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Published by Authority of Hon. H. H. Stevens, M.P.,  
Minister of Trade and CommerceAnnual Bulletin  
7-20-5-31  
1,000 copies

## DOMINION BUREAU OF STATISTICS - CANADA

Dominion Statistician: R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C. 1931

Mining, Metallurgical and Chemical Branch

Chief: W. H. Losee, B.Sc.

PRELIMINARY SUMMARY REPORT ON CHEMICALS AND ALLIED PRODUCTS IN CANADA, 1930.

Chemical production in Canada during 1930 showed a decline of 12 per cent in value from the total for the preceding year, according to preliminary figures of the Dominion Bureau of Statistics at Ottawa. The output value in 1930 was \$122,266,852 as compared with \$138,545,221 in 1929. However, the 1930 total was only slightly below the corresponding value for 1928 and exceeded the average for the past five years by \$1,379,159.

Imports of chemicals and allied products totalled \$36,785,050 during 1930 as against \$40,131,178 in 1929 and \$36,963,694 in 1928. Exports declined in value to \$18,320,506 from \$21,827,696 in 1929 and \$18,356,645 in 1928.

For statistical purposes, the chemical industry has been divided into 15 main groups; and in 1930 only 2 of these groups showed a higher production value than in the previous year. The fertilizers industry, covering those concerns engaged chiefly in the manufacture of mixed fertilizers, showed a gain of 12 per cent to \$2,514,305, and adhesives increased 5 per cent to \$1,930,012. The paint industry which, from point of value, was the most important of the chemical group, declined 9 per cent to \$24,739,678; acids, alkalies and salts dropped 30 per cent to \$19,607,383; medicinal and pharmaceutical preparations showed a reduction of 4 per cent to \$18,368,176; soaps and washing compounds, 5 per cent to \$18,240,329; explosives, ammunition and fireworks, 10 per cent to \$9,731,945, and the miscellaneous group, 12 per cent to \$8,240,615. The toilet preparations group declined 5 per cent to \$4,238,429; coal tar distillation, 12 per cent to \$3,334,067; compressed gases, 10 per cent to \$3,537,486; inks, 15 per cent to \$2,579,010; flavouring extracts, 5 per cent to \$1,711,819; wood distillation, 13 per cent to \$1,457,042; and polishes and dressings, 4 per cent to \$1,306,556.

In the 590 plants included in the chemical group in 1930 there was employed a total of 15,464 persons who were paid \$21,107,417 in salaries and wages over the yearly period. Capital employed was given at \$169,982,605. Purchased materials used in manufacturing cost \$49,013,269 at the works, and as the value of products made for sale was placed at \$122,266,852, the net production was \$73,253,583. Comparative figures for 1929 showed: number of plants, 557; capital, \$165,893,912; employees, 16,694; salaries and wages, \$22,639,449; cost of materials, \$55,124,337; value of

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products, \$138,348,221.

The chemical industry in Canada is centred to a large extent in Ontario and Quebec. In 1930 there were 312 establishments in Ontario and the output value was \$71,353,476, while in Quebec there were 175 works with an aggregate production worth \$38,083,773. British Columbia was third in importance with 39 plants in operation and output valued at \$4,919,955. Manitoba came next with 31 factories and a total production at \$3,762,385. Nova Scotia's 13 establishments produced \$2,296,867 worth of chemical products; 7 plants in New Brunswick made goods worth \$1,009,897, and Saskatchewan and Alberta were represented by 13 plants which had a combined output worth \$840,499.

Of the total imports of \$36,785,050 in 1930, about 65 per cent or \$23,961,296 were from United States, 13 per cent or \$4,708,121 from the United Kingdom, 10 per cent from Germany, 4 per cent from France, 3 per cent from the Netherlands, 2 per cent from Belgium, 1.5 per cent from Chile, and the remaining 1.5 per cent from other countries.

Of the total exports of \$16,320,506, over 55 per cent or \$9,003,346 was sold to United States and 20 per cent or \$3,331,632 to the United Kingdom.

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The National Academy of Sciences is pleased to receive the report of the committee on the subject of the proposed amendments to the constitution of the Academy. The committee has the honor to acknowledge the interest and assistance of the members of the Academy in the preparation of this report. The committee has also the honor to acknowledge the interest and assistance of the members of the Academy in the preparation of this report.

