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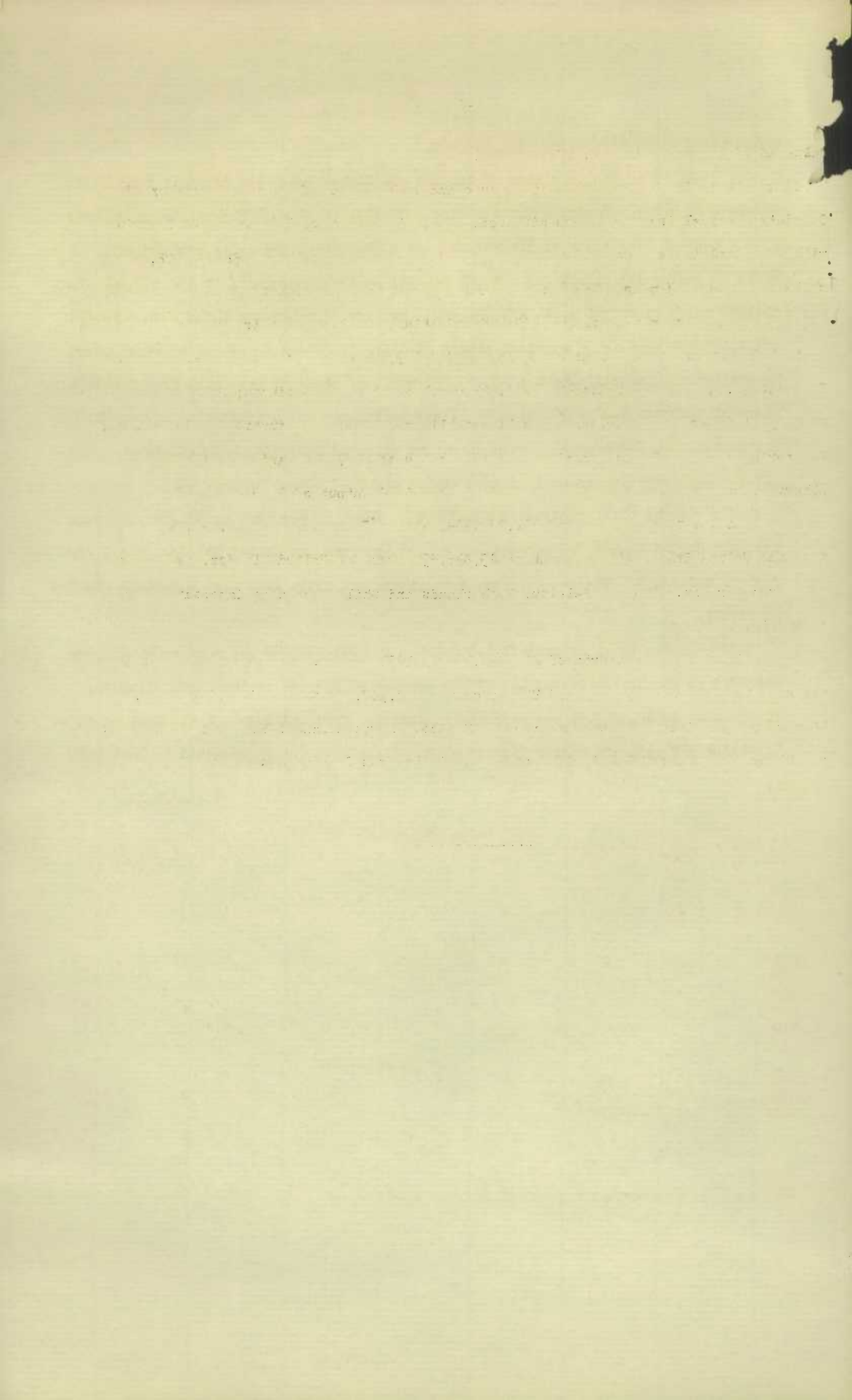
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value added by manufacturing, \$71,804,599.

It is in the provinces of Ontario and Quebec where the greatest number of Canada's chemical industries are situated. In 1931 there were 313 plants in Ontario with a capital investment of \$80,543,713 and a production totalling \$58,843,402, while in Quebec 173 plants had a total capital employed amounting to \$57,386,814 and a gross value of output worth \$31,257,587. British Columbia was third with a total capital investment in 38 chemical plants of \$15,113,122 and an output of \$4,279,669. In Manitoba, 33 plants produced \$3,060,051 worth of chemical products; Nova Scotia's chemical industry was represented by 11 establishments and a production of \$2,021,561; 8 reported from New Brunswick with an output value of \$977,738; and Saskatchewan and Alberta were represented by 16 plants with a combined output of \$697,491.

