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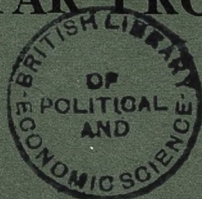
BOARD OF TRADE

THE REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1951

Volume 2

Trade D

COAL TAR PRODUCTS



*Presented by the Board of Trade to Parliament  
in pursuance of the Statistics of Trade Act, 1947  
(10 & 11 Geo. 6, Ch. 39, Sec. 7).*

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\* Not applicable to this trade

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COAL TAR PRODUCTS

COAL TAR PRODUCTS TRADE

COAL TAR PRODUCTS TRADE

THIS REPORT on the Coal Tar Products Trade relates to establishments engaged wholly or mainly in the manufacture by tar distillation of coal tar products other than dyes and dyestuffs.

This trade is included among the miscellaneous chemical industries in minimum list heading 31(4) in the Standard Industrial Classification.

Any establishments in Northern Ireland were excluded in 1948; no production was recorded there in this trade for 1937 or 1935.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

## CHEMICALS AND ALLIED TRADES

## COAL TAR PRODUCTS TRADE

## Summary

## Larger establishments (a)

TABLE 1

|  | United Kingdom |        |        | Great Britain |        | United Kingdom |       |       |
|--|----------------|--------|--------|---------------|--------|----------------|-------|-------|
|  | 1951           | 1950   | 1949   | 1949 (b)      | 1948   | 1946           | 1937  | 1935  |
|  | £'000          | £'000  | £'000  | £'000         | £'000  | £'000          | £'000 | £'000 |
| Gross output (production) (c)                  | 23,378         | 18,361 | 18,294 | ..            | 18,993 | 14,316         | 6,929 | 5,226 |
| Cost of materials and fuel used (d)            | 16,407         | 13,377 | 13,666 | ..            | 14,150 | 10,655         | 5,164 | 3,933 |
| Payment for work done on materials given out   | 55             | 8      | 19     | ..            | 21     | 21             | -     | -     |
| Transport payments (e)                         | 1,117          | ..     | ..     | ..            | ..     | ..             | ..    | ..    |
| Net output                                     | 5,799          | 4,976  | 4,609  | ..            | 4,821  | 3,640          | 1,765 | 1,293 |
| Wages and salaries of persons employed         | 2,491          | 2,249  | 2,176  | ..            | 2,114  | 1,570          | ..    | ..    |
| Average number of persons employed (f)         | No.            | No.    | No.    | No.           | No.    | No.            | No.   | No.   |
|  | 6,157          | 5,983  | 6,008  | ..            | 6,122  | 5,149          | 4,336 | 4,057 |
| Net output per person employed (f)             | £              | £      | £      | £             | £      | £              | £     | £     |
|  | 942            | 832    | 767    | ..            | 787    | 707            | 407   | 319   |
| Stocks at end of year                          | £'000          | £'000  | £'000  | £'000         | £'000  | £'000          | £'000 | £'000 |
| Products on hand for sale and work in progress | 1,850          | 1,580  | 1,796  | ..            | 1,473  | 1,134          | ..    | ..    |
| Materials and fuel                             | 1,478          | 1,109  | 1,047  | ..            | 1,073  | 697            | ..    | ..    |
| Number of establishments                       | No.            | No.    | No.    | No.           | No.    | No.            | No.   | No.   |
|  | 73             | 76     | 77     | ..            | 78     | ..             | ..    | 77    |

The values of gross output and of materials and fuel used are derived in the following way:-

|  | £'000  | £'000  | £'000  | £'000 | £'000  | £'000  | £'000 | £'000 |
|--|--------|--------|--------|-------|--------|--------|-------|-------|
| Output of firms in this trade (g)              | £'000  | £'000  | £'000  | £'000 | £'000  | £'000  | £'000 | £'000 |
| Principal products (h)                         | 21,729 | 19,264 | 18,683 | ..    | 18,066 | 14,644 | 6,312 | 4,757 |
| Other output (i)                               | 1,345  |        |        |       |        |        |       |       |
| Changes in stocks and work in progress (j)     | + 304  | - 186  | + 253  | ..    | + 258  | + 56   |       |       |
|  | 23,378 | 19,078 | 18,936 | ..    | 19,468 | 14,700 | 6,929 | 5,226 |
| Less payment for transport outwards (e)        | ..     | 717    | 642    | ..    | 475    | 384    |       |       |
| Gross output, (production)                     | 23,378 | 18,361 | 18,294 | ..    | 18,993 | 14,316 | 6,929 | 5,226 |
| Materials and fuel used by firms in this trade |        |        |        |       |        |        |       |       |
| Purchases                                      | 16,792 | 13,449 | 13,660 | ..    | 14,231 | 10,745 | 5,164 | 3,933 |
| Changes in stocks (j)                          | - 385  | - 71   | + 6    | ..    | - 81   | - 90   |       |       |
| Materials and fuel used                        | 16,407 | 13,377 | 13,666 | ..    | 14,150 | 10,655 | 5,164 | 3,933 |

(a) For small firms' summary see Table 2.

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.

(d) Amounts paid for delivery services are excluded for 1951 but included for other years.

(e) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.

(f) Including working proprietors. For an estimate of the total number of persons employed in this trade see Table 3.

(g) Total value of sales (1951, 1950, 1949, 1948 and 1946) or production for sale (1937 and 1935).

(h) For details for 1951 and 1948 see Table 8.

(i) For details for 1951 and 1948 see Table 10.

(j) For details for 1951 see Table 21.

## COAL TAR PRODUCTS

## Summary

## Small firms (a)

TABLE 2

|  | Great Britain |      | United Kingdom | Great Britain |      |
|--|---------------|------|----------------|---------------|------|
|  | 1951          | 1950 | 1949           | 1949          | 1948 |
| Number of returns                      | 13            | 17   | 20             | 19            | 16   |
| Average number of persons employed (b) |               |      |                |               |      |
| Males                                  | 61            | 78   | 97             | 88            | 79   |
| Females                                | 11            | 11   | 12             | 12            | 7    |
| Total                                  | 72            | 89   | 109            | 100           | 86   |

(a) Small firms (employing on the average ten or fewer persons) that made satisfactory returns. No information about small firms was collected in Northern Ireland for 1951 or 1950.