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TABLE 1 - PRINCIPAL STATISTICS. (z)

(a) Chemicals and Allied Products in Canada by Industries, 1926-1930

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
<u>COAL TAR DISTILLATION</u>							
1926 .....	9	4,004,311	152	219,292	1,811,543	2,967,281	1,155,738
1927 .....	10	4,115,151	179	258,178	2,286,134	3,616,532	1,330,398
1928 .....	10	4,696,588	210	324,935	2,657,572	4,190,823	1,533,251
1929 .....	10	4,982,333	242	383,970	2,653,555	5,318,050	1,159,495
1930 .....	10	4,959,617	222	325,116	2,327,253	3,321,067	979,514
<u>ACIDS, ALKALIES AND SALTS</u>							
1926 .....	19	34,589,930	2,040	3,075,649	3,643,507	18,526,247	14,882,890
1927 .....	16	31,134,457	1,881	2,858,644	4,090,509	17,086,788	12,996,279
1928 .....	16	40,024,624	2,517	3,490,409	4,998,088	21,256,286	16,258,198
1929 .....	15	49,417,431	2,897	4,338,686	6,301,121	28,021,972	21,720,851
1930 .....	16	51,964,568	2,379	3,462,834	4,664,476	19,607,383	14,942,917
<u>COMPRESSED GASES</u>							
1926 .....	24	3,799,733	360	521,824	435,729	2,422,486	1,986,757
1927 .....	25	4,177,794	404	604,417	550,793	2,625,698	2,074,903
1928 .....	25	4,226,037	426	652,893	412,587	3,145,884	2,666,297
1929 .....	28	4,995,560	542	770,424	785,377	3,967,416	3,182,039
1930 .....	31	5,020,875	472	737,240	468,541	3,567,486	3,098,945
<u>EXPLOSIVES, AMMUNITION AND FIREWORKS (x)</u>							
1926 .....	12	12,347,815	1,328	1,719,671	3,476,537	7,930,276	4,453,743
1927 .....	13	13,482,294	1,192	1,363,750	3,520,701	8,661,063	5,140,362
1928 .....	11	13,767,503	1,418	1,476,626	3,685,719	9,986,046	6,300,267
1929 .....	10	14,493,270	1,445	1,581,361	3,960,702	10,828,778	6,868,076
1930 .....	10	14,440,452	1,422	1,562,420	3,445,817	9,731,945	6,286,128
<u>PAINTS, PIGMENTS AND VARNISHES (x)</u>							
1926 .....	64	22,890,807	2,484	3,375,961	10,667,675	22,279,382	11,611,709
1927 .....	62	23,162,090	2,563	3,552,586	10,474,903	22,606,063	12,131,155
1928 .....	68	24,256,008	2,881	3,967,295	11,387,295	24,703,733	13,316,438
1929 .....	69	26,471,976	2,851	4,260,019	12,414,829	27,103,465	14,688,436
1930 .....	73	27,391,545	2,800	2,249,719	11,265,669	24,739,078	13,478,209
<u>SOAPS AND WASHING COMPOUNDS</u>							
1926 .....	62	14,609,530	1,499	1,993,871	9,528,595	14,847,018	5,290,422
1927 .....	62	16,120,456	1,549	2,036,783	9,890,020	15,528,100	5,638,530
1928 .....	71	17,991,003	1,800	2,160,696	10,190,307	16,998,726	6,308,219
1929 .....	61	18,152,849	1,854	2,578,507	11,002,034	19,218,726	8,216,692
1930 .....	58	18,514,462	1,654	2,403,026	10,155,499	13,240,829	8,085,330
<u>WOOD DISTILLATION</u>							
1926 .....	8	2,193,622	252	211,388	206,125	1,712,169	886,044
1927 .....	10	1,889,004	288	271,083	203,717	1,571,176	707,459
1928 .....	6	1,870,040	214	241,363	824,322	1,630,609	806,287
1929 .....	6	2,023,757	242	252,281	736,954	1,680,332	943,376
1930 .....	7	2,341,554	218	214,252	364,560	1,457,042	1,092,482
<u>ADHESIVES</u>							
1926 .....	15	1,569,001	240	328,597	866,464	1,710,095	843,651
1927 .....	14	1,593,196	261	357,034	921,301	1,934,240	1,013,108
1928 .....	14	1,805,699	283	345,152	984,301	1,956,865	972,564
1929 .....	13	1,850,273	267	321,296	962,940	1,830,644	867,704
1930 .....	13	1,923,361	273	338,142	1,080,327	1,930,012	849,625
<u>INKS</u>							
1926 .....	20	2,065,981	358	628,418	944,561	2,436,057	1,491,455
1927 .....	24	2,315,483	401	682,777	1,082,983	2,630,225	1,747,242
1928 .....	22	2,451,858	373	721,458	1,069,237	2,917,603	1,848,366
1929 .....	22	2,597,263	392	785,778	1,097,315	3,038,049	1,940,734
1930 .....	22	2,461,379	366	742,745	1,003,302	2,579,010	1,573,703