Of the total imports of \$31,336,994, about 67 per cent or \$21,149,849 were from the United States, 13 per cent or \$3,896,530 from the United Kingdom, and 8 per cent from Germany. France, Belgium, Netherlands and Chile were also important sources of supply.

Of the total exports of \$10,848,946 in 1931 over 42 per cent or \$4,546,634 was sold to the United States and 27 per cent or \$2,907,638 to the United Kingdom, 10 per cent or \$1,106,255 was exported to Mexico. Newfoundland took chemical products totalling \$286,151 and Cuba's imports of chemicals from Canada amounted to \$201,312.



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TABLE 1 - PRELIMINARY STATISTICS.

(a) Chemicals and Allied Products in Canada, by Industries, 1927-1931.

| Years | Number 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 manu- facturing \$ |
|--|------------------|------------------------|-----------------------------|--------------------------|----------------------------------|--|---|
| <u>COAL TAR DISTILLATION</u> | | | | | | | |
| 1927 | 10 | 4,115,151 | 179 | 253,178 | 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 | 353,970 | 2,653,555 | 3,813,050 | 1,159,495 |
| 1930 | 10 | 5,042,373 | 221 | 325,116 | 2,354,552 | 3,334,066 | 979,515 |
| 1931 | 10 | 5,043,677 | 193 | 293,042 | 1,850,350 | 2,576,102 | 725,752 |
| <u>ACIDS, ALKALIES AND SALTS</u> | | | | | | | |
| 1927 | 17 | 31,134,457 | 1,881 | 2,858,544 | 4,090,509 | 17,086,788 | 12,996,279 |
| 1928 | 16 | 40,024,624 | 2,517 | 3,490,409 | 4,998,083 | 21,256,286 | 16,258,198 |
| 1929 | 15 | 49,417,431 | 2,897 | 4,333,686 | 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 | 1,232 | 2,428,830 | 2,393,132 | 10,767,219 | 8,374,087 |
| <u>COMPRESSED GASES</u> | | | | | | | |
| 1927 | 25 | 4,177,794 | 404 | 504,417 | 550,795 | 2,625,698 | 2,074,903 |
| 1928 | 25 | 4,226,037 | 426 | 652,893 | 479,587 | 3,145,884 | 2,666,297 |
| 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 | 29 | 4,498,101 | 415 | 646,089 | 421,048 | 2,752,558 | 2,331,510 |
| <u>PAINTS, PIGMENTS AND VARNISHES</u> | | | | | | | |
| 1927 | 62 | 23,162,090 | 2,563 | 3,552,586 | 10,474,908 | 22,606,063 | 12,131,155 |
| 1928 | 68 | 24,256,008 | 2,381 | 3,967,295 | 11,387,295 | 24,703,733 | 13,316,438 |
| 1929 | 69 | 26,471,976 | 2,851 | 4,260,019 | 12,414,329 | 27,103,465 | 14,683,636 |
| 1930 | 78 | 26,212,828 | 2,835 | 4,307,998 | 11,094,435 | 23,966,502 | 12,872,067 |
| 1931 | 77 | 25,326,583 | 2,774 | 4,162,550 | 8,573,649 | 19,182,327 | 10,608,678 |
| <u>SOAPS AND WASHING COMPOUNDS</u> | | | | | | | |
| 1927 | 62 | 16,128,456 | 1,549 | 2,036,783 | 9,800,020 | 15,528,100 | 5,638,080 |
| 1928 | 71 | 17,995,933 | 1,884 | 2,160,696 | 10,190,307 | 16,998,726 | 6,808,419 |
| 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 | 64 | 15,244,274 | 1,678 | 2,467,750 | 7,992,680 | 16,822,000 | 8,829,320 |
| <u>MEDICINAL AND PHARMACEUTICAL PREPARATIONS</u> | | | | | | | |
| 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 | 144 | 18,843,192 | 2,833 | 3,663,307 | 5,563,081 | 17,768,806 | 12,205,725 |
| 1931 | 140 | 16,691,211 | 2,694 | 3,667,747 | 4,572,216 | 15,206,176 | 10,633,960 |
| <u>TOILET PREPARATIONS</u> | | | | | | | |
| 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 | 3,345,387 | 629 | 732,251 | 1,346,445 | 4,206,513 | 2,860,068 |
| 1931 | 50 | 4,103,906 | 752 | 811,070 | 1,732,854 | 5,172,039 | 3,439,185 |
| <u>FERTILIZERS</u> | | | | | | | |
| 1927 | 12 | 1,998,811 | 233 | 224,564 | 1,200,030 | 1,344,032 | 644,002 |
| 1928 | 12 | 2,131,905 | 251 | 281,109 | 1,346,800 | 2,189,936 | 743,186 |
| 1929 | 12 | 2,991,783 | 251 | 265,650 | 1,450,253 | 2,258,730 | 808,527 |
| 1930 | 14 | 4,139,498 | 261 | 262,928 | 1,647,478 | 2,504,573 | 857,095 |
| 1931 | 18 | 15,365,829 | 602 | 812,147 | 2,806,256 | 4,147,315 | 1,341,059 |