(b) Including working proprietors.

## Estimated average employment (a)

## All firms

TABLE 3

|   | United Kingdom |          |       | Great Britain |       |
|---|----------------|----------|-------|---------------|-------|
|   | 1951           | 1950     | 1949  | 1949          | 1948  |
| As returned by firms  |                |          |       |               |       |
| Employing on the average more than ten persons (b)                    | 6,157          | 5,983    | 6,008 | (c)           | 6,122 |
| Employing on the average ten or fewer persons (d)                     | 72(e)          | 89(e)    | 109   | 100           | 86    |
| Estimated average employment in firms not making satisfactory returns | 6,229          | 6,072    | 6,117 | (c)           | 6,208 |
| Estimated average employment in all firms                             | -              | -        | 11    | 11            | -     |
|   | 6,229(e)       | 6,072(e) | 6,128 | (c)           | 6,208 |

(a) Including working proprietors.

(b) See Tables 13(iv) and 14.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) See Table 2.

(e) Excluding any small firms in Northern Ireland.

## Analysis by size, 1951

## Larger establishments in the United Kingdom

TABLE 4

| Average number employed | Establishments | Gross output | Net output | Persons employed | Remuneration |                     |       | Net output per person employed |
|-------------------------|----------------|--------------|------------|------------------|--------------|---------------------|-------|--------------------------------|
|                         |                |              |            |                  | Operatives   | Other employees (a) | Total |                                |
|                         | No.            | £'000        | £'000      | No.              | £'000        | £'000               | £'000 | £                              |
| 11 - 24                 | 20             | 1,836        | 347        | 370              | 107          | 57                  | 165   | 938                            |
| 25 - 49                 | 21             | 3,748        | 684        | 779              | 234          | 102                 | 335   | 878                            |
| 50 - 99                 | 11             | 3,799        | 699        | 866              | 254          | 94                  | 348   | 807                            |
| 100 - 199               | 13             | 6,372        | 1,627      | 1,762            | 484          | 188                 | 672   | 923                            |
| 200 - 299               | 5              | 4,329        | 1,359      | 1,151            | 308          | 131                 | 439   | 1,181                          |
| 300 - 749               | 3              | 3,294        | 1,084      | 1,229            | 359          | 174                 | 533   | 882                            |
| Total                   | 73             | 23,378       | 5,799      | 6,157            | 1,746        | 745                 | 2,491 | 942                            |

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951

Larger establishments in the United Kingdom

TABLE 5

| Region  | Estab-lish-ments | Gross output | Net output |                      | Persons employed | Remuneration |                     |       | Net output per person employed |
|---|------------------|--------------|------------|----------------------|------------------|--------------|---------------------|-------|--------------------------------|
|   |                  |              | Value      | Percent-age of total |                  | Operatives   | Other employees (a) | Total |                                |
| England and Wales                               | No.              | £'000        | £'000      |                      | No.              | £'000        | £'000               | £'000 | £                              |
| Northern  | 12               | 3,423        | 962        | 16.6                 | 1,026            | 312          | 115                 | 427   | 937                            |
| East and West Ridings; and North Midland        | 14               | 5,402        | 1,440      | 24.8                 | 1,298            | 369          | 131                 | 500   | 1,110                          |
| Eastern; London and South Eastern; and Southern | 10               | 3,482        | 653        | 11.3                 | 747              | 212          | 92                  | 304   | 874                            |
| South Western; Midland; and Wales               | 14               | 5,968        | 1,769      | 30.5                 | 1,934            | 536          | 264                 | 800   | 915                            |
| North Western                                   | 13               | 3,183        | 594        | 10.2                 | 740              | 202          | 85                  | 287   | 803                            |
| Total England and Wales                         | 63               | 21,458       | 5,417      | 93.4                 | 5,745            | 1,632        | 687                 | 2,318 | 943                            |
| Scotland and Northern Ireland                   | 10               | 1,920        | 382        | 6.6                  | 412              | 114          | 59                  | 173   | 927                            |
| United Kingdom                                  | 73               | 23,378       | 5,799      | 100.0                | 6,157            | 1,746        | 745                 | 2,491 | 942                            |

(a) Administrative, technical and clerical employees.

TABLE 6 - Analysis according to specialisation within the trade, 1951

Larger establishments in the United Kingdom

No specialisation within this trade was distinguished.

Total make of intermediate products

Larger establishments

TABLE 7

|  | Returned in this trade |         | Returned in all trades |           |                     |           |                    |  |
|--|------------------------|---------|------------------------|-----------|---------------------|-----------|--------------------|--|
|  | United Kingdom 1951    |         | Great Britain 1948     |           | United Kingdom 1951 |           | Great Britain 1948 |  |
|  | Quantity               | Entries | Quantity               | Quantity  | Entries             | Quantity  |                    |  |
| Benzole, crude (including light oils distilling not less than 90 per cent. at 200°C) | Th.galls.              | No.     | Th.galls.              | Th.galls. | No.                 | Th.galls. |                    |  |
|  | 6,548                  | 15      | 3,741                  | 95,465    | 110                 | 82,620    |                    |  |

(93838/3)

Sales of the principal products of the trade, including sales of these products by establishments classified to other trades

