

## THE COAL TAR DISTILLATION INDUSTRY

## 1958

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DOMINION BUREAU OF STATISTICS<br>Industry and Merchandising Division

## PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics 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, or from the Queen's Printer, Ottawa.
A - Annual
B - Biennial
M - Monthly
S.C. - Special Compilation

Catalogue
number
Title
Price

46-201 Chemicals and Allied Products - General Review (A)............................................... . 50

46-203 Adhesives Industry (A).............................................................................................................. . 50

46-205 Compressed Gases Industry (A) ..................................................................................................................... 50


46-209 Medicinal and Pharmaceutical Preparations Industry (A) ........................................... . 50
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46-217 Chemicals and Allied Products - Preliminary Summary Statistics (A)....................... . 25
32-005 Margarine Statistics (M) per year ..... 1.00
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46-003 Soaps and Synthetic Detergents (M) ..... 1.00
(S.C.) Sulphuric Acid, Caustic Soda and Chlorine (A) .....  25
46-401 Consumption of Chemicals in Municipal Waterworks (B) ..... 25
46-207 Fertilizer Trade (A) .....  50
46-212 Sales of Pest Control Products by Canadian Registrants (A) ..... 25
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46-002 Specified Chemicals ( 10 items) (M) per year ..... 1.00
31-001 Inventories, Shipments and Orders in Manufacturing Industries (M) per year ..... 4.00
31-201 General Review of the Manufacturing Industries (A) ..... 2.00
65-004 Trade of Canada - Exports (M) per year ..... 7.50
65-007 Trade of Canada - Imports (M) per year ..... 7.50

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## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry gtoups. An annual Census of Manufactutes has been cariled out by the Dominion Bureau of Statistics since 1916.

Industry statistics glven in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics. With special reference to 1958, are as follows:

## Period Covered

Firms are asked to submit figures for the calendar year. If at all possible, and most reports are on this basis. Financial year reports for perlods differing from the calendar yeat 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 basis in all cases.

## Establishment

Data for the annual census is collected on an estabilshment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classlifable 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 retall 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 industrles) 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-w ork bas is. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or 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 financlal year basis.

## Salaries and Wages

Salaries and wages refer to gross eapnings of the employees described above, including salaries, wages, commissions, bonuses, the value of toom and board where provided, deductions for income tax a nd 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 ownets or 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 laid-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 manufacturess for work done on materlals 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 recelved 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 manufactuters 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. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reparting firm ase included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts recelved in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, 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 in previous years on finished units delivered in the year under review.

## Inventories

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

## Value Added by Manufacturing

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

## Standard Industrial Classification

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

## Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detall. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at $\$ 50,000$ gross value of shipments annually, but there were lower cut-offs for a number of industrles in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

[^0]
## THE COAL TAR DISTILLATION INDUSTRY

Output from the Coui Tar Ioistillation Industry in 1958 was valued at $\$ 12,018,034$ a decrease of 12 per cent from the $\$ 13,663,996$ reported in 1957. Factory shipments of creosote oils totalled 9,576,092 gallons valued at $\$ 2,635,062$ in 1958; refined tars amounted to $3,213,996$ gallons at $\$ 700,338$ and pitch totalled 114,498 tons at $\$ 4,707,497$. Phenols, cresols, cresylic acid, xylenols, phthalic anhydride, coal tar paints, pitch coke, tar and asphalt cements, disinfectants and asphalt saturants were other principal products.

Fen phants operated in 1958 there being 1 in Nova Scotia, 2 in Quebec, 6 in Ontario and 1 in British Columbia. These works afforded employment to 572 people who were paid $\$ 2,761,000$ in salaries and wages.

Materials for manufacturing cost $\$ 7,611,604$ in 1958 including $36,446,673$ gallons of crude tars at $\$ 5,344,623$. In addition an amount of $\$ 744,488$ was paid for fuel and electricity.

TABLE 1. Principal Statistics of the Coal Tar Distillation Industry, Significant Years, 1929-58

|  | Estab-Hishments | Employees | Salaries and wages | Cost of fuel and electricity at plant | Cost at plant of materisls used | Value added by manufacture ${ }^{2}$ | Gross selling value of products |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |
| 1243 | 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 |
| 49 | 11 | 415 | 1.166, 863 | 549, 310 | 4, 786,640 | 3, 996, 837 | 9.332. 787 |
| . 254 | 11 | 544 | 2.101.870 | 655, 821 | 7.417.777 | 4.752. 227 | 12.878, 275 |
| 1355 | 11 | 528 | 2, 080, 557 | 611,810 | 7, 010, 908 | 4, 802, 463 | 11.892, 812 |
| 1956 | 11 | 537 | 2. 458, 014 | 703. 832 | 8, 048, 543 | 4.549,278 | 13. 221, 192 |
| 1957 | 11 | 530 | 2, 600, 013 | 770, 891 | B, 200, 347 | 4. 809,942 | 13.683,996 |
| 1958 | 10 | 572 | 2,761,006 | 744. 488 | 7.611.604 | 3,463,246 | 12, 018, 034 |

