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Annual Industry Bulletin

Chemicals and Allied Products Group

THE COAL TAR DISTILLATION INDUSTRY, 1946

The coal tar distillation industry in Canada had an output in 1946 valued at \$5,509,727 compared with \$5,616,313 in 1945, a decrease of 1.9 per cent. Eleven tar distilleries were in operation, 5 of these being located in Ontario, 2 in Quebec, 2 in Manitoba, 1 in British Columbia and 1 in Nova Scotia. Their chief products were creosote and other tar oils, pitch, refined tar, tarred felts and sheathings, pitch coke, protective paints, phenol, cresols and cresylic acid.

The average number of workers employed in the industry in 1946 was 410 and salaries and wages paid during the year amounted to \$740,619.

Materials used for manufacturing in 1946 cost \$3,116,167, including 34,889,946 gallons of crude tar valued at \$2,493,538. In addition, \$341,482 were spent for fuel and electricity for heating and power purposes.

Table 1 - PRINCIPAL STATISTICS OF THE COAL TAR DISTILLATION INDUSTRY IN CANADA, 1939 - 1946

| Year       | Number of distilleries | 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 |
|------------|------------------------|-----------------------------|--------------------|---------------------------------------|----------------------------|--|
| 1939 ..... | 10                     | 302                         | 393,522            | 163,950                               | 2,108,544                  | 3,648,080                                |
| 1940 ..... | 10                     | 323                         | 459,374            | 237,242                               | 2,480,378                  | 4,975,087                                |
| 1941 ..... | 10                     | 367                         | 620,129            | 276,628                               | 3,218,530                  | 5,146,443                                |
| 1942 ..... | 10                     | 392                         | 708,857            | 254,419                               | 3,833,826                  | 6,805,791                                |
| 1943 ..... | 10                     | 424                         | 789,335            | 326,448                               | 4,059,598                  | 6,540,285                                |
| 1944 ..... | 10                     | 378                         | 732,528            | 336,971                               | 3,324,047                  | 5,697,144                                |
| 1945 ..... | 10                     | 381                         | 727,102            | 341,929                               | 3,356,468                  | 5,616,313                                |
| 1946 ..... | 11                     | 410                         | 740,619            | 341,482                               | 3,116,167                  | 5,509,727                                |

NOTE: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

(5 Jan. 48)

Coal Tar Distillation

Table 2 - EMPLOYEES, SALARIES AND WAGES, 1939-1946

| Year       | Number of Employees |        |          |        | TOTAL | Salaries<br>\$ | Wages<br>\$ | TOTAL<br>SALARIES<br>and WAGES<br>\$ |
|------------|---------------------|--------|----------|--------|-------|----------------|-------------|--------------------------------------|
|            | On Salaries         |        | On Wages |        |       |                |             |                                      |
|            | Male                | Female | Male     | Female |       |                |             |                                      |
| 1939 ..... | 34                  | 8      | 260      | ...    | 302   | 112,106        | 281,416     | 393,522                              |
| 1940 ..... | 34                  | 9      | 280      | ...    | 323   | 119,714        | 339,660     | 459,374                              |
| 1941 ..... | 65                  | 16     | 286      | ...    | 367   | 235,152        | 386,977     | 620,129                              |
| 1942 ..... | 74                  | 21     | 297      | ...    | 392   | 258,818        | 450,039     | 708,857                              |
| 1943 ..... | 77                  | 23     | 314      | 10     | 424   | 254,427        | 534,908     | 789,335                              |
| 1944 ..... | 68                  | 18     | 273      | 19     | 378   | 230,366        | 502,162     | 732,528                              |
| 1945 ..... | 72                  | 15     | 279      | 15     | 381   | 226,362        | 500,740     | 727,102                              |
| 1946 ..... | 64                  | 22     | 315      | 9      | 410   | 207,022        | 533,597     | 740,619                              |