Larger establishments

TABLE 8

|  | United Kingdom 1951 |        |         | Great Britain 1948 |          |
|--|---------------------|--------|---------|--------------------|----------|
|  | Quantity            | Value  | Entries | Quantity           | Value    |
|  | Th.galls.           | £'000  | No.     | Th.galls.          | £'000    |
| Benzole, crude (including light oils distilling not less than 90 per cent. at 200°C)                       | 35,721              | 2,979  | 67      | 42,902             | 3,540    |
| Benzole products (including products from benzole derived from gas)  |                     |        |         |                    |          |
| Benzole, refined (in terms of motor benzole)   | 67,072              | 8,059  | 73      | 63,102(a)          | 7,334(a) |
| Toluoles, refined (in terms of 90's toluole)   | 8,172               | 1,301  | 49      | 6,791(a)           | 925(a)   |
|  | ..                  | 200    |         |                    |          |
| Xyloles, refined (in terms of 3/5° xylene)   | 3,553               | 677    | 44      | 2,504              | 410      |
|  | ..                  | 121    |         |                    |          |
| Solvent naphtha (in terms of 90/160 grade)   | 3,783               | 592    | 42      | 3,254              | 453      |
| Heavy naphtha (in terms of 90/190 grade)   | 4,376               | 548    | 41      | 2,829              | 328      |
| Creosote oils (including anthracene oil)   | 107,796             | 4,814  | 69      | 87,430             | 3,069    |
|  | Th. tons            |        |         | Th. tons           |          |
| Creosote/pitch mixtures (made for use as fuel)   | 578.2               | 3,714  | 45      | 195.1              | 1,234    |
| Naphthalene (all grades, in terms of 66°C salts)   | 50.0                | 1,287  | 80      | 38.2               | 584      |
| Pitch  | 548.7               | 3,422  | 58      | 411.9              | 2,634    |
|  | Th.galls.           |        |         | Th.galls.          |          |
| Tar bases  | 333                 | 484    | 20      | 283(a)             | 253(a)   |
|  | Th. tons            |        |         | Th. tons           |          |
| Tar, refined (including mixtures containing not more than 10 per cent. of bitumen or other added material) | 618.5               | 4,339  | 56      | 608.5              | 3,964    |
|  | Th.galls.           |        |         | Th.galls.          |          |
| Tar acids  |                     |        |         |                    |          |
| Crude tar acids  | 6,228               | 1,288  | 22      | 5,447              | 920      |
| Cresylic acid, refined (all grades)  | 5,537               | 1,823  | 21      | 4,878              | 1,281    |
|  | Th. tons            |        |         | Th. tons           |          |
| Phenol crystals and liquefied phenol (equivalent crystal phenol content)                                   | 6.6                 | 929    | 12      | 5.0                | 499      |
| Phenol mixtures containing not less than 80 per cent. of phenol (equivalent crystal phenol content)        | 2.6                 | 329    | 10      | 3.1                | 300      |
|  | Th.galls.           |        |         | Th.galls.          |          |
| Other tar acids  | 1,259               | 369    | 16      | 1,277              | 310      |
|  | ..                  | 113    |         |                    |          |
| Other coal tar products (except dyes and dye-stuffs)   | ..                  | 1,643  | 77      | ..                 | 733      |
| Unclassified coal tar products   | ..                  | 1,486  | ..      | ..                 | 3,990(a) |
| Waste products   | ..                  | 17     | ..      | ..                 | 3        |
| Work done for the trade or on commission (b)   | ..                  | 75     | 7       | ..                 | 49       |
| Total  |                     | 40,612 | ..      |                    | 33,432   |
| Sales in other trades (see Table 9)  |                     | 18,883 | ..      |                    | 15,366   |
| Principal products of this trade sold by establishments in the trade                                       |                     | 21,729 | 43      |                    | 18,066   |

(a) Corrected figure.

(b) Amount charged.

(93838/3)

Sales of principal products of the trade by establishments  
classified to other trades

## Larger establishments

TABLE 9

|  | United Kingdom<br>1951 |            |         | Great Britain<br>1948 |          |
|--|------------------------|------------|---------|-----------------------|----------|
|  | Quantity               | Value      | Entries | Quantity              | Value    |
|  | Th.galls.              | £'000      | No.     | Th.galls.             | £'000    |
| Benzole, crude (including light oils distilling not less than 90 per cent. at 200°C)                       | 35,041                 | 2,921      | 58      | 41,168                | 3,414    |
| Benzole products (including products from benzole derived from gas)  |                        |            |         |                       |          |
| Benzole, refined (in terms of motor benzole)   | 47,148                 | 5,643      | 54      | 41,293(a)             | 4,778(a) |
| Toluoles, refined (in terms of 90's toluole)   | 4,893<br>..            | 761<br>200 | 33      | 3,177(a)              | 434(a)   |
| Xyloles, refined (in terms of 3/5° xylole)   | 1,548<br>..            | 275<br>121 | 30      | 914                   | 144      |
| Solvent naphtha (in terms of 90/160 grade)   | 879                    | 130        | 27      | 549                   | 73       |
| Heavy naphtha (in terms of 90/190 grade)   | 1,427                  | 182        | 28      | 565                   | 76       |
| Creosote oils (including anthracene oil)   | 24,843                 | 1,132      | 30      | 8,100                 | 252      |
|  | Th. tons               |            |         | Th. tons              |          |
| Creosote/pitch mixtures (made for use as fuel)   | 180.3                  | 1,182      | 16      | 23.9                  | 138      |
| Naphthalene (all grades, in terms of 66°C salts)   | 20.5                   | 551        | 57      | 12.1                  | 147      |
| Pitch  | 175.1                  | 1,132      | 22      | 73.0                  | 415      |
|  | Th.galls.              |            |         | Th.galls.             |          |
| Tar bases  | 69                     | 173        | 6       | 39(a)                 | 26(a)    |
|  | Th. tons               |            |         | Th. tons              |          |
| Tar, refined (including mixtures containing not more than 10 per cent. of bitumen or other added material) | 148.0                  | 1,021      | 21      | 48.1                  | 232      |
| Tar acids  |                        |            |         |                       |          |
| Phenol mixtures containing not less than 80 per cent. of phenol (equivalent crystal phenol content)        | 0.2                    | 26         | ..      | -                     | -        |
|  | Th.galls.              |            |         |                       |          |
| Crude tar acids  | 516                    | 107        | 7       | ..                    | 768      |
| Cresylic acid, refined (all grades)  | 600                    | 185        | ..      | ..                    | ..       |
| Other tar acids, including phenol crystals and liquefied phenol (equivalent crystal phenol content)        | 564<br>..              | 167<br>454 | 6       | ..                    | ..       |
| Unclassified   | -                      | -          | -       | ..                    | 242      |
| Other coal tar products (except dyes and dyestuffs)  | ..                     | 1,032      | 49      | ..                    | 238      |
| Unclassified coal tar products   | ..                     | 1,486      | ..      | ..                    | 3,990(a) |
| Total  |                        | 18,883     | ..      |                       | 15,366   |

(a). Corrected figure.

