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## THE COAL TAR DISTILLATION INDUSTRY 1959

Published by Authority of
The Honourable George Hees, Minister of Trade and Commerce

## Cuman <br> DOMINION BUREAU OF STATISTICS <br> Industry and Merchandising Division



## PUBLICATIONS

The results of the annual Census of Industry are pumtsnad by the Cominion Bureau of ctatistics in a series of industry reports which are released each year as the compilations are completed, Reports for industries classified to the Chemicals and Allied Products Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, of from the Queen's Printer, Ottawa.


Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

## EXPLANATORY NOTES

This report is one in a series of about 130 wolications which present the results of the 1959 Cansus of Manufactures. Most reports in this serles refer to specific industries, but there are summary reports for Canada and the provinces and for malor industry groups. An annual Census of Manufactures has been carfled out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salarles and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Detalls of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1959 are as follows:

## Period Covered

Firns are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basls in all cases.

## Establishment

Data for the annual census is collected on sil establishment basis. A firm with more than one chant is required to file a report for each plant. In hacst cases an establishment is a complete factory Bumetimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are avallable. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding. boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

## Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen cising work similar to that of the employees they supervise are included, as are maintenance, waremousing and delivery staffs. Employees on rew construction work, in retail of wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

## Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.
salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners of partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

## Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars and trucks), not to purchases unless the quantities are the same Values refer to the lald-down cost at the works, including freight, duty, etc

## Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others of received as transfers from other plants of reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

## Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant of by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use. export, or for government departments. Transfet shipments to sales outlets, distributing warehouses of to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on P.o.b. plant of
plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbullding, alrcraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done ir: previous years on finished units delivered in the year under review.

## Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses of selling outlets which have been included with plant operations for purposes of reporting shipments.

## Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials. fuel and electricity. This figure is sometimes referred to as net production. ${ }^{1}$

## Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Bominion Bureau of Statistics, provides for 135 three-digit industrles in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted tc specific industries on the basis of the value of principal products made or shipped.

## Short Forms

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at $\$ 50,000$ value of shipments. About $40 \%$ of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

[^0]For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to $\$ 100,000$ value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category Were set at between $\$ 100,000-\$ 500,000$ value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand. limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and eamings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page sho:t form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data or. volume and value of materials used. For purpose: of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 pet cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shlpments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made os in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of estatlishments and a little more than 3 per cent of the total value of shipments.

## THE COAL TAR DISTILLATION INDUSTRY

## 1959

Output from the Coal Tar Distillation Industry in 1959 was valued at $\$ 13,267,489$ an increase of 10.4 per cent from the $\$ 12,018,034$ reported in 1958. Factory shipments of creosote oils totalled $10,148,218$ gallons valued at $\$ 2,669,178$ in 1959; refined tats amounted to $2,277,265$ gallons at $\$ 541,323$ and pitch totalled 126,620 tons at $\$ 5,703,209$. Phenols, cresols, cresylic acid, xylenols, phthalic anhydride, coal tar paints, pitch coke, tat and asphalt cements, disinfectants and asphalt saturants were other principal products.

Eight plants operated in 1959 there being 1 in Nova Scotia; 1 in Quebec and 6 in Ontario. These works afforded employment to 491 people who were paid $\$ 2,752,373$ in salaries and wages.

Materials for manufacturing cost $\$ 7,647,291$ in 1959 including $37,887,359$ gallons of crude tars at $\$ 5,400,684$. In addition an amount of $\$ 747,643$ was paid for fuel and electricity.

