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S. (Hon.), F.R.S.C.

Chemical Branch

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ALLIED PRODUCTS

STATISTICAL DATA, 1933.

Production of plants in Canada manufacturing chemicals and allied products was at a level as in 1932, according to a preliminary report just issued by the Dominion Bureau of Statistics at Ottawa.

The value of output totalled \$92,087,231 during 1933 as against \$95,279,376 in 1932 but this latter figure included the value of production of flavouring extracts which has since been transferred to the food products group. Though the total value of output does not show any improvement, signs were not lacking which would indicate that the chemical industries were again on an upward trend. Monthly records of production are not available but monthly indices of employment are recorded and the index for chemicals and allied products advanced steadily since the beginning of 1933. In January of that year it stood at 101.8, by June it had risen to 111.1 and in December to 114.3.

Of the 14 groups into which the chemical industry has been divided, 5 showed higher values than in 1932. The acids, alkalies and salts, or the heavy chemical industry, reported output at \$12,681,868 or 11.4 per cent higher than in the previous year. The main products were caustic soda, soda ash, cyanamide, liquid chlorine, sulphuric acid, hydrochloric acid, nitric acid, sodium cyanide, sodium silicate, sodium chlorate, phosphorous, phosphoric acid, acid calcium phosphate, acetic acid, acetylene black, butyl acetate, ethyl acetate, pentasol acetate paraldehyde and calcium carbide. During the year one company began the production of sodium chlorate and acid calcium phosphate, while three others started to make sodium silicate. Large quantities of these chemicals have been imported in past years.

Due to increased demand from the mining industry, production of explosives increased 3 per cent over 1932. Output by fertilizer manufacturers advanced 6 per cent to \$4,231,598. More ammonium sulphate and ammonium phosphate were made and the tonnage of mixed fertilizers was higher at about 110,000 tons compared with 96,000 tons in 1932. Ammonium sulphate production was about 81,000 tons or 13,000 tons more than in 1932 but exports increased to 62,383 tons from 38,741 tons and imports declined to 4,156 tons from 13,811 tons. A slight increase to \$669,119 from \$607,394 in 1932 was noted in the wood distillation industry.

Lower outputs were recorded for 9 industries. Medicinals and pharmaceuticals declined 5 per cent to \$16,730,530; paints and varnishes, 1.5 per cent to \$14,695,335; soaps and cleaning preparations, 3.2 per cent to \$14,268,394; compressed gases, loss than 1 per cent to \$2,490,215; toilet preparations, 5.6 per cent to \$5,614,505; coal tar distillation, 21 per cent to \$1,671,397; inks, 2.3 per cent to \$2,094,570; adhesives, 1 per cent to \$1,076,148, and the miscellaneous group, 29 per cent to \$6,612,752.

In 1933 the value of imports of chemicals and allied products was \$24,068,278, a drop of about 14 per cent from 1932. While total imports were lower the percentage brought from the United Kingdom increased to 22 per cent in 1933 compared with 16.9 per cent in 1932 and an average of 13 per cent in the preceding five-year period. Purchases from the United States fell off correspondingly, the percentage being 56.9 in 1933 as against 62.0 in 1932 and an average of 67 per cent in the previous five years. Exports of chemicals from Canada were valued at \$12,604,040 in 1933 compared with \$11,033,179 in the previous year. The chief gains were for acids, ammonium sulphate and sodium compounds. About 45 per cent of the total exports was shipped to the United States, 23 per cent to the United Kingdom and 32 per cent to other countries.

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TABLE 1 - PRELIMINARY STATISTICS

(a) Chemicals and Allied Products in Canada, by Industries, 1929-1933.