(93838/3)

## Sales in the trade of other than principal products

## Larger establishments

TABLE 10

|  | United Kingdom<br>1951 |       | Great Britain<br>1948 |       |
|--|------------------------|-------|-----------------------|-------|
|  | Quantity               | Value | Quantity              | Value |
|  | Th.cwts.               | £'000 | Th.cwts.              | £'000 |
| Disinfectants, antiseptics, insecticides, weed-killers, sheep and cattle dips, and like products |                        |       |                       |       |
| Coal tar disinfectants, antiseptics, and sheep and cattle dips and dressings                     | ..                     | 127   | 62.5                  | 121   |
| Other  | ..                     | 84    | ..                    | 28    |
| Ammonia liquor and other chemical products   | ..                     | 407   | ..                    | 347   |
| Manufactured bituminous products   |                        |       |                       |       |
| Bituminous emulsions (except emulsions for use as paint)   | 108.9                  | 77    | 123.4                 | 84    |
| Other  | 31.8                   | 54    | ..                    | 52    |
| Other goods  | ..                     | 124   | ..                    | 152   |
| Work done  | ..                     | 473   | ..                    | 80    |
|  |                        |       |                       | 2(a)  |
| Total  |                        | 1,345 |                       | 1,143 |

(a) Amount charged.

## Production, exports and imports of certain principal products (a)

TABLE 11

|  |      | Production (b) (c) | Exports   | Retained imports |
|--|------|--------------------|-----------|------------------|
|  |      | Th.galls.          | Th.galls. | Th.galls.        |
| Benzole, refined (d)   | 1951 | 67,072             | 41,564    | -                |
|  | 1948 | 64,589             | 54        | -                |
|  | 1937 | 60,723             | 48        | 4,181            |
| Creosote oils (including anthracene oil)                                 | 1951 | 107,796            | 26,394(e) | ..               |
|  | 1948 | 110,175            | 36,666(e) | ..               |
|  | 1937 | 96,581             | 40,315(e) | (f)              |
|  |      | Th. tons           | Th. tons  | Th. tons         |
| Naphthalene  | 1951 | 50.0               | 2.0       | -                |
|  | 1948 | 47.0               | 3.0       | -                |
|  | 1937 | 40.4(g)            | 11.0      | 0.8              |
| Pitch  | 1951 | 548.7              | 352.1     | (f)              |
|  | 1948 | 583.3              | 232.2     | -                |
|  | 1937 | 642.2              | 485.3     | 0.2              |
| Phenol crystals and liquefied phenol (equivalent crystal phenol content) | 1951 | 6.6                | 0.2       | 2.2(h)           |
|  | 1948 | 5.9                | -         | 5.7(h)           |
|  | 1937 | 3.6                | 0.6       | 0.4              |

(a) Figures of production (or sales) refer only to larger establishments in the United Kingdom (1951 and 1937) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the Table. The figures, therefore, are not strictly comparable.

(b) Sales in 1951, production in 1948, and production for sale in 1937.

(c) Including production (or sales) by establishments classified to other trades.

(d) The figures for sales in 1951 and production in 1948 are in terms of motor benzole; the export figures, which are unspecified, are thought to cover pure refined benzole.

(e) Excluding anthracene oil.

(f) Re-exports in excess of imports.

(g) In terms of crude naphthalene.

(h) Including crude phenol.

TABLE 12 - Usage of certain specified purchased materials, 1951  
Larger establishments in the United Kingdom

(93838/3)

No information on usage of materials was required from this trade.

TABLE 13

Employment in September  
Larger establishments (a)

|                | Number         |         |         |               |         |                |         |
|----------------|----------------|---------|---------|---------------|---------|----------------|---------|
|                | United Kingdom |         |         | Great Britain |         | United Kingdom |         |
|                | 1951(b)        | 1950(b) | 1949(b) | 1949(c)       | 1948(d) | 1937(d)        | 1935(d) |
| <b>Males</b>   |                |         |         |               |         |                |         |
| Under 18       | 132            | 106     | 111     | ..            | 136     | 170            | 148     |
| All ages       | 4,556          | 4,390   | 4,355   | ..            | 4,434   | 3,449          | 3,167   |
| <b>Females</b> |                |         |         |               |         |                |         |
| Under 18       | 15             | 18      | 15      | ..            | 14      | 17             | 6       |
| All ages       | 140            | 125     | 109     | ..            | 145     | 72             | 67      |
| <b>Total</b>   |                |         |         |               |         |                |         |
| Under 18       | 147            | 124     | 126     | ..            | 150     | 187            | 154     |
| All ages       | 4,696          | 4,515   | 4,464   | ..            | 4,579   | 3,521          | 3,234   |

(ii) Administrative, technical and clerical employees (e)

|                | Number         |          |          |               |          |                |      |
|----------------|----------------|----------|----------|---------------|----------|----------------|------|
|                | United Kingdom |          |          | Great Britain |          | United Kingdom |      |
|                | 1951           | 1950     | 1949     | 1949(c)       | 1948     | 1937           | 1935 |
| <b>Males</b>   |                |          |          |               |          |                |      |
| Under 18       | 85             | 88       | 73       | ..            | 69       | 67             | 59   |
| All ages       | 1,198          | 1,174    | 1,151    | ..            | 1,144    | 686            | 689  |
| <b>Females</b> |                |          |          |               |          |                |      |
| Under 18       | 72             | 79       | 81       | ..            | 69       | 13             | 6    |
| All ages       | 395            | 415      | 369      | ..            | 396      | 129            | 134  |
| <b>Total</b>   |                |          |          |               |          |                |      |
| Under 18       | 157            | 167      | 154      | ..            | 138      | 80             | 65   |
| All ages       | 1,593(f)       | 1,589(f) | 1,520(f) | ..            | 1,540(f) | 815            | 823  |