TABLE 1. Principal Statistics of the Coal Tar Distillation Industry, Significant Vears, 1929-59

|  | Estab-lishments | Em: ployees | Salaries and wages | Cost of <br> fuel and <br> electricity <br> at plant | Cost at plant of matetials used | Value added by manufacture ${ }^{1}$ | Gross selling value of ptoducts ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | number |  | dollars |  |  |  |  |
| 1929 | 10 | 242 | 353,970 | 123,019 | 2,658, 555 | 1,036,476 | 3,818, 050 |
| 1933 | 10 | 183 | 272,439 | 74,186 | 1,076,277 | 521,836 | 1,672,299 |
| 1937 | 10 | 254 | 357, 744 | 170,910 | 2, 189, 237 | 1,039,394 | 3,399,541 |
| 1939 | 11 | 302 | 393,522 | 163,950 | 2, 108,544 | 1,375,586 | 3,648,080 |
| 1943 | 10 | 424 | 789,335 | 326,448 | 4,059,598 | 2,154,239 | 6,540,285 |
| 1946 | 11 | 410 | 740,619 | 341,182 | 3,116, 167 | 2,052,078 | 5,509,727 |
| -349 | 11 | 415 | 1,166,863 | 549,310 | 4,786,640 | 3,996,837 | 9,332,787 |
| - 055 | 11 | 528 | 2,080,557 | 611,810 | 7,010,908 | 4,802,463 | 11,892, 812 |
| : 256 | 11 | 537 | 2,458,014 | 703,832 | 8,048,543 | 4,549,278 | 13,221,192 |
| 1957 | 11 | 530 | 2,600,013 | 770,891 | 8,200,347 | 4,809,942 | 13,663,996 |
| 1958 | 10 | 572 | 2,761,006 | 744,488 | 7.611,604 | 3,463, 246 | 12,018,034 |
| $1959{ }^{2}$ | 8 | 491 | 2,752,373 | 747,643 | 7,647, 291 | 4, 849,644 | 13,267,489 |

[^1]TABLE 2. Inventories. ${ }^{1} 1959$

|  | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | dollars |  |  |  |
| Opening | 657,412 | 43,288 | 1,299,059 | 1,999,759 |
| Closing | 607, 726 | 20,295 | 1,299,141 | 1,927, 162 |

[^2]TABLE 3. Products of the Coal Tar Distillation Industry, 1958 and 1959

| Product | 1958 |  | 1959 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value of factory shipments | Quantity | Value of factory shipments |
|  |  | \$ |  | \$ |
| Refined tar $\qquad$ Imp. gal. Pitch $\qquad$ ton | $\begin{array}{r} 3,213,996 \\ 114,498 \end{array}$ | 700, 338 <br> 4. 707, 497 | $\begin{array}{r} 2,277,265 \\ 126,620 \end{array}$ | 541, 323 <br> 5, 703,209 |
|  | 9, 576,092 | $2,635,062$ $3,975,137$ | 10,148, 218 | $2,669,178$ $4,353,779$ |
| Totals. | $\ldots$ | 12, 018, 034 | ... | 13, 267, 489 |

${ }^{2}$ Includes coal tar paints. cements and disinfectants; also asphalt cements, asphalt saturant, pitch coke, phenol, cresol, orthocresol, metaparacresol, cresylic acid, phthalic anhydride, etc. Figures cannot be shown for these items as each was made by only one or two companies.
... Figures not appropriate or not applicable.

TABLE 4. Materials Used in the Coal Tar Distillation Industry, 1958 and 1959

| Material | 1958 |  | 1959 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost at plant | Quantity | Cost at plant |
|  |  | \$ |  | \$ |
| Crude coal tar .......................................... Imp. gal. | 36,200, 225 | 5. 315.877 | 37. 849.195 | 5, 395,084 |
| Crude water-gas tar .............................................. | 246, 448 | 28,746 | 38,164 | 5,600 |
| Asphalt ...................................................... | 149,937 | 25,985 | 181,888 | 33, 223 |
| Containers and packing materials ............ |  | 510,515 | . | $385,764$ |
| All other materials ................................... | ... | 1.730, 481 | ... | $1,827,620$ |
| Totals | ... | 7,611,604 | ... | 7.647, 291 |

.. Figures not available.
... Figures not appropriate or not applicable.