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>							
1929	10	4,982,333	242	353,970	2,658,555	3,818,050	1,159,495
1930	10	5,042,373	221	325,116	2,354,551	3,334,066	979,515
1931	10	5,013,678	193	293,043	1,850,751	2,576,102	725,351
1932	10	5,168,775	181	247,133	1,382,425	2,114,650	732,225
1933	10	5,031,891	184	272,439	1,076,276	1,671,897	595,421
<u>ACIDS, ALKALIES AND SALTS</u>							
1929	15	49,417,431	2,897	4,338,686	6,301,121	28,021,972	21,720,851
1930	17	52,314,567	2,409	3,502,834	4,712,471	20,111,602	15,399,131
1931	14	44,994,828	1,694	2,426,880	2,407,682	10,952,497	8,544,615
1932	14	44,067,194	1,679	2,211,467	2,283,076	11,357,649	9,074,573
1933	15	44,714,267	1,892	2,236,438	2,482,077	12,681,866	10,199,789
<u>COMPRESSED GASES</u>							
1929	28	4,995,560	542	770,424	785,377	3,967,416	3,182,039
1930	30	5,020,875	472	737,240	504,975	3,557,486	3,052,511
1931	30	4,597,170	420	654,364	429,048	2,818,306	2,389,258
1932	31	4,326,599	422	617,901	380,795	2,504,550	2,123,755
1933	31	4,023,274	426	605,396	371,203	2,490,215	2,119,012
<u>PAINTS, PIGMENTS AND VARNISHES</u>							
1929	69	26,471,976	2,851	4,260,019	12,414,829	27,103,465	14,688,636
1930	78	26,212,828	2,835	4,307,998	11,094,435	23,966,502	12,872,067
1931	75	24,985,476	2,780	4,281,861	7,974,852	18,536,463	10,561,611
1932	71	23,978,252	2,658	3,858,813	6,295,860	14,912,383	8,616,523
1933	73	22,636,733	2,380	3,413,675	5,987,109	14,695,335	8,708,226
<u>SOAPS, WASHING COMPOUNDS AND CLEANING PREPARATIONS</u>							
1929	61	18,152,849	1,854	2,578,507	11,002,034	19,218,726	8,216,692
1930	68	18,340,715	1,648	2,400,116	9,996,739	18,167,838	8,171,099
1931	69	15,322,398	1,699	2,487,237	7,990,246	17,047,452	9,057,206
1932	85	13,801,620	1,777	2,426,190	6,478,638	14,739,158	8,260,520
1933	82	13,144,164	1,751	2,305,192	6,510,167	14,268,394	7,758,227
<u>MEDICINAL AND PHARMACEUTICAL PREPARATIONS</u>							
1929	140	19,552,949	2,849	3,672,373	6,300,894	19,038,894	12,738,000
1930	144	18,843,192	2,833	3,663,307	5,563,081	17,768,806	12,205,725
1931	144	17,848,713	2,866	3,858,591	5,590,546	18,110,794	12,520,248
1932	151	18,379,601	2,959	3,833,778	5,595,117	17,573,979	11,978,862
1933	154	17,448,755	3,045	3,712,263	5,685,586	16,739,530	11,053,944
<u>TOILET PREPARATIONS</u>							
1929	49	3,121,617	577	667,339	1,577,642	4,451,588	2,873,946
1930	48	3,345,387	629	732,251	1,346,445	4,206,513	2,860,068
1931	56	4,564,109	805	870,584	1,987,231	5,946,292	3,959,061
1932	71	5,492,507	875	958,233	1,876,280	5,946,409	4,070,129
1933	85	4,801,675	931	967,783	1,798,909	5,614,505	3,815,596
<u>FERTILIZERS</u>							
1929	12	2,991,783	251	265,650	1,450,253	2,258,780	808,527
1930	14	4,139,498	261	262,928	1,647,478	2,504,573	857,095
1931	18	15,615,119	636	848,256	3,053,016	4,251,840	1,198,824
1932	19	17,083,478	748	1,097,812	2,616,333	4,006,187	1,389,854
1933	19	16,860,687	657	767,282	2,819,586	4,231,598	1,412,012
<u>WOOD DISTILLATION</u>							
1929	6	2,028,757	242	252,281	736,954	1,680,332	943,378
1930	7	2,263,181	167	160,928	504,323	1,195,986	691,663
1931	5	1,644,073	123	119,132	379,147	700,937	321,790
1932	5	1,572,391	98	98,839	320,457	607,394	286,937
1933	6	2,036,569	139	113,431	360,396	669,119	308,723

Note - Figures for 1933 are preliminary and are therefore subject to revision.