(iii) Total employees

|                | Number         |          |          |               |          |                |       |
|----------------|----------------|----------|----------|---------------|----------|----------------|-------|
|                | United Kingdom |          |          | Great Britain |          | United Kingdom |       |
|                | 1951           | 1950     | 1949     | 1949(c)       | 1948     | 1937           | 1935  |
| <b>Males</b>   |                |          |          |               |          |                |       |
| Under 18       | 217            | 194      | 184      | ..            | 205      | 237            | 207   |
| All ages       | 5,754          | 5,564    | 5,506    | ..            | 5,578    | 4,135          | 3,856 |
| <b>Females</b> |                |          |          |               |          |                |       |
| Under 18       | 87             | 97       | 96       | ..            | 83       | 30             | 12    |
| All ages       | 535            | 540      | 478      | ..            | 541      | 201            | 201   |
| <b>Total</b>   |                |          |          |               |          |                |       |
| Under 18       | 304            | 291      | 280      | ..            | 288      | 267            | 219   |
| All ages       | 6,289(f)       | 6,104(f) | 5,984(f) | ..            | 6,119(f) | 4,336          | 4,057 |

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers):-

Canteen workers 4 Males 58 Females  
Other workers 91 Males and females

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

(e) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, October 16, 1937, and October 12, 1935.

(f) Working proprietors. In addition working proprietors, shown in Table 13(iv) below, were engaged in this trade in larger establishments. The 1937 and 1935 figures include working proprietors.

(iv) Working proprietors

|                | Number         |      |      |               |      |
|----------------|----------------|------|------|---------------|------|
|                | United Kingdom |      |      | Great Britain |      |
|                | 1951           | 1950 | 1949 | 1949          | 1948 |
| <b>Males</b>   | 2              | 2    | 2    | ..            | 3    |
| <b>Females</b> | -              | -    | -    | ..            | -    |
| <b>Total</b>   | 2              | 2    | 2    | ..            | 3    |

TABLE 14

Average employment  
Larger establishments (a)

|  | Number         |       |       |               |          |                |        |
|--|----------------|-------|-------|---------------|----------|----------------|--------|
|  | United Kingdom |       |       | Great Britain |          | United Kingdom |        |
|  | 1951           | 1950  | 1949  | 1949(b)       | 1948     | 1937           | 1935   |
| <b>Operatives</b>                                | 4,584          | 4,431 | 4,501 | ..            | 4,579    | 3,521          | 3,234  |
| Administrative, technical and clerical employees | 1,571          | 1,550 | 1,505 | ..            | 1,540(c) | 815(c)         | 823(c) |
| <b>Total</b>                                     | 6,155          | 5,981 | 6,006 | ..            | 6,119    | 4,336          | 4,057  |

(a) For employment in small firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(c) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include working proprietors.

Outworkers. No outworkers were recorded in this trade.

Shift working, 1951 (a)

Larger establishments in Great Britain

TABLE 15

|   | Total number of man-shifts worked in the week | Total number of shift-hours worked in the week | Number of returns showing the systems stated |
|---|---|--|--|
| Continuous 3 shift systems per 24 hours averaging 8 hours per shift | 6,233   | 49,612   | 30   |
| Continuous 4 shift systems per 24 hours averaging 6 hours per shift | -   | -  | -  |
| All 2 shift systems   | 180   | 2,160  | 2  |
| Other shift systems   | -   | -  | -  |
| <b>Total</b>  | 6,413   | 51,772   | (b)  |

(a) Shift working during week ended September 22, 1951.

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

|   | Returns        |                    | Operatives     |                                     |                               |
|---|----------------|--------------------|----------------|-------------------------------------|-------------------------------|
|   | Total in trade | Showing shift-work | Total in trade | Total on returns showing shift-work | Number employed on shift-work |
| Number  | 100.0          | 31                 | 100.0          | 4,456                               | 1,138                         |
| Percentage of total in trade                      |                | 76.0(c)            |                | 96.0(c)                             | 24.0(c)                       |
| Percentage of total on returns showing shift-work |                |                    |                | 100.0                               | 25.5                          |

(c) Rounded to avoid disclosure.

Wages and salaries and employers' National Insurance  
contributions paid during the year  
Larger establishments

|  | United Kingdom |       |       | Great Britain |       |
|--|----------------|-------|-------|---------------|-------|
|  | 1951           | 1950  | 1949  | 1949(a)       | 1948  |
| Wages and salaries (b) of                                  |                |       |       |               |       |
| Operatives   | 1,746          | 1,542 | 1,526 | ..            | 1,464 |
| Administrative, technical and clerical employees           | 745            | 706   | 650   | ..            | 651   |
| Total  | 2,491          | 2,249 | 2,176 | ..            | 2,114 |
| Employers' contributions to all National Insurance Schemes | 65             | 63    | 63    | ..            | 47    |

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(b) Including bonus and commission payments.

Plant, machinery and vehicles - acquisitions and disposals,  
and capital expenditure on new building work

Larger establishments

|   | United Kingdom |      | Great Britain |      |
|---|----------------|------|---------------|------|
|   | 1951           | 1949 | 1949(a)       | 1948 |
| Plant, machinery and vehicles   |                |      |               |      |
| Acquisitions  |                |      |               |      |
| Plant and machinery   |                |      |               |      |
| New   | 916            | 608  | ..            | 527  |
| Second-hand   | 16             | 20   | ..            | 8    |
| Vehicles  |                |      |               |      |
| New   | 73             | 32   | ..            | 46   |
| Second-hand   | 10             | 13   | ..            | 10   |
| Total acquisitions  | 1,016          | 674  | ..            | 592  |
| Disposals   |                |      |               |      |
| Plant and machinery   | 17             | 13   | ..            | 27   |
| Vehicles  | 5              | 2    | ..            | 4    |
| Total disposals   | 22             | 15   | ..            | 31   |
| New building work   |                |      |               |      |
| Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges) | 151            | 179  | ..            | 155  |

(a) Owing to the risk of disclosure of information relating to individual firms in Northern Ireland separate particulars for Great Britain cannot be given.