[^1]TABLE 2. Inventories, ${ }^{1} 1958$

|  | Raw materlals <br> and supplies | Goods in <br> process | Finished goods <br> of own <br> manufacture | Total |
| :--- | ---: | ---: | ---: | ---: | :---: |

[^2]TABLE 3. Products of the Coal Tar Distillation Industry, 1957 and 1958

| Product | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value of factory shipments | Quantity | Value of factory shipments |
|  |  | \$ |  | \$ |
| Refined tar $\qquad$ $\qquad$ Imp. gal. Pitch ton <br> Creosote olls $\qquad$ Imp. gal. <br> All other products ${ }^{1}$ $\qquad$ | $\begin{gathered} 2,976,469^{2} \\ 120,660 \\ 11.984,155 \end{gathered}$ | $\begin{array}{r} 672,733 \\ 5,354,758 \\ 3,188,592 \\ 4,447,913 \end{array}$ | $\begin{array}{r} 3,213,996 \\ 114,498 \\ 9,576,092 \end{array}$ | $\begin{array}{r} 700,338 \\ 4,707,497 \\ 2,635,062 \\ 3,975,137 \end{array}$ |
| Total .................................................. | - | 13,663,996 | - | 12.018,034 |

[^3]TABLE 4. Materials Used in the Coal Tar Distillation Indnstry, 1957 and 1958

| Material | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost at plant | Quantity | Cost at plant |
|  |  | \$ |  | \$ |
| Crude coal tar $\qquad$ Imp. gal. |  | 5,963,177 |  | 5, 315,877 |
| Crude water-gas tar | 1.038,317 | 140,296 | 246,448 | 28.746 |
| Asphalt .................................................... | 140.959 | 23,871 | 149,937 | 25.985 |
| Containers and packing materials ............. | - | -526,920 | - | 510,515 |
| All other materials ....... | - | 1.546,083 | - | 1, 730,481 |
| Total | - | 8,200,347 | - | 7, 611, (6) 4 |

TABLE 5. Production ${ }^{1}$ of Creosote Oils, Pitch and Refined Tars, 1949-58

|  | Yeat | Creosote and other oils | Pitch | Reflned tar, tarvia, etc. |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Imp. gal. | tons | Imp. gel. |
| 1949 | .... | 12.556,889 | 92. 291 | 3, 542,989 |
| 1950 | ........ | 11. 728, 014 | 113,510 | 4,324,803 |
| 1951 |  | 11.726,520 | 112,141 | 4,377,223 |
| 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 |
| 1985 |  | 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 ${ }^{2}$ |
| 1958 |  | 9,576,092 | 114,498 | 3,214,000 |

${ }^{2}$ Factory shipments since 1953.
${ }^{2}$ Revised.

TABLE 6. Crude Tar Used in Tar Distilleries, 1949-58

|  | Year | Imp. Eal. |  | Year | Imp. gal. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1949 |  | 32, 428, 300 | 1954 |  | 38.542,083 |
| 1950 | . | 41,324,989 | 1955 |  | 39, 746,903 |
| 1951 | .... | 40,260, 705 | 1956 |  | 43,141,887 |
| 1952 |  | 43,037,000 | 1957 |  | 40, 946,000 |
| 1953 |  | 45, 401,000 | 1958 | ......0...................................................... | 36,447, 000 |

TABLE 7. Employees and their Earnings in the Coal Tar Distillation Industry, 1954-58


TABLE 8. Production Workers, by Months, 1957 and 1958

| Month | 1957 |  |  | 1958 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Total | Male | Female | Total |
|  | number |  |  |  |  |  |
| January .................................................................... | 365 | 4 | 369 | 371 | 3 | 374 |
| February .................................................................. | 370 | 4 | 374 | 367 | 3 | 370 |
| Akrch ................................................................... | 369 | 4 | 373 | 364 | 3 | 367 |
| April ...................................................................... | 373 | 4 | 377 | 363 | 3 | 366 |
| May ........................................................................ | 350 | 4 | 354 | 375 | 3 | 378 |
| June ..................................................................... | 368 | 4 | 370 | 371 | 3 | 374 |
| JuLy .................................................................... | 387 | 4 | 391 | 385 | 3 | 388 |
| August .................................................................. | 377 | 4 | 381 | 371 | 3 | 374 |
| September .............................................................. | 366 | 4 | 370 | 358 | 3 | 361 |
| October ................................................................. | 358 | 4 | 362 | 346 | 3 | 349 |
| November ............................................................... | 349 | 4 | 353 | 342 | 3 | 345 |
| December .............................................................. | 345 | 4 | 349 | 354 | 3 | 357 |
| Average ......................................................... | 365 | 4 | 369 | 364 | 3 | 367 |

TABLE 9. Capital and Repair Expenditures in the Coal Tar Distillation Industry, 1954-58