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TABLE 1 - PRINCIPAL STATISTICS - continued

(a) Chemicals and Allied Products in Canada, by Industries, 1929-1933 (continued)

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>INKS</u>							
1929	22	2,597,263	392	785,778	1,097,315	3,038,049	1,940,734
1930	22	2,457,836	373	748,704	995,253	2,559,316	1,564,063
1931	23	2,319,662	370	709,575	762,112	2,309,062	1,546,950
1932	24	2,495,373	373	671,625	737,023	2,153,632	1,416,609
1933	27	2,417,381	390	842,102	755,030	2,094,570	1,341,540
<u>ADHESIVES</u>							
1929	13	1,850,273	267	321,200	962,940	1,830,644	867,704
1930	12	1,921,406	226	266,825	572,908	1,650,634	767,726
1931	13	2,850,507	297	375,598	277,802	1,742,553	864,751
1932	14	2,501,171	229	263,142	457,146	1,087,215	630,069
1933	16	2,196,071	270	295,705	441,198	1,076,148	634,950
<u>POLISHES AND DRESSINGS</u>							
1929	29	1,253,657	216	279,571	630,261	1,356,223	725,362
1930	32	1,414,276	202	269,187	627,642	1,346,899	719,257
1931	42	1,966,126	290	433,333	665,302	1,783,549	1,118,247
1932	44	2,032,642	285	400,847	681,274	1,812,603	1,131,329
1933	47	2,042,627	347	595,223	730,171	1,862,770	1,132,599
<u>EXPLOSIVES, AMMUNITION AND FIREWORKS</u>							
1929	10	14,493,270	1,445	1,531,361	3,960,702	10,828,778	6,868,076
1930	10	14,440,452	1,422	1,562,420	3,445,630	9,731,945	6,286,315
1931	9	9,868,935	1,228	1,327,804	2,326,856	8,540,927	5,714,071
1932	8	7,016,875	1,168	1,262,732	2,332,215	7,184,574	4,852,359
1933	8	6,583,517	1,168	1,260,662	2,362,404	7,378,732	5,016,328
<u>MISCELLANEOUS CHEMICAL INDUSTRIES</u>							
1929	93	13,977,194	2,069	2,512,192	5,304,660	11,942,304	6,627,444
1930	99	12,362,563	1,802	2,031,935	4,489,107	9,867,471	5,378,364
1931	113	12,272,273	1,806	2,178,890	3,961,959	10,185,131	6,223,172
1932	115	13,013,476	1,843	2,059,596	3,239,892	9,278,993	5,439,101
1933	97	11,565,421	1,400	1,435,563	2,550,700	6,612,752	4,062,052
<u>TOTAL CHEMICALS AND ALLIED PRODUCTS</u>							
1929	557	165,886,912	16,694	22,639,449	55,184,337	138,545,221	83,360,884
1930	591	168,119,152	15,503	21,041,789	48,165,038	119,969,637	71,804,599
1931	621	163,863,072	15,207	20,867,948	40,756,550	105,501,905	64,745,355
1932	662	160,929,954	15,295	20,068,108	35,276,531	95,279,376	60,002,845
1933	670	155,503,032	14,980	18,473,865	33,923,812	92,087,231	58,158,419

(b) Chemicals and Allied Products in Canada, by Provinces, 1929-1933.