TARLE 5. Production ${ }^{1}$ of Creosote Oils, Pitch and Relined Tars, 1950-59

| Year | Creosote and other oils | Pitch | Refined tar. tarvia, etc. |
| :---: | :---: | :---: | :---: |
|  | Imp. gal. | ton | Imp. gel. |
| 1950 1951 | $\begin{aligned} & 11,728,014 \\ & 11,726,520 \end{aligned}$ | $\begin{aligned} & 113,510 \\ & 112,141 \end{aligned}$ | $\begin{aligned} & 4,324,803 \\ & 4,377,223 \end{aligned}$ |
| 1952 | 11, 608, 114 | 131,742 | 3,976,884 |
| 1953 | 13,750, 179 | 132,737 | 4,742,967 |
| 1954 | 10,959, 458 | 135,912 | 4,641,583 |
| 1955 | 10,240, 525 | 119,649 | 3,559,726 |
| 1956 | 9,630, 724 | 134,195 | 3,816, 392 |
| 1957 | 11.984,000 | 120,660 | 2,976,000 |
| 1958 | 9,576,092 | 114,498 | $3,214,000$ |
| 1959 | 10,666,050 | 134,130 | 2,539,700 |

(a) Factory shipments since 1953.
(b) Since 1959 includes production by distilleries included es divisions of establishments classified to the Roofing Paper Industry.

TABLE 6. Crude Tar Used in Tar Distilleries ${ }^{1}$ 1950-59


[^3]TABLE 7. Employees and their Earnings in the Coal Tar Distillation Industry, 1955-59

| Year | Employees |  |  |  |  | Earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Supervisory and office |  | Production and related workers |  | Total | Supervisory and office | Production and related workers | Total |
|  | Male | Female | Male | Female |  |  |  |  |
|  | number |  |  |  |  | dollars |  |  |
| 1955 ............................................. | 136 | 30 | 356 | 6 | 528 | 807,533 | 1,273, 024 | 2,080,557 |
| 1956 .............................................. | 124 | 30 | 377 | 6 | 537 | 1,046,763 | 1, 411, 251 | 2,458,014 |
| 1957 ............................................. | 128 | 33 | 365 | 4 | 530 | 1,160,986 | 1,439,027 | 2,600,013 |
| 1958 | 165 | 40 | 364 | 3 | 572 | 1,318,112 | 1, 442,894 | 2,761,006 |
| 1959 ............................................... | 151 | 32 | 306 | 2 | 491 | 1,432,889 | 1,319,484 | 2,752,373 |

TABLE 8. Production Workers, by Months, 1958 and 1959


TABLE 9. Capital and Repair Expenditures in the Coal Tar Distillation Industry, 1955-59

| Yea | Capital expenditures |  | Subtotal | Repair and maintenance expenditures |  | Sub-total | $\qquad$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Construction | Machinery and equipment |  | Construction | Machinery and equipment |  |  |
|  | thousands of dollars |  |  |  |  |  |  |
| 1955 | 1 | 1 | 190 | 1 | 1 |  |  |
| 1956 | 1 | 1 | 227 | 1 | 1 | 699 | 807 926 |
| 1957. | 1 | 1 | 776 | 1 | 1 | 678 | 1.454 |
| 1958. | 1 | 8 | 2,200 | 1 | 1 | 706 | 2,906 |
| 19598 | 1 | 1 | 348 | 1 | : | 640 | -988 |

[^4]TABLE 10. Imports and Exports of Coal Tar, Pitch, etc., 1958 and 1959

| Item |  | 1958 |  | 1953 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | value | Quantity | Value |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| Coal, tar, crude | Imp. gal. | 670.489 | 142.803 | 350.641 | 79,662 |
| Coal pitch... | cwt. | 1,235,700 | 2.412. 111 | 1,157.729 | 2,434,739 |
| Carbolic or heavy oil .. | Imp. gal. | 2. 925.280 | 557,344 | 4,045,024 | 750, 233 |
| Exports |  |  |  |  |  |
| Coal tar and pitch | - | 1.189.647 | 120.122 | 8.125 | 3, 547 |
| Creosote oil .......... | " | 540 | 142 | 50 | 138 |
| Coal tar oils, othet | " | 1.088,500 | 300.490 | 3,586, 500 | 1,005,675 |