(93838/3)

1951

Summary

Larger establishments

TABLE 18

|  | England (a) | Wales (a) | Scotland (b) | Great Britain | Northern Ireland(b) | United Kingdom |
|--|-------------|-----------|--------------|---------------|---------------------|----------------|
|  | £'000       | £'000     | £'000        | £'000         | £'000               | £'000          |
| Gross output (production)                      | 21,458      | ..        | 1,920        | ..            | ..                  | 23,378         |
| Cost of materials and fuel used                | 14,937      | ..        | 1,470        | ..            | ..                  | 16,407         |
| Payment for work done on materials given out   | 55          | ..        | -            | 55            | -                   | 55             |
| Transport payments                             | 1,050       | ..        | 68           | ..            | ..                  | 1,117          |
| Net output                                     | 5,417       | ..        | 382          | ..            | ..                  | 5,799          |
| Wages and salaries of persons employed         | 2,318       | ..        | 173          | ..            | ..                  | 2,491          |
| Average number of persons employed (c)         | No. 5,745   | No. ..    | No. 412      | No. ..        | No. ..              | No. 6,157      |
| Net output per person employed (c)             | £ 943       | £ ..      | £ 927        | £ ..          | £ ..                | £ 942          |
| Stocks at end of year                          | £'000       | £'000     | £'000        | £'000         | £'000               | £'000          |
| Products on hand for sale and work in progress | 1,696       | ..        | 154          | ..            | ..                  | 1,850          |
| Materials and fuel                             | 1,367       | ..        | 111          | ..            | ..                  | 1,478          |
| Number of establishments                       | No. 63      | No. ..    | No. 10       | No. ..        | No. ..              | No. 73         |

The values of gross output and of materials and fuel used are derived in the following way:-

|   | £'000  | £'000 | £'000 | £'000 | £'000 | £'000  |
|---|--------|-------|-------|-------|-------|--------|
| Output of firms in this trade                         |        |       |       |       |       |        |
| Total value of sales (see Table 20)                   | 21,149 | ..    | 1,925 | ..    | ..    | 23,074 |
| Changes in stocks and work in progress (see Table 21) | + 310  | ..    | - 5   | ..    | ..    | + 304  |
| Gross output (production)                             | 21,458 | ..    | 1,920 | ..    | ..    | 23,378 |
| Materials and fuel used by firms in this trade        |        |       |       |       |       |        |
| Purchases   | 15,295 | ..    | 1,497 | ..    | ..    | 16,792 |
| Changes in stocks (see Table 21)                      | - 358  | ..    | - 27  | ..    | ..    | - 385  |
| Materials and fuel used                               | 14,937 | ..    | 1,470 | ..    | ..    | 16,407 |

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Wales cannot be given separately and have been included with those for England.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

(c) Including working proprietors.

Summary

Small firms in Great Britain (a)

TABLE 19

|  | England | Wales | Scotland | Great Britain |
|--|---------|-------|----------|---------------|
| Number of returns                      | 9       | (b)   | (b)      | 13            |
| Average number of persons employed (c) |         |       |          |               |
| Males                                  | 39      | (b)   | (b)      | 61            |
| Females                                | 9       | (b)   | (b)      | 11            |
| Total                                  | 48      | (b)   | (b)      | 72            |

(a) Small firms in Great Britain employing on the average ten or fewer persons.

(b) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given.

(c) Including working proprietors.

(93838/3)

Sales in the trade  
Larger establishments

TABLE 20

|  | England and Wales |       | Scotland  |        | Great Britain |       | Northern Ireland |       | United Kingdom |       |
|--|-------------------|-------|-----------|--------|---------------|-------|------------------|-------|----------------|-------|
|  | Quantity          | Value | Quantity  | Value  | Quantity      | Value | Quantity         | Value | Quantity       | Value |
|  | Th.galls          | £'000 | Th.galls. | £'000  | Th.galls.     | £'000 |                  | £'000 | Th.galls.      | £'000 |
| Principal products   |                   |       |           |        |               |       |                  |       |                |       |
| Benzole, crude (including light oils distilling not less than 90 per cent. at 200°C)                       | 680               | 59    | -         | -      | 680           | 59    | -                | -     | 680            | 59    |
| Benzole products (including products from benzole derived from gas)  |                   |       |           |        |               |       |                  |       |                |       |
| Benzole, refined (in terms of motor benzole)   | ..                | (a)   | ..        | (a)    | ..            | ..    | ..               | (a)   | 19,924         | 2,416 |
| Toluoles, refined (in terms of 90's toluole)   | ..                | (a)   | ..        | (a)    | 3,278         | 540   | -                | -     | 3,278          | 540   |
| Xyloles, refined (in terms of 3/5° xylole)   | ..                | (a)   | ..        | (a)    | 2,005         | 402   | -                | -     | 2,005          | 402   |
| Solvent naphtha (in terms of 90/160 grade)   | ..                | (a)   | ..        | (a)    | 2,905         | 462   | -                | -     | 2,905          | 462   |
| Heavy naphtha (in terms of 90/190 grade)   | ..                | (a)   | ..        | (a)    | 2,949         | 366   | -                | -     | 2,949          | 366   |
| Creosote oils (including anthracene oil)   | 74,304            | 3,262 | 8,649     | 420(b) | ..            | ..    | ..               | (b)   | 82,952         | 3,682 |
|  |                   |       |           |        | Th. tons      |       |                  |       | Th. tons       |       |
| Creosote/pitch mixtures (made for use as fuel)   | ..                | (a)   | ..        | (a)    | 397.9         | 2,533 | -                | -     | 397.9          | 2,533 |
| Naphthalene (all grades, in terms of 66°C salts)   | ..                | (a)   | ..        | (a)    | 29.5          | 735   | -                | -     | 29.5           | 735   |
| Pitch  | ..                | (a)   | ..        | (a)    | 373.6         | 2,290 | -                | -     | 373.6          | 2,290 |
|  |                   |       |           |        | Th.galls      |       |                  |       | Th.galls.      |       |
| Tar bases  | ..                | (a)   | ..        | (a)    | 264           | 311   | -                | -     | 264            | 311   |
|  | Th. tons          |       | Th. tons  |        |               |       |                  |       | Th. tons       |       |
| Tar, refined (including mixtures containing not more than 10 per cent. of bitumen or other added material) | 393.7             | 2,680 | 76.8      | 638(b) | ..            | ..    | ..               | (b)   | 470.5          | 3,318 |
| Tar acids  |                   |       |           |        |               |       |                  |       | Th.galls.      |       |
| Crude tar acids  | ..                | (a)   | ..        | (a)    | 5,712         | 1,181 | -                | -     | 5,712          | 1,181 |
| Cresylic acid, refined (all grades)  | ..                | (a)   | ..        | (a)    | ..            | ..    | ..               | (a)   | 4,937          | 1,638 |