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 AND PRINCE EDWARD ISLAND</u>							
1929	11	2,507,484	243	252,276	1,022,891	2,280,099	1,257,208
1930	10	2,357,832	227	255,422	1,054,672	2,138,275	1,083,603
1931	12	2,564,682	255	230,723	1,042,710	1,987,142	944,432
1932	10	2,500,500	191	189,410	537,105	1,243,240	706,135
1933	11	2,205,544	195	190,135	580,148	1,284,432	704,284
<u>NEW BRUNSWICK</u>							
1929	8	890,904	81	118,155	738,872	1,066,357	327,484
1930	6	738,047	69	107,700	590,212	974,669	384,457
1931	10	1,145,164	121	166,434	943,915	1,607,304	663,389
1932	9	1,321,166	156	176,015	824,028	1,408,791	584,763
1933	8	1,251,897	165	179,570	740,788	1,291,974	551,186

Note - Figures for 1933 are preliminary and are therefore subject to revision.

TABLE 1 - PRINCIPAL STATISTICS - concluded.

(b) Chemicals and Allied Products in Canada, by Provinces, 1929-1933. concluded.

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>QUEBEC</u>							
1929	162	59,444,723	5,814	7,211,454	16,040,533	41,868,964	25,828,431
1930	170	59,129,120	5,521	7,069,948	14,387,650	37,143,494	22,755,844
1931	176	57,462,447	5,396	6,847,290	11,608,910	31,329,642	19,720,732
1932	196	55,994,760	5,344	6,523,491	9,847,460	27,869,944	18,022,484
1933	191	55,272,477	5,440	6,426,449	9,912,279	28,375,804	18,463,525
<u>ONTARIO</u>							
1929	295	91,052,592	9,260	13,314,547	32,209,240	81,537,742	49,328,502
1930	319	93,398,822	8,403	11,898,131	27,823,839	70,212,507	42,388,668
1931	336	82,252,951	7,955	11,524,251	23,326,799	62,129,632	38,802,833
1932	360	80,440,487	8,053	10,977,658	20,295,830	56,588,987	36,293,157
1933	378	74,282,798	7,764	9,932,525	19,135,931	52,458,208	33,322,277
<u>MANITOBA</u>							
1929	31	4,968,812	625	817,106	2,395,675	5,387,195	2,991,520
1930	33	5,071,012	581	729,909	1,936,600	4,011,464	2,074,864
1931	35	4,546,589	581	726,608	1,451,165	3,256,757	1,805,592
1932	34	4,107,747	565	666,353	1,471,676	3,263,029	1,791,353
1933	33	4,272,386	553	610,933	1,439,101	3,250,889	1,811,788
<u>SASKATCHEWAN</u>							
1929(x)	9	566,407	80	115,378	417,034	743,331	326,297
1930	5	535,441	53	80,543	173,799	325,358	151,559
1931	7	291,064	43	67,742	97,837	226,540	128,703
1932	6	248,586	45	63,871	103,155	291,133	187,978
1933	6	704,270	49	69,751	95,390	225,850	130,460
<u>ALBERTA</u>							
1930	10	459,756	74	97,774	231,241	549,651	318,410
1931	8	489,519	62	80,641	181,606	466,384	284,778
1932	9	466,675	66	77,347	165,392	428,372	262,980
1933	9	482,239	70	78,352	162,114	445,605	283,491
<u>BRITISH COLUMBIA</u>							
1929	38	6,455,990	588	810,533	2,360,092	5,661,533	3,301,441
1930	38	6,429,122	575	802,362	1,967,025	4,614,219	2,647,194
1931	37	15,110,656	811	1,194,259	2,103,608	4,498,504	2,394,896
1932	38	15,850,033	875	1,333,963	2,031,885	4,185,880	2,153,995
1933	34	17,031,421	744	986,170	1,863,061	4,754,469	2,891,408
<u>C A N A D A</u>							
1929	557	165,886,912	16,694	22,639,449	55,184,337	138,545,221	83,360,884
1930	591	168,119,152	15,503	21,041,789	48,165,038	119,969,637	71,804,599
1931	621	163,863,072	15,207	20,867,948	40,756,550	105,501,905	64,745,355
1932	662	160,929,954	15,295	20,008,108	35,276,531	95,279,376	60,002,845
1933	670	155,503,032	14,980	18,473,885	33,928,812	92,087,231	58,158,419

(x) Includes data for Alberta in 1929.

Note - Figures for 1933 are preliminary and are therefore subject to revision.

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