(z) Preliminary figures - subject to revision.

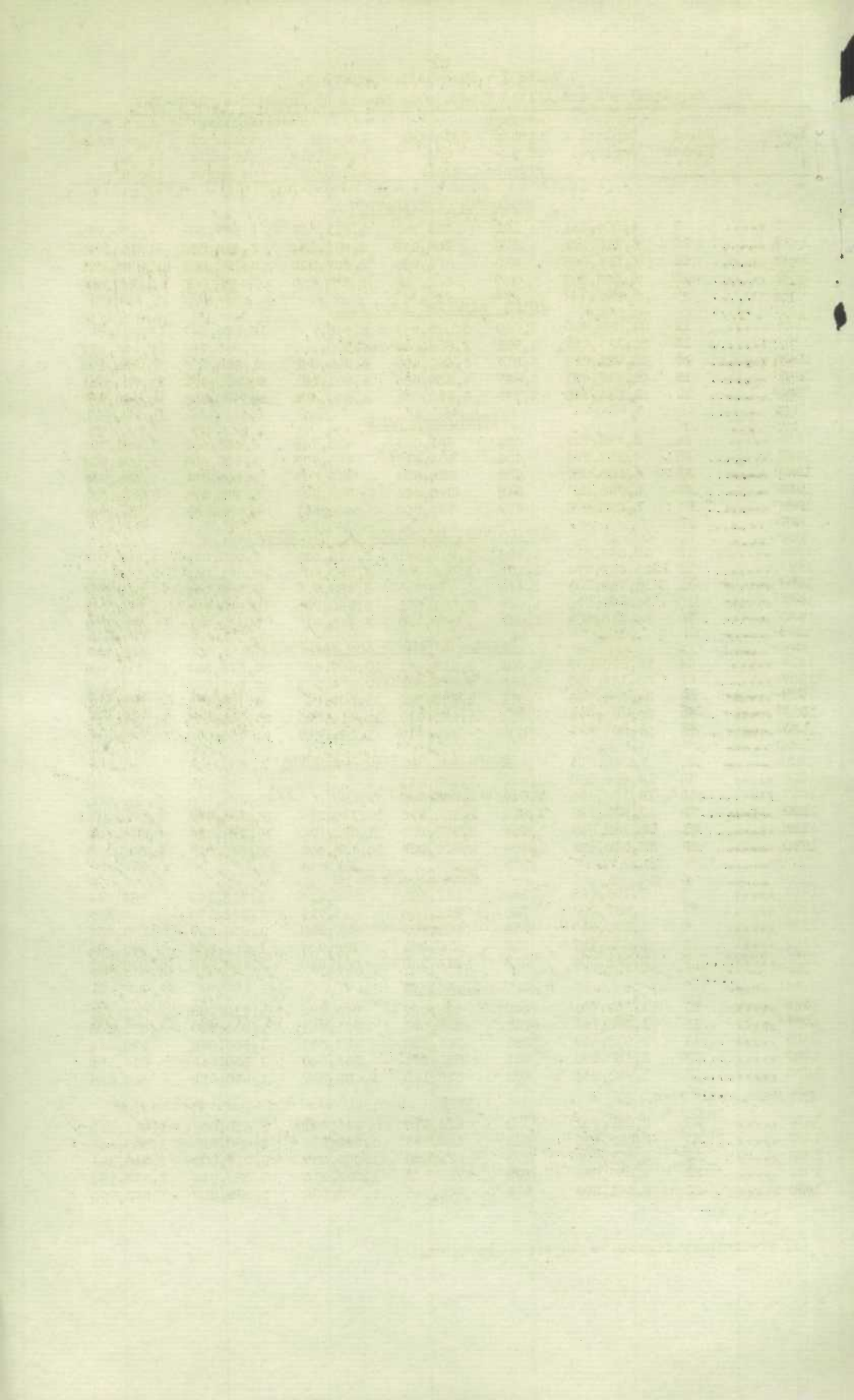


TABLE 1 - PRINCIPAL STATISTICS (cont'd)

(a) Chemicals and Allied Products in Canada, by Industries, 1926 - 1930.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
<u>MEDICINAL AND PHARMACEUTICAL PREPARATIONS</u>							
1926	130	17,194,519	2,365	2,875,677	5,552,699	15,382,475	9,829,776
1927	136	17,542,111	2,578	3,160,802	5,762,019	16,249,191	10,487,172
1928	140	17,427,506	2,667	3,375,024	5,707,934	17,224,351	11,516,417
1929	140	19,552,949	2,849	3,672,373	6,300,894	19,038,894	12,738,000
1930	151	18,187,712	2,702	3,646,819	5,559,273	18,368,176	12,808,203
<u>TOILET PREPARATIONS</u>							
1926	46	2,741,848	569	595,589	1,403,399	4,225,510	2,822,111
1927	48	3,124,209	557	624,922	1,497,699	4,465,353	2,967,654
1928	44	2,927,525	558	627,852	1,494,084	4,618,291	3,124,207
1929	49	3,121,617	577	667,339	1,577,642	4,451,588	2,873,946
1930	48	3,189,849	579	687,186	1,438,447	4,238,429	2,799,982
<u>FERTILIZERS</u>							
1926	12	1,891,054	221	210,427	1,047,641	1,449,589	401,948
1927	12	1,998,811	233	224,564	1,200,030	1,844,032	644,002
1928	12	2,131,905	251	281,109	1,446,800	2,189,986	743,186
1929	12	2,991,783	251	265,650	1,450,253	2,252,780	808,527
1930	14	4,499,162	272	234,401	1,655,894	2,514,305	858,411
<u>POLISHES AND DRESSINGS</u>							
1926	39	1,335,822	236	308,358	662,155	1,406,581	744,426
1927	37	1,401,061	248	299,795	671,423	1,422,111	750,688
1928	33	1,348,394	215	298,733	653,788	1,396,675	742,887
1929	29	1,253,657	216	279,571	630,861	1,356,223	725,362