Table 3 - NUMBER OF WAGE-EARNERS, BY MONTHS, 1945 and 1946 (Number on payroll on the last work day of each month)

| Month           | 1 9 4 5 |        |       | 1 9 4 6 |        |       |
|-----------------|---------|--------|-------|---------|--------|-------|
|                 | Male    | Female | Total | Male    | Female | Total |
| January .....   | 274     | 14     | 288   | 310     | 10     | 320   |
| February .....  | 266     | 13     | 279   | 319     | 10     | 329   |
| March .....     | 283     | 15     | 298   | 338     | 11     | 349   |
| April .....     | 270     | 19     | 289   | 341     | 9      | 350   |
| May .....       | 268     | 18     | 286   | 324     | 9      | 333   |
| June .....      | 268     | 16     | 284   | 311     | 9      | 320   |
| July .....      | 267     | 15     | 282   | 321     | 9      | 330   |
| August .....    | 273     | 14     | 287   | 314     | 8      | 322   |
| September ..... | 283     | 14     | 297   | 288     | 7      | 295   |
| October .....   | 303     | 13     | 316   | 308     | 7      | 315   |
| November .....  | 303     | 6      | 309   | 301     | 5      | 306   |
| December .....  | 287     | 6      | 293   | 301     | 5      | 306   |
| AVERAGE .....   | 279     | 15     | 294   | 315     | 9      | 324   |

Table 4 - FUEL AND ELECTRICITY USED, 1945 and 1946

| Kind  | Unit of measure | 1 9 4 5   |               | 1 9 4 6   |               |
|---|-----------------|-----------|---------------|-----------|---------------|
|   |                 | Quantity  | Cost at works | Quantity  | Cost at works |
| Anthracite coal .....                             | ton             | 1,525     | 12,239        | 3,064     | 25,041        |
| Bituminous coal - Canadian.<br>Imported.          | ton             | 7,119     | 55,524        | 6,240     | 50,505        |
| Lignite coal .....                                | ton             | 166       | 746           | 202       | 951           |
| Coke .....  | ton             | 52        | 568           | 94        | 833           |
| Gasoline .....                                    | Imp. gal.       | 7,080     | 2,705         | 13,039    | 4,452         |
| Fuel oil .....                                    | Imp. gal.       | 467,694   | 33,785        | 1,179,015 | 86,934        |
| Kerosene or coal oil .....                        | Imp. gal.       | 2,039     | 543           | 34,813    | 3,056         |
| Wood .....  | cord            | 484       | 1,688         | 634       | 2,891         |
| Gas - Manufactured .....                          | M cu.ft.        | ...       | ...           | 27,710    | 22,201        |
| Other fuel (chiefly tar and heavy creosote) ..... | ...             | ...       | 61,930        | ...       | 24,924        |
| Electricity - purchased ...                       | K. W. H.        | 3,234,731 | 24,874        | 3,562,390 | 24,409        |
| TOTAL .....                                       | ...             | ...       | 341,929       | ...       | 341,482       |



Table 5 - POWER EQUIPMENT, 1945 and 1946

|  | Ordinarily in Use |                         | In Reserve or Idle |                         |
|--|-------------------|-------------------------|--------------------|-------------------------|
|  | Number of units   | Total rated horse power | Number of units    | Total rated horse power |
| <u>1 9 4 5</u>                               |                   |                         |                    |                         |
| Steam engines .....                          | 1                 | 12                      | 2                  | 30                      |
| Steam turbines .....                         | 2                 | 21                      | ...                | ...                     |
| Gasoline, gas and oil engines ..             | 12                | 150                     | 1                  | 75                      |
| Electric motors run by purchased power ..... | 82                | 568                     | 17                 | 319                     |
| TOTAL .....                                  | 97                | 751                     | 20                 | 424                     |
| Stationary power boilers .....               | 13                | 1,206                   | 4                  | 315                     |
| <u>1 9 4 6</u>                               |                   |                         |                    |                         |
| Steam engines .....                          | 3                 | 33                      | 2                  | 30                      |
| Steam turbines .....                         | ...               | ...                     | ...                | ...                     |
| Gasoline, gas and oil engines ..             | 12                | 150                     | 1                  | 75                      |
| Electric motors run by purchased power ..... | 91                | 634                     | 17                 | 95                      |
| TOTAL .....                                  | 106               | 817                     | 20                 | 200                     |
| Stationary power boilers .....               | 12                | 1,142                   | 4                  | 315                     |

