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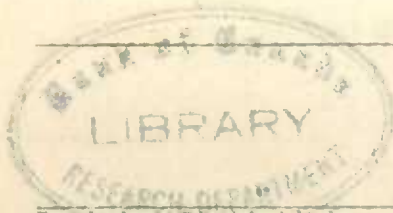
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CHEMICALS AND ALLIED PRODUCTS IN CANADA

FINAL SUMMARY STATISTICS - 1947

Output from the chemicals and allied products industries in 1947 totalled \$450 millions compared with \$376 millions in 1946. The 1947 value was the highest attained in any peace-time year, and if shell filling were excluded it was greater also than the total value for this group in any of the war years.

Apparently the 20 per cent increase in value was due chiefly to advances in prices for chemicals and chemical products. The volume index for the chemical group indicates a gain of 6 per cent and the index of employment was up only 2 per cent from 1946, but on the other hand the index of wholesale prices advanced 13 per cent. Probably it is safe to conclude that about one-third of the gain in 1947 was due to greater volume of production, while two-thirds of the advance was due to the higher prices realized on the products of the industries in this group.

In 1947 there were substantial increases in output in ten of the twelve industries into which the group has been divided for statistical purposes. The percentage gains were as follows: coal tar distillation, 11.6; heavy chemicals, 25.4; compressed gases, 15.6; fertilizers, 17.6; paints and varnishes, 23.2; soaps and cleaning preparations, 39.0; miscellaneous, 85.6; inks, 12.5; adhesives, 9.3; and medicinals, 4.8. The toilet preparations industry showed a decline of 16.5 per cent and output from the polishes industry decreased by 8.6 per cent. The plastics moulding and fabricating industry was taken out of the chemical group in 1947, but this loss was offset by the inclusion of the synthetic rubber industry for the first time.

In 1947 there were 1,031 establishments making chemicals and allied products and a monthly average of 38,491 workers were employed. About \$205 millions were expended by the industry during the year for materials for manufacturing, \$16 millions for fuel and power, and \$77 millions for labour. The 530 works in Ontario accounted for 55 per cent of the production, and the 334 establishments in Quebec accounted for 31 per cent.

The value of imports of chemicals and allied products in 1947 was the highest on record at \$113 millions, an increase of 22 per cent from 1946 and nearly three times the pre-war high of \$43.7 millions in 1939. About 88.6 per cent of the imports in 1947 came from the United States and 5.6 per cent from Great Britain.

The value of exports in 1947 was \$83.8 millions, which was 24 per cent greater than in 1946 but considerably below the high of \$111.3 millions in 1945. Canada's chemical products went to almost every country in the world. The United States, which took 38 per cent of the total, was the best customer, and the United Kingdom which took only 9.7 per cent was second. About 5 per cent went to China and 3 per cent to each of France, British India, Netherlands, British South Africa, Newfoundland and Hawaii. Exports in pre-war years were from \$20 to \$25 millions annually.

Table 1 - PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS IN CANADA, BY INDUSTRIES,
1946 and 1947