1930	30	1,416,668	207	267,696	624,776	1,306,656	681,880
<u>FLAVOURING EXTRACTS</u>							
1926	22	1,353,869	263	295,595	978,156	1,722,496	744,340
1927	20	1,558,170	272	318,811	1,107,093	1,821,374	714,281
1928	23	1,603,001	313	346,751	1,122,243	1,874,099	751,856
1929	23	1,644,497	327	435,728	1,013,402	1,810,896	797,494
1930	22	1,554,301	271	352,009	1,004,498	1,711,819	681,885
<u>MISCELLANEOUS CHEMICAL INDUSTRIES</u>							
1926	75	10,820,049	1,978	1,949,060	4,251,226	9,483,271	5,231,345
1927	71	10,996,011	1,953	2,042,700	3,845,752	9,185,666	5,339,932
1928	77	12,407,249	1,920	1,980,121	4,233,002	9,587,883	5,354,829
1929	76	12,322,697	1,742	2,076,466	4,291,458	10,121,408	5,829,950
1930	74	12,127,100	1,627	1,883,812	3,924,937	8,940,015	5,015,678
<u>TOTAL CHEMICALS AND ALLIED PRODUCTS (x)</u>							
1926	556	133,407,891	14,345	18,309,377	46,124,557	108,500,933	62,376,376
1927	561	134,618,839	14,539	18,656,851	47,765,066	111,447,612	63,682,546
1928	572	148,939,920	16,130	20,290,417	50,934,391	123,677,860	72,743,469
1929	557	165,886,912	16,694	22,639,449	55,184,337	138,545,221	83,360,884
1930	590	169,982,605	15,464	21,107,417	49,013,269	122,266,852	73,253,583

(x) Note:- For 1930, the value of products for these industries and for the chemical group as a whole includes only the commodities made for sale. Intermediates made for use in the reporting companies' own plants have been omitted. Figures for previous years have been revised along this line in order that the statistics may be comparative.