Table 6 - MATERIALS USED, 1945 and 1946

| Material                   | 1 9 4 5    |               | 1 9 4 6    |               |
|----------------------------|------------|---------------|------------|---------------|
|                            | Quantity   | Cost at works | Quantity   | Cost at works |
|                            |            | \$            |            | \$            |
| Crude tar ..... Imp.gal.   | 38,034,109 | 2,709,421     | 34,889,946 | 2,493,538     |
| All other materials ... .. | ...        | 647,047       | ...        | 622,629       |
| TOTAL .....                | ...        | 3,356,468     | ...        | 3,116,167     |

Table 7 - PRODUCTS MADE, 1945 and 1946

| Product                       | 1 9 4 5    |                        | 1 9 4 6    |                        |
|-------------------------------|------------|------------------------|------------|------------------------|
|                               | Quantity   | Selling value at works | Quantity   | Selling value at works |
|                               |            | \$                     |            | \$                     |
| Refined tar ..... Imp.gal.    | 10,477,777 | 980,635                | 5,234,788  | 562,172                |
| Pitch ..... tons              | 68,144     | 1,208,070              | 85,018     | 1,511,706              |
| Creosote oils ..... Imp.gal.  | 10,244,257 | 1,674,056              | 10,234,997 | 1,718,888              |
| All other products (x) ... .. | ...        | 1,753,552              | ...        | 1,716,961              |
| TOTAL .....                   | ...        | 5,616,313              | ...        | 5,509,727              |

(x) Includes coal tar paints, cements and disinfectants; asphalt cements, asphalt saturant, pitch coke, naphthalene, phenol, cresol, orthocresol, meta para-cresol, cresylic acid, phthalic anhydride, dibutyl phthalate, etc.



Coal Tar Distillation

Table 8 - IMPORTS INTO CANADA AND EXPORTS OF COAL TAR, PITCH, ETC., 1945 and 1946

| Item                     | 1 9 4 5  |           | 1 9 4 6  |           |         |
|--------------------------|----------|-----------|----------|-----------|---------|
|                          | Quantity | Value     | Quantity | Value     |         |
|                          |          | \$        |          | \$        |         |
| <u>(a) Imports</u>       |          |           |          |           |         |
| Coal tar, crude .....    | Imp.gal. | 2,370,710 | 174,178  | 3,271,874 | 256,334 |
| Coal pitch .....         | lb.      | 4,343,300 | 50,311   | 3,844,100 | 43,311  |
| Carbolic or heavy oil .. | Imp.gal. | 203,949   | 46,469   | 231,054   | 59,395  |
| <u>(b) Exports</u>       |          |           |          |           |         |
| Coal tar and pitch ..... | Imp.gal. | 3,130,121 | 280,336  | 2,209,450 | 193,702 |
| Creosote oil .....       | Imp.gal. | 1,742,625 | 266,558  | 86,534    | 16,262  |
| Coal tar oils, other ... | Imp.gal. | 2,262,381 | 374,302  | 2,848,557 | 425,653 |

LIST OF FIRMS IN THE COAL TAR DISTILLATION INDUSTRY, 1946

| Name                                    |            | Address   |
|---|------------|---|
| Dominion Tar & Chemical Company Limited | H.O.       | 2240 Sun Life Building,<br>Montreal, Quebec   |
|   | Plants at: | Sydney, Nova Scotia<br>Ville LaSalle, Quebec<br>Sault Ste. Marie, Ontario<br>Toronto, Ontario<br>St. Boniface, Manitoba |
| The Barrett Company Limited             | H.O.       | 5551 St. Hubert Street,<br>Montreal, Quebec   |
|   | Plants at: | Montreal, Quebec<br>Toronto, Ontario<br>Winnipeg, Manitoba<br>Vancouver, B. C.  |
| Currie Products Limited                 |            | 87 Sheaffe Street,<br>Hamilton, Ontario   |
| Northern Tar & Chemical Company Limited |            | 2nd Avenue,<br>Port Arthur, Ontario   |