Note:- Figures for 1931 are preliminary and therefore subject to revision.

TABLE 1 - PRINCIPAL STATISTICS (continued)

(a) Chemicals and Allied Products in Canada, by Industries, 1927-1931.

| Years | Number 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>WOOD DISTILLATION</u> | | | | | | | |
| 1927 | 10 | 1,829,004 | 238 | 271,038 | 853,717 | 1,571,176 | 707,459 |
| 1928 | 6 | 1,870,040 | 214 | 241,353 | 824,322 | 1,630,609 | 806,287 |
| 1929 | 6 | 2,028,757 | 242 | 252,231 | 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 | 379,247 | 700,937 | 321,790 |
| <u>INKS</u> | | | | | | | |
| 1927 | 24 | 2,315,483 | 401 | 683,777 | 1,082,983 | 2,830,225 | 1,747,242 |
| 1928 | 22 | 2,451,858 | 373 | 721,453 | 1,069,837 | 2,917,603 | 1,848,366 |
| 1929 | 22 | 2,597,263 | 392 | 735,778 | 1,097,315 | 3,038,049 | 1,940,734 |
| 1930 | 22 | 2,457,836 | 376 | 748,704 | 995,253 | 2,559,316 | 1,564,063 |
| 1931 | 22 | 2,296,883 | 366 | 705,500 | 758,256 | 2,300,143 | 1,541,847 |
| <u>ADHESIVES</u> | | | | | | | |
| 1927 | 14 | 1,593,196 | 261 | 357,034 | 921,301 | 1,934,240 | 1,013,108 |
| 1928 | 14 | 1,805,699 | 283 | 345,152 | 924,301 | 1,956,865 | 972,564 |
| 1929 | 13 | 1,850,273 | 267 | 321,296 | 962,940 | 1,830,644 | 867,704 |
| 1930 | 12 | 1,921,406 | 226 | 286,825 | 882,908 | 1,650,634 | 767,726 |
| 1931 | 11 | 2,156,836 | 200 | 247,765 | 757,807 | 1,498,774 | 740,967 |
| <u>POLISHES AND DRESSINGS</u> | | | | | | | |
| 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 | 32 | 1,414,276 | 202 | 269,187 | 627,642 | 1,346,899 | 719,257 |
| 1931 | 34 | 1,804,922 | 264 | 376,724 | 581,356 | 1,475,058 | 893,702 |
| <u>FLAVOURING EXTRACTS</u> | | | | | | | |
| 1927 | 20 | 1,558,170 | 272 | 313,811 | 1,107,093 | 1,821,374 | 714,281 |
| 1928 | 23 | 1,603,001 | 313 | 346,751 | 1,122,243 | 1,874,099 | 751,256 |
| 1929 | 23 | 1,644,497 | 327 | 435,728 | 1,013,402 | 1,810,896 | 797,494 |
| 1930 | 24 | 1,537,091 | 255 | 310,369 | 893,214 | 1,544,092 | 650,278 |
| 1931 | 24 | 1,416,838 | 239 | 362,398 | 867,527 | 1,609,501 | 741,974 |
| <u>MISCELLANEOUS CHEMICAL INDUSTRIES</u> | | | | | | | |
| 1927 | 84 | 24,478,846 | 3,145 | 3,406,450 | 7,366,435 | 17,246,729 | 10,480,294 |
| 1928 | 88 | 26,174,752 | 3,338 | 3,456,747 | 7,912,833 | 19,573,929 | 11,655,096 |
| 1929 | 80 | 26,325,967 | 3,187 | 3,657,827 | 8,252,160 | 20,950,186 | 12,698,026 |
| 1930 | 85 | 25,215,927 | 2,969 | 3,333,936 | 7,041,523 | 18,055,324 | 11,013,801 |
| 1931 | 94 | 20,475,604 | 2,735 | 3,114,782 | 5,989,292 | 16,927,350 | 10,938,052 |
| <u>TOTAL CHEMICALS AND ALLIED PRODUCTS</u> | | | | | | | |
| 1927 | 561 | 134,618,839 | 14,559 | 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 | 132,545,221 | 83,360,884 |
| 1930 | 591 | 168,119,152 | 15,503 | 21,041,789 | 48,165,038 | 119,969,637 | 71,804,539 |
| 1931 | 592 | 161,063,565 | 14,317 | 20,223,662 | 39,675,610 | 101,137,499 | 61,461,889 |