(z) Preliminary figures - subject to revision.

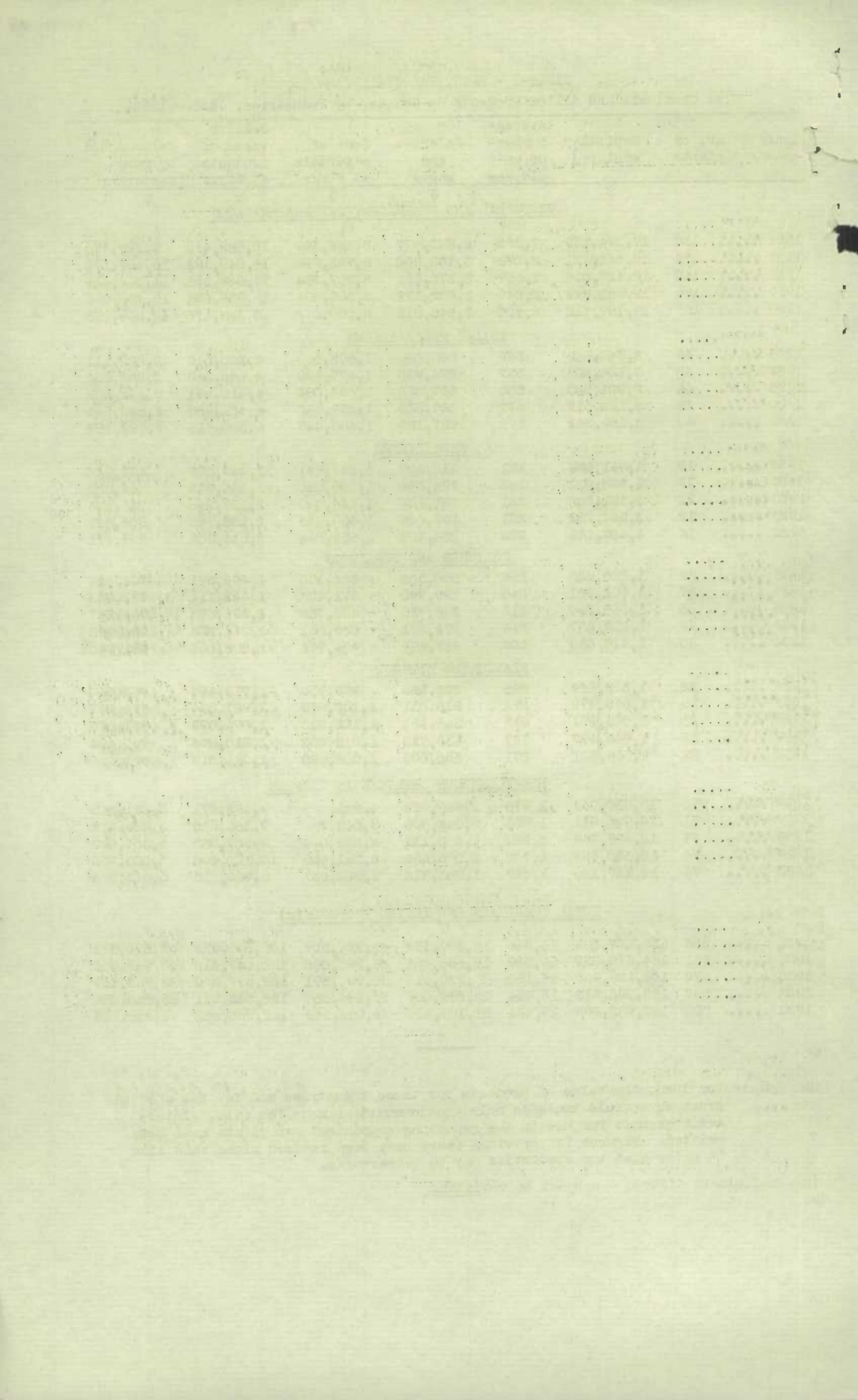




TABLE 1 - PRINCIPAL STATISTICS - concluded  
 (b) Chemicals and Allied Products in Canada, by Provinces, 1926-1930.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
<u>NOVA SCOTIA</u>							
1926	10	2,056,099	209	237,724	714,497	1,812,418	1,097,921
1927	10	2,050,522	216	233,221	826,956	2,086,346	1,259,390
1928	12	2,042,562	227	240,657	1,052,767	2,281,680	1,228,913
1929	11	2,507,484	243	252,276	1,022,891	2,280,099	1,257,208
1930	13	2,345,905	226	205,730	1,065,815	2,296,867	1,231,052
<u>NEW BRUNSWICK</u>							
1926	6	802,849	101	116,102	645,221	995,358	350,137
1927	8	794,194	100	123,237	623,901	953,169	329,268
1928	8	809,692	84	113,858	707,364	1,018,960	311,596
1929	8	690,904	84	118,155	738,872	1,066,357	327,484
1930	7	748,774	75	114,570	616,956	1,009,897	392,941
<u>QUEBEC</u>							
1926	168	46,529,563	5,400	6,453,896	14,517,804	35,450,349	20,932,545
1927	170	47,918,692	5,429	6,446,096	14,644,139	35,823,742	21,179,605
1928	171	53,567,970	5,746	6,616,618	15,252,257	38,179,746	22,927,489
1929	162	59,444,723	5,814	7,211,454	16,040,533	41,868,964	25,828,431
1930	175	61,360,383	5,620	7,125,914	14,306,009	38,083,773	23,777,764
<u>ONTARIO</u>							
1926	297	72,781,119	7,642	10,183,353	25,664,316	61,054,330	35,370,014
1927	299	72,742,913	7,757	10,513,169	27,116,258	63,163,881	36,047,623
1928	303	81,514,536	8,939	11,841,677	28,887,475	71,090,889	42,203,414
1929	295	91,052,592	9,260	13,314,547	32,209,240	81,537,742	49,328,502