[^4]TABLE 10. Imports and Exports of Coal Tar, Pitch, etc., 1957 and 1958

| Item | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
| Imports |  | \$ |  | $\$$ |
| Coal,tar, crude ........................................................... Imp. gal. | 1,186, 232 | 201,149 | 670,489 | 142, 803 |
| Coal pitch ................................................................. 1 l . ${ }^{\text {a }}$ | 138, 939,900 | 2.666,172 | 123, 577, 000 | 2.412,111 |
| Carbolic or heavy oil ................................................ Imp. gal. | 4,165,969 | 888,075 | 2,925,280 | 557,344 |
| Exports |  |  |  |  |
| Coal tar and pitch ....................................................... Imp. gal. | 1, 880, 203 | 303. 246 | 1,189,647 | 120. 122 |
| Creosote oil............................................................... ". | 2,024.154 | 443.228 | 1, 540 | . 142 |
| Coal tar oils, other ..................................................... ${ }^{\text {. }}$ | 1,698,096 | 499,080 | 1,088,500 | 300,490 |

TABLE 11. Fuel and Electricity Used in the Coal Tar Distillation Industry, 1957 and 1958

| Kind | 1957 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost at works | Quentity | Cost at works |
|  |  | \$ |  | \$ |
| Bituminous coal - Canadian ........................................ ton | 1,374 | 19,920 | 1,168 | 17,520 |
| -Imported .......................................................... | 15.125 | 172,792 | 14,958 | 179,496 |
| Sub-bituminous coal .................................................. | 57 | 374 | - | - |
| Anthracite coal ...................................................... | - |  | - | - |
| Gasoline (including gasoline used in cars and trucks) Impagal. | 41,483 | 17.220 | 38,000 | 16.000 |
| Fuel oll ................................................................. ${ }^{\text {co. }}$ | 3, 526,421 | 393.483 | 3. 130, 390 | 356, 014 |
| Gas - Manufactured ..................................................... M cu. $\mathrm{ft}^{\text {. }}$ | 268,686 | 70. 550 | 290.000 | 80.828 |
| Electricity purchased ................................................. kwh. | 14,028,941 | 96, 024 | 13,600,300 | 94,630 |
| Other fuel ................................................................... | - | 528 | - |  |
| Total | - | 770, 891 | - | 744,488 |

TABLE 12. Power Equipment in Use or Available for Use at the End of 1958

| Type of equipment | Driving generators |  | Not driving generators |
| :---: | :---: | :---: | :---: |
|  | horsepower |  |  |
| A. Prime movers: |  |  |  |
| Steam engines ................................................................................... |  | 24 | 120 |
| Steam turbines .......................................ere...................a.c....... |  | 24 | 111 |
| Gasoline, gas and oil engines, other than diesel engines ................... |  | - |  |
| Total ............................................................................................ |  | 24 | 236 |
| B. Electric motors (one-quarter horsepower and over) .................................. |  | - | 4,328 |

List of Firms in the Coal Tar Distillation Industry, 1958

| Name | Head office address | Location of plant |
| :---: | :---: | :---: |
| Dominion Tar \& Chemical Company Limited .. | 2240 Sun Life Building, Montreal, Quebec | Sydney, Nowa Scotia Ville LaSalle, Quebec Sault Ste, Marie, Ontario Toronto, Ontario Hamilton, Ontario |
| The Barrett Company Limited ....................... | 5551 St. Hubert Street, Montreal, Quebec | Montreal, Quebec Toronto, Ontario Vancouver, British Columbia |
| Currie Products Limited ............................... | 87 Sheaffe Street, Hamilton, Ontario ........ | Hamilton, Ontario |
| Northern Tar \& Chemical Company Limited .... | P.O. Drawer 310, Port Arthur, Ontario .... | 2nd Avenue, Port Arthur, Ort. |


[^0]:    "To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office 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 publighed in D.B.S. publication 61-202, Surver of Production

[^1]:    "Due to lack of inventory data, figures for "Yalue added by manufacture" prior to 1954 were obtained by subtracting the 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 the value of inventorles over the period. For these two years, the adjustments that were made used only the change in Inished 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.

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

[^2]:    (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.
    (b) Beginning with 1954, information on the value of year-end Inventory holdings at plant and plant warehouses is ising collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The awnmarized results for the Coal Tar Distllation 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 wevious 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 other industries for statistical purposes. The fagure for value sdeted by manufacture for the previous year does not need to be altered because of such changes in the composition of the tisustry.

[^3]:    ${ }^{1}$ Includes coal tar paints, cements and disinfectants; also asphalt cements, asphalt saturant, pitch coke, phenol, cresol, orthocresol, metaparacresol, cresylic acid, phthalic anhydride, etc. Figutes cannot be shown for these items as each was made by only one or two companies.
    ${ }_{2}^{2}$ Revised.

[^4]:    Preliminary.
    2 Not available separately - see sub-total.