CHEMICALS AND ALLIED TRADES COUNTRY TABLES

|   |          |        |    |          |           |      |     |    |     |           |     |        |
|---|----------|--------|----|----------|-----------|------|-----|----|-----|-----------|-----|--------|
| Phenol mixtures containing not less than 80 per cent. of phenol (equivalent crystal phenol content) | ..       | (a)    | .. | (a)      | Th. tons  | 2.4  | 303 | -  | -   | Th. tons  | 2.4 | 303    |
| Other tar acids, including phenol crystals and liquefied phenol (equivalent crystal phenol content) | ..       | (a)    | .. | (a)      | Th.galls. | 694  | 202 | -  | -   | Th.galls. | 694 | 202    |
| Other coal tar products (except dyes and dyestuffs)   | ..       | 585    | .. | 25       | ..        | 611  | -   | -  | ..  | 611       | ..  | 611    |
| Waste products  | -        | -      | .. | 17       | ..        | 17   | -   | -  | ..  | 17        | ..  | 17     |
| Work done for the trade or on commission (c)  |          | 75     |    | -        |           | 75   |     | -  |     | 75        |     | 75     |
| Total principal products  |          | (a)    |    | (a)      |           | ..   |     |    | (a) |           |     | 21,729 |
| Other output  |          |        |    |          |           |      |     |    |     |           |     |        |
| Disinfectants, antiseptics, insecticides, weed-killers, sheep and cattle dips, and like products    |          |        |    |          |           |      |     |    |     |           |     |        |
| Coal tar disinfectants, antiseptics, and sheep and cattle dips and dressings                        | ..       | 127    | -  | -        | ..        | 127  | -   | -  | ..  | 127       | -   | 127    |
| Other   | ..       | 84     | -  | -        | ..        | 84   | -   | -  | ..  | 84        | -   | 84     |
| Ammonia liquor and other chemical products  | ..       | 407    | -  | -        | ..        | 407  | -   | -  | ..  | 407       | -   | 407    |
| Manufactured bituminous products  |          |        |    |          |           |      |     |    |     |           |     |        |
| Bituminous emulsions (except emulsions for use as paint)  | Th.cwts. | 32.0   | 25 | 76.9     | 52(b)     | ..   | ..  | .. | (b) | 108.9     | 77  | 77     |
| Other   | ..       | (a)    | .. | (a)      | Th.cwts.  | 31.8 | 54  | -  | -   | 31.8      | 54  | 54     |
| Other goods   | ..       | 473    | -  | -        | ..        | 473  | -   | -  | ..  | 473       | -   | 473    |
| Total   |          | 21,149 |    | 1,925(b) |           | ..   |     |    | (b) |           |     | 23,074 |

- (a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.  
 (b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.  
 (c) Amount charged.

COAL TAR PRODUCTS COUNTRY TABLES



Stocks of products on hand for sale and work in progress,  
and stocks of materials and fuel

Larger establishments

TABLE 21

£'000

|  |                        | England and Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|--|------------------------|-------------------|----------|---------------|------------------|----------------|
| Products on hand for sale                            | { at beginning of year | (a)               | (a)      | (a)           | (a)              | 1,271          |
|  | { at end of year       |                   |          |               |                  | 1,590          |
| Work in progress                                     | { at beginning of year | (a)               | (a)      | (a)           | (a)              | 275            |
|  | { at end of year       |                   |          |               |                  | 259            |
| Total products on hand for sale and work in progress | { at beginning of year | 1,386             | 159 (b)  | ..            | (b)              | 1,545          |
|  | { at end of year       |                   |          |               |                  | 1,850          |
| Materials and fuel                                   | { at beginning of year | 1,009             | 84 (b)   | ..            | (b)              | 1,093          |
|  | { at end of year       |                   |          |               |                  | 1,478          |

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

Employment in September

Larger establishments (a)(b)

TABLE 22

(i) Operatives

Number

|          | England and Wales | Scotland (c) | Great Britain | Northern Ireland (c) | United Kingdom |
|----------|-------------------|--------------|---------------|----------------------|----------------|
| Males    |                   |              |               |                      |                |
| Under 18 | 127               | 5            | ..            | ..                   | 132            |
| All ages | 4,241             | 315          | ..            | ..                   | 4,556          |
| Females  |                   |              |               |                      |                |
| Under 18 | 15                | -            | 15            | -                    | 15             |
| All ages | 138               | 2            | ..            | ..                   | 140            |
| Total    |                   |              |               |                      |                |
| Under 18 | 142               | 5            | ..            | ..                   | 147            |
| All ages | 4,379             | 317          | ..            | ..                   | 4,696          |

(ii) Administrative, technical and clerical employees

Number

|              | England and Wales | Scotland (c) | Great Britain | Northern Ireland (c) | United Kingdom |
|--------------|-------------------|--------------|---------------|----------------------|----------------|
| Males        |                   |              |               |                      |                |
| Under 18     | 74                | 11           | ..            | ..                   | 85             |
| All ages     | 1,109             | 89           | ..            | ..                   | 1,198          |
| Females      |                   |              |               |                      |                |
| Under 18     | 71                | 1            | ..            | ..                   | 72             |
| All ages     | 361               | 34           | ..            | ..                   | 395            |
| Total        |                   |              |               |                      |                |
| Under 18     | 145               | 12           | ..            | ..                   | 157            |
| All ages (d) | 1,470             | 123          | ..            | ..                   | 1,593          |

TABLE 22 (contd.)