TABLE 11. Fuel and Electricity used in the Coal Tar Distillation Industry, 1958 and 1959

| Kind | 1958 |  | 1959 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost at works | Quantity | Cost at works |
|  |  | \$ |  | \$ |
| Bituminous coal - Canadian $\qquad$ | $\begin{array}{r} 1.168 \\ 14,958 \end{array}$ | $\begin{array}{r} 17.520 \\ 179,496 \end{array}$ | $\begin{array}{r} 1,463 \\ 13,815 \end{array}$ | $\begin{array}{r} 20,817 \\ 144,185 \end{array}$ |
| Anthracite coal ........................................................ | - | - | 153 | 3.430 |
| Gasoline (tncluding gasoline used in cars and trucks) Imp. gal. | 38,000 | 16,000 | 3,901 | 1,525 |
| Fuel oil .................................................................... | 3.130, 390 | 356. 014 | 3, 764, 121 | 340,647 |
| Gas - Manufactured .................................................. M cu. ft. | 290,000 | 80.828 | 273, 182 | 71.300 |
| Electricity purchased ........................................................ Wh. | 13,600.300 | 94,630 | 16,360,407 | 106. 177 |
| Other fuel ......... | - | - | . | 59,562 |
| Totals | ... | 744,488 | $\ldots$ | 747,643 |

.. Figures not available.
... Figures not appropriate or not applicable.

List of Firms in the Coal Tar Distillation Industry, 1959

| Name | Head office address | Location of plant |
| :---: | :---: | :---: |
| Dominion Tar \& Chemical Company Limited | 2240 Sun Life Buildirg, Montreal, Quebec | Sydney, Nova Scotia <br> Ville Lasalle, Quebec Sault Ste, Marie, Ontario Toronto, Ontario Hamilton, Ontario |
| The Barett Company Limited ${ }^{2}$ | 5551 St. Hubert Street, Montreal, Quebec | Toronto, Ontario |
| Currie Products Limited | 87 Sheaffe Street, Hamilton, Ontario ........ | Hamilton, Ontario |
| Northern Tar\& Chemical Company Limited | P.O. Drawer 310, Port Arthur, Ontario... | 2nd i venue, Port Arthur, Ontario |

[^5]


[^0]:    ${ }^{2}$ To arrive at the National Accounts concept of "gross domestic product at factor cost". it would be necessary to subtract also the cost of offlce supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202. Survey of Production.

[^1]:    ${ }^{1}$ Due to lack of inventory data, figures for "Value added by manufacture" prior to 1954 were obtained by subtracting tbe cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in tbe value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process'" as well as the finished goods held at plant or plant warehouse.
    ${ }^{2}$ See footnote to Directory on page 8 . On this account figures for 1959 are not axactly comparable withearlier years.
    Note: Profits or losses cannot be calculated fromabove figures as data are not available for general expense items, sucb as interest, rent, depreciation, taxes, insurance, advertising, etc.

[^2]:    ${ }^{1}$ (a) Book value of all manufacturing inventories awned and beld at plant and plant warebouses.
    (b) Beginning witb 1954, information on the value of yeatend inventory holdings at plant and plant warehouses is hoing collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The Summarized results for the Coal Tar Distillation Industry for the year under review are shown in the above table,
    (c) The opening inventory for the current year may not necessarily agree with the closing inventory published the watious year because of changes in the composition of the industry such as: the addition of new establishments, the disappearance of old ones, or the transfer of establishments to otber industries for statistical purposes. The figure for value shided by manufacture for the previous year does not need to be altered because of sucb changes in the composition of the industry.

[^3]:    ${ }^{2}$ Including tar used by distilleries included as divisions of establishments classified to the Roofing Paper Industry.

[^4]:    ${ }^{1}$ Not available separately - see sub-total.
    P Prellminary ligures.

[^5]:    ${ }^{1}$ Commencing in 1959. The Barrett Company plants at Montreal and Vancouver are reporting under the Roofing Paper Industry.