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 \$
Coal tar distillation	11	410	740,619	341,482	3,116,167	5,509,727
Heavy chemicals	29	5,338	11,158,999	6,431,503	14,650,883	47,301,400
Compressed gases	42	1,064	1,961,493	314,524	1,258,423	8,308,028
Fertilizers	29	2,805	5,929,796	3,232,099	22,865,328	49,992,443
Medicinals and pharmaceuticals...	201	7,670	12,832,173	440,585	23,163,222	67,049,834
Paints and varnishes	98	5,006	8,847,406	466,512	28,733,401	56,729,620
Soaps and washing compounds	150	3,219	6,213,581	645,786	19,268,952	38,274,818
Toilet preparations	95	1,995	2,729,367	53,492	7,622,735	20,117,113
Inks	30	653	1,330,097	59,062	2,770,760	6,244,348
Hardwood distillation	4	170	238,305	65,459	540,228	999,790
Adhesives	22	674	1,223,032	222,384	3,749,579	6,784,313
Polishes and dressings	48	726	1,096,194	39,851	5,258,115	9,558,330
Plastics (primary & moulded, etc.)	78	3,219	4,964,045	317,770	8,465,878	21,240,140
Miscellaneous (*)	184	4,329	7,275,425	709,963	17,844,679	38,178,060
TOTAL	1,021	37,273	66,538,532	13,340,472	159,308,350	376,288,264
Coal tar distillation	11	392	776,227	389,999	3,752,693	6,150,830
Heavy chemicals	31	5,541	12,928,796	7,053,019	19,059,360	59,318,463
Compressed gases	44	1,089	2,262,527	365,903	1,475,523	9,607,229
Fertilizers	31	3,258	7,283,119	2,465,076	27,417,467	58,784,345
Medicinals and pharmaceuticals ..	213	7,678	13,848,910	546,995	26,243,762	70,291,294
Paints and varnishes	109	5,428	10,876,496	526,551	38,322,293	69,912,278
Soaps and washing compounds	166	3,262	6,804,806	752,328	28,957,155	53,200,468
Toilet preparations	100	1,870	2,885,038	65,866	6,639,897	16,888,213
Inks	32	719	1,464,845	61,851	3,142,522	7,022,266
Hardwood distillation			Included under "Miscellaneous"			
Adhesives	26	729	1,551,084	274,789	4,303,021	7,415,610
Polishes and dressings	55	743	1,280,870	54,324	4,786,897	8,736,037
Plastics (primary only)	10	1,060	2,351,244	203,221	5,176,706	11,782,525
Miscellaneous (*)	203	6,722	13,165,757	2,872,533	36,263,849	70,850,184
TOTAL	1,031	38,491	77,479,719	15,632,455	205,541,145	449,959,792
Per cent change, 1947 from 1946..	+1.0	+3.2	+16.4	+17.2	+29.0	+19.6

(*) Includes explosives, insecticides, matches, etc.; also hardwood distillation and synthetic rubber in 1947.

Table 2 - PRINCIPAL STATISTICS FOR THE MANUFACTURE OF CHEMICALS AND ALLIED PRODUCTS IN CANADA, BY PROVINCES, 1946 and 1947

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>1946</u>						
Nova Scotia and Prince Edward Island	18	404	661,592	107,131	3,086,078	5,248,361
New Brunswick	8	222	413,410	41,715	2,741,396	3,894,551
Quebec	327	13,893	25,813,603	3,271,224	50,544,497	122,786,625
Ontario	538	19,351	34,791,639	6,809,199	87,690,705	199,676,206
Manitoba	37	654	991,259	75,175	3,487,987	6,929,111
Saskatchewan	11	106	162,413	15,547	360,230	963,089
Alberta	18	486	922,771	562,625	1,040,910	5,424,071
British Columbia	64	2,162	4,781,845	2,457,856	10,356,547	31,366,250
CANADA	1,021	37,278	66,538,532	13,340,472	159,308,350	376,288,264
<u>1947</u>						
Nova Scotia and Prince Edward Island	17	378	686,441	111,364	3,615,051	5,712,021
New Brunswick	7	196	394,643	56,757	3,472,316	4,912,551
Quebec	334	13,931	27,046,502	3,989,039	63,809,222	139,413,967
Ontario	530	20,259	41,479,219	9,552,145	116,005,850	250,185,950
Manitoba	37	631	1,079,517	78,070	3,928,939	7,302,723
Saskatchewan	9	100	171,920	14,284	409,601	952,139
Alberta	22	511	1,063,581	621,951	1,359,674	5,662,761
British Columbia	75	2,485	5,557,896	1,208,845	12,940,492	35,817,680
CANADA	1,031	38,491	77,479,719	15,632,455	205,541,145	449,959,792

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