(iii) Total employees

Number

|              | England and Wales | Scotland (c) | Great Britain | Northern Ireland (c) | United Kingdom |
|--------------|-------------------|--------------|---------------|----------------------|----------------|
| Males        |                   |              |               |                      |                |
| Under 18     | 201               | 16           | ..            | ..                   | 217            |
| All ages     | 5,350             | 404          | ..            | ..                   | 5,754          |
| Females      |                   |              |               |                      |                |
| Under 18     | 86                | 1            | ..            | ..                   | 87             |
| All ages     | 499               | 36           | ..            | ..                   | 535            |
| Total        |                   |              |               |                      |                |
| Under 18     | 287               | 17           | ..            | ..                   | 304            |
| All ages (d) | 5,849             | 440          | ..            | ..                   | 6,289          |

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(iv) below.

(b) Number employed in the week ended September 22, 1951.

(c) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

(d) Working proprietors. In addition 2 male working proprietors were engaged in this trade in larger establishments.

(iv) Excluded employees

Number

|                          | England and Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|--------------------------|-------------------|----------|---------------|------------------|----------------|
| Canteen workers          |                   |          |               |                  |                |
| Males                    | 4                 | -        | 4             | -                | 4              |
| Females                  | (e)               | (e)      | 58            | -                | 58             |
| Total                    | (e)               | (e)      | 62            | -                | 62             |
| Other workers            |                   |          |               |                  |                |
| Males                    | (e)               | -        | ..            | -                | (e)            |
| Females                  | (e)               | -        | ..            | -                | (e)            |
| Total                    | 91                | -        | 91            | -                | 91             |
| Total excluded employees | (e)               | (e)      | 153           | -                | 153            |

(e) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Average employment

Larger establishments (a)

TABLE 23

Number

|  | England and Wales | Scotland (b) | Great Britain | Northern Ireland (b) | United Kingdom |
|--|-------------------|--------------|---------------|----------------------|----------------|
| Operatives                                       | 4,292             | 292          | ..            | ..                   | 4,584          |
| Administrative, technical and clerical employees | 1,453             | 118          | ..            | ..                   | 1,571          |
| Total  | 5,745             | 410          | ..            | ..                   | 6,155          |

(a) For employment in small firms (employing on the average ten or fewer persons) see Table 19.

(b) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

Outworkers. No outworkers were employed in this trade.

## Wages and salaries and employers' National Insurance contributions paid during the year

## Larger establishments

|  | England and Wales | Scotland (a) | Great Britain | Northern Ireland (a) | United Kingdom |
|--|-------------------|--------------|---------------|----------------------|----------------|
| Wages and salaries (b) of                                  |                   |              |               |                      |                |
| Operatives   | 1,632             | 114          | ..            | ..                   | 1,746          |
| Administrative, technical and clerical employees           | 687               | 59           | ..            | ..                   | 745            |
| Total  | 2,318             | 173          | ..            | ..                   | 2,491          |
| Employers' contributions to all National Insurance Schemes | 61                | 4            | ..            | ..                   | 65             |

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

(b) Including bonus and commission payments.

## Plant, machinery and vehicles - acquisitions and disposals, and capital expenditure on new building work

## Larger establishments

|   | England and Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|---|-------------------|----------|---------------|------------------|----------------|
| Plant, machinery and vehicles   |                   |          |               |                  |                |
| Acquisitions  |                   |          |               |                  |                |
| Plant and machinery   |                   |          |               |                  |                |
| New   | 843               | 74(a)    | ..            | (a)              | 916            |
| Second-hand   | 16                |          |               |                  |                |
| Vehicles  |                   |          |               |                  |                |
| New   | 59                | 14(a)    | ..            | (a)              | 73             |
| Second-hand   | 6                 | 4(a)     | ..            | (a)              | 10             |
| Total acquisitions  | 924               | 92(a)    | ..            | (a)              | 1,016          |
| Disposals   |                   |          |               |                  |                |
| Plant and machinery   | (b)               | -        | ..            | (b)              | 17             |
| Vehicles  | (b)               | -        | ..            | (b)              | 5              |
| Total disposals   | (b)               | -        | ..            | (b)              | 22             |
| New building work   |                   |          |               |                  |                |
| Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges) | 145               | 6(a)     | ..            | (a)              | 151            |

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

(b) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

## Payments for transport services for finished goods sold and materials and fuel purchased

## Larger establishments

|  | England and Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|--|-------------------|----------|---------------|------------------|----------------|
| Amounts paid to other firms and undertakings                           | 868               | 68(a)    | ..            | (a)              | 936            |
| Amount paid or credited to firms' own separate transport organisations | 181               | -        | 181           | -                | 181            |
| Total  | 1,050             | 68(a)    | ..            | (a)              | 1,117          |

(a) Owing to the risk of disclosure of information relating to individual firms, particulars for Northern Ireland cannot be given separately and have been included with those for Scotland.

## GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

**Trade classification:** Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

**The establishment:** The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

**Larger establishments and small firms:** Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

**Working proprietors** are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

**Persons employed:** Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

**Outworkers,** who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

**Wages and salaries** include all overtime payments, bonuses, and commissions, without any deduction for income tax, insurance, contributory pensions, etc. They exclude payments to working proprietors.

**Capital expenditure:** Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

**Materials and fuel:** The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by

their own work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

**Stocks and work in progress:** Firms were instructed to give these at income tax value.

**Output:** Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. For all post-war censuses the value of sales was the net selling value, that is, the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Gross output** of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met as well as depreciation and profits.

**Customs and Excise Duty** paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

**Later reports:** Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

**Disclosure of information:** The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

**Symbols used:** '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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