prices for the products of these industries probably account for about 12 per cent of this rise in production, but after allowing for such increases, it appears that the advance in physical volume of output was close to one hundred per cent. The output of paints was up 106 per cent in value; medicinals increased 136 per cent; fertilizers advanced 283 per cent, and so on for all industries in the group, as follows:

	<u>Production</u>		<u>Per cent increase</u>
	<u>1939</u>	<u>1946</u>	
	\$	\$	
Coal tar distillation	3.6	5.2	44
Heavy chemicals	23.0	44.6	94
Compressed gases	4.0	8.6	115
Fertilizers	13.2	50.6	283
Medicinals	27.2	64.2	136
Paints	25.9	53.4	106
Soaps	20.1	37.4	86
Toilet preparations..	6.9	18.9	174
Inks	3.5	5.6	60
Hardwood distillation	0.7	1.4	100
Adhesives	2.1	6.3	200
Polishes	3.5	9.0	257
Miscellaneous	22.2	50.7	228
Total	156.0	356.0	128

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It appears that the chemical industries have emerged from the war in a slightly better position than industry as a whole. The official index of the physical volume of business for all manufactures in Canada, as compiled by the Dominion Bureau of Statistics, averaged 188.4 in 1946, calculated on a base of 1935-1939 equal to 100. This indicates a gain of 88 per cent for industry in general compared with about 100 per cent for the chemical group. Quite a number of the government wartime chemical projects have now been taken over by private companies and have become part of the permanent industry. For example, the North American Cyanamid Company Limited has recently purchased the huge plant of the Welland Chemicals Limited, and the Consolidated Mining and Smelting Company of Canada Ltd. has taken over the ammonia plant at Trail, British Columbia and also the works at East Calgary which was formerly operated by Alberta Nitrogen Limited. These works, which were begun when the bombing of Britain was at its height, were intended to insure an adequate supply of ammonia and ammonium nitrate for military purposes. At present they are operating near to capacity on 'Nitraprills' for fertilizer use. Similarly, some other important special war units have been absorbed into the industry.

In 1946, there were about 968 establishments making chemicals and allied products, and a monthly average of 36,000 workers were employed. About \$148 millions were expended by the industry during the year for materials for manufacturing, \$13 millions for fuel and power, and \$72 millions for labour. The 509 works in Ontario accounted for 53 per cent of the production, and the 318 establishments in Quebec accounted for 33 per cent.

PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS IN CANADA,
BY INDUSTRIES, 1945 and 1946

Industry	Number of plants	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
<u>1945</u>						
Coal tar distillation.	10	381	727	342	3,356	5,616
Heavy chemicals	33	6,887	14,218	8,565	19,683	63,477
Compressed gases	41	1,097	1,934	348	1,269	8,430
Fertilizers	26	2,146	4,419	1,116	18,708	34,506
Medicinals and pharma- ceuticals	204	8,339	12,733	411	22,942	60,331
Paints and varnishes..	90	4,979	8,947	426	24,532	48,396
Soaps and washing com- pounds	134	3,210	5,874	649	18,366	31,549
Toilet preparations ..	94	2,226	2,842	52	7,053	18,993
Inks	31	641	1,341	47	2,138	5,037
Hardwood distillation.	5	242	375	195	844	1,407
Adhesives	20	576	1,067	166	2,526	5,420
Polishes and dressings	51	739	1,032	37	4,219	8,091
Miscellaneous (*)	236	28,072	46,010	3,490	72,361	170,930
TOTAL	975	59,535	101,619	15,844	197,997	462,183

(*) Includes explosives, plastics, insecticides, matches, etc.

PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS IN CANADA,
BY INDUSTRIES, 1945 and 1946
(Concluded)

Industry	Number of plants	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
(000's of dollars)						
<u>1946 (Preliminary)</u>						
Coal tar distillation.	10	386	716	310	2,960	5,193
Heavy chemicals	27	4,983	10,053	5,608	12,932	44,560
Compressed gases	42	1,107	2,026	375	1,275	8,628
Fertilizers	28	3,200	7,320	4,038	23,745	50,642
Medicinals and pharma- ceuticals	213	8,050	13,114	423	23,467	64,186
Paints and varnishes..	95	5,125	9,657	470	27,096	53,381
Soaps and washing com- pounds	145	2,389	6,488	665	18,611	37,445
Toilet preparations ..	94	2,064	2,818	52	7,088	18,920
Inks	30	583	1,391	48	2,399	5,562
Hardwood distillation.	5	243	375	196	837	1,433
Adhesives	21	623	1,142	190	3,395	6,284
Polishes and dressings	54	755	1,079	38	4,896	9,035
Miscellaneous (*)	204	6,769	16,266	1,103	19,887	50,701
TOTAL	968	36,277	72,445	13,516	148,588	355,970
Per cent change, 1946 from 1945	-39.3	-28.8	-14.8	-24.9	-22.9

(*) Includes explosives, plastics, insecticides, matches, etc.

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