Note: - Figures for 1931 are preliminary and therefore subject to revision.

TABLE 1 - PRINCIPAL STATISTICS (continued)
(b) Chemicals and Allied Products in Canada, by Provinces, 1927-1931.

| Years | Number 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> | | | | | | | |
| 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 | 10 | 2,357,832 | 227 | 255,422 | 1,054,672 | 2,138,275 | 1,083,503 |
| 1931 | 11 | 2,401,141 | 230 | 259,746 | 1,091,103 | 2,021,561 | 930,458 |
| <u>NEW BRUNSWICK</u> | | | | | | | |
| 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 | 890,904 | 84 | 118,155 | 738,872 | 1,066,357 | 327,484 |
| 1930 | 6 | 738,047 | 69 | 107,700 | 590,212 | 974,669 | 384,457 |
| 1931 | 8 | 697,779 | 88 | 127,934 | 497,884 | 977,738 | 479,854 |
| <u>QUEBEC</u> | | | | | | | |
| 1927 | 170 | 47,918,692 | 5,429 | 6,446,096 | 14,644,139 | 35,823,742 | 21,179,603 |
| 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 | 170 | 59,129,120 | 5,521 | 7,069,948 | 14,387,650 | 37,143,494 | 22,755,844 |
| 1931 | 173 | 57,386,814 | 4,959 | 6,798,185 | 11,658,926 | 31,257,587 | 19,598,661 |
| <u>ONTARIO</u> | | | | | | | |
| 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 | 319 | 93,398,822 | 8,403 | 11,898,131 | 27,823,839 | 70,212,507 | 42,388,668 |
| 1931 | 313 | 80,543,713 | 7,546 | 10,966,592 | 22,577,798 | 58,843,402 | 36,265,604 |
| <u>MANITOBA</u> | | | | | | | |
| 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 | 33 | 5,071,012 | 581 | 729,909 | 1,936,600 | 4,011,464 | 2,074,864 |
| 1931 | 33 | 3,960,322 | 570 | 717,913 | 1,426,563 | 3,060,051 | 1,633,488 |
| <u>SASKATCHEWAN AND ALBERTA</u> | | | | | | | |
| 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 | 15 | 995,197 | 127 | 178,317 | 405,040 | 875,009 | 469,969 |
| 1931 | 16 | 960,774 | 112 | 157,004 | 281,438 | 697,491 | 416,053 |
| <u>BRITISH COLUMBIA</u> | | | | | | | |
| 1927 | 32 | 5,889,971 | 488 | 614,980 | 2,021,473 | 4,535,349 | 2,513,876 |
| 1928 | 38 | 8,083,809 | 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 | 38 | 6,429,122 | 575 | 802,362 | 1,967,025 | 4,614,219 | 2,647,194 |
| 1931 | 38 | 15,113,122 | 812 | 1,196,288 | 2,141,898 | 4,279,669 | 2,137,771 |
| <u>C A N A D A</u> | | | | | | | |
| 1927 | 561 | 134,618,839 | 14,559 | 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 | 591 | 168,119,152 | 15,503 | 21,041,789 | 48,165,038 | 119,969,637 | 71,804,599 |
| 1931 | 592 | 161,063,565 | 14,317 | 20,223,662 | 39,675,610 | 101,137,499 | 61,461,889 |

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