1930	312	93,306,872	8,311	12,013,636	28,650,677	71,353,476	42,702,799
<u>MANITOBA</u>							
1926	30	4,996,097	448	594,591	2,299,792	4,441,344	2,141,552
1927	31	4,636,117	485	615,324	2,209,096	4,306,124	2,099,028
1928	30	4,322,782	518	662,029	2,418,010	5,327,362	2,909,352
1929	31	4,968,812	625	817,106	2,395,675	5,387,195	2,991,520
1930	31	4,939,190	536	692,864	1,820,116	3,762,385	1,942,269
<u>SASKATCHEWAN AND ALBERTA</u>							
1926	12	557,030	82	112,741	285,345	522,939	237,694
1927	11	586,430	84	110,824	323,243	579,001	255,758
1928	10	598,569	89	109,507	440,298	678,854	238,556
1929	9	566,407	80	115,378	417,034	743,331	326,297
1930	13	971,896	116	163,225	441,824	840,499	398,675
<u>BRITISH COLUMBIA</u>							
1926	33	5,685,134	463	610,970	1,977,682	4,224,195	2,246,513
1927	32	5,889,971	488	614,980	2,021,473	4,535,349	2,513,876
1928	38	6,083,809	527	706,071	2,176,220	5,100,369	2,924,149
1929	38	6,455,990	588	810,533	2,360,092	5,661,533	3,301,441
1930	39	6,309,585	580	791,478	2,111,872	4,919,955	2,808,083
<u>CANADA</u>							
1926	556	133,407,891	14,345	18,309,377	46,124,557	108,500,933	62,376,376
1927	561	134,618,839	14,559	18,656,851	47,765,066	111,447,612	63,682,546
1928	573	148,939,920	16,130	20,290,417	50,934,391	123,677,860	72,743,469
1929	557	165,886,912	16,694	22,639,449	55,184,337	138,545,221	83,360,884
1930	590	169,982,605	15,464	21,107,417	49,013,269	122,266,852	73,253,583

(z) Preliminary figures - subject to revision.

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