## 35 Dyestuffs and pigments

This Report on the Dyestuffs and Pigments Industry relates to establishments engaged wholly or mainly in manufacturing synthetic dyestuffs, including dyestuffs intermediates, vegetable dyes and tanning extracts, pigment dyestuffs and lakes and inorganic pigment colours. Confectioners' colours are excluded.

This industry corresponds to minimum list heading 277 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census.

The industry corresponds to the Dyestuffs Industry (Part 25) and the Pigments sub-division of the General Chemicals Industry (Part 27) in the Reports on the last detailed Census of Production for 1963.

Throughout this Report the figures given for 1963 have been reclassified, as far as possible according to the Standard Industrial Classification (Revised 1968) so that data for 1963 and 1968 are on the same industrial basis. However the reclassification of small firms, which provided limited information only, has been arbitrary.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

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(c) Including services rendered to other organisations (amounts charged for hiring out plant
machinery or other goods, for providing rendered).
(d) Amini
(e) Excludirative, Lechnical and clerical employees.
(f) Acquisitions enditure for establishments not yet in production

BLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 2 per cent. of the total figures in which they were incorporated in of th
A similar situation existed in 1963 .
(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

| Number of establishments | 1963 | 1968 |
| :--- | ---: | ---: |
| Average number employed: | 43 | 43 |
| Working proprietors | 51 | 35 |
|  | 354 | 429 | Working proprietors

other persons employed
354
429

[^0]TABLE 2 Analysis by size of establishment within the industry, 1968
(i) Output and employment

All establishments: United Kingdom

| Number employed on average during the year by the est abl ${ }^{2}$ shent est abl i shment (a) | Est ab-lishmen'ts | Enter- prises (b) | Total number employed on average during the year (a) | Gross output output | Net output | Net output per head |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1-5 | Number <br> 13 | Number <br> 13 | Number $47$ | £ 000 $\ldots$ | £ 000 . | £ |
| 6-10 | 6 | 6 | 53 | . | . |  |
| 11-24 | 20 | 18 | 338 | .. | .. | . |
| 25-49 | 8 | 8 | 309 | 1,869 | 648 | 2,096 |
| 50-99 | 10 | 9 | 693 | 6,092 | 1,973 | 2,847 |
| 100-199 | 9 | 7 | 1,360 | 8,271 | 3,582 | 2,634 |
| 200-299 | 4 | 4 | 884 | 7,280 | 2,609 | 2,951 |
| 300-749 | 3 | 3 | 1,308 | 10,578 | 5,168 | 3,951 |
| 750-999 | 3 | 3 | 2,711 | 17,409 | 8,383 | 3,092 |
| 1,000 and over | 5 | 4 | 14,651 | 90,544 | 47,015 | 3,209 |
| Unsatisfactory returns | 5 | 4 | 26 | .. | , | , |
| Total | 86 | 71 | 22,380 | 144,982(c) | 70,830(c) | 3,165 (c) |

(ii) Employees, wages and sal aries

All establishments: United Kingdom

| Number employed on average during the year by the est abl i shment (a) | Enployees |  | Wages and sal aries |  | Wages and sal aries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Openatives | 0 thers (d) | Operatives | 0thers (d) | Operatives | 0 thers (d) |
| 1-5 | Number | Number | £'000 | $£^{\prime} 000$ | £ | £ |
| 6-10 | .. | .. | .. |  |  |  |
| 11-24 | . | .. | .. | .. | .. |  |
| 25-49 | 186 | 120 | 155 | 166 | 836 | 1,381 |
| 50-99 | 488 | 205 | 429 | 262 | 879 | 1,277 |
| 100-199 | 881 | 476 | 857 | 628 | 973 | 1,319 |
| 200-299 | 537 | 347 | 475 | 488 | 885 | 1,405 |
| 300-749 | 719 | 589 | 833 | 898 | 1,159 | 1,525 |
| 750-999 | 1,663 | 1,048 | 1,814 | 1,450 | 1,091 | 1,384 |
| 1,000 and over | 8,106 | 6,544 | 9,726 | 10,335 | 1,200 | 1,579 |
| Unsatisfactory returns | .. | . |  | - | 1,200 | 1,570 |
| Total | 12,830 (c) | 9,509(c) | 14,570(c) | 14,500 (c) | 1,136 (c) | 1,525 (c) |

(a) Including working proprietors.
(b) The sum of the figures for the size groups exceeds the total for the industry to size group.
(c) Including estimates for establishments employing fewer than 25 persons and for (d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)
All establishments: United Kingdom

| All establ ishments: United Kingdom |  |  |  |
| :--- | :---: | :---: | :---: |
| Ages | Males | Fenales | All employees |
| Under 18 | Per cent. | Per cent. | Per cent. |
|  | 1 | 1 | 2 |
|  | 83 | 15 | 98 |
|  | 84 | 16 | 100 |

Source: Department of Employment

The percentages rel ate to the numbers employed (excluding working proprietors) at June 1969, the earliest date for
which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

## Footnotes to Table 4.

(a) Some establishments employing fewer than 25 persons were included in returns for larger establ ishments. The
amounted to 2 establ ishments in 1968 and 3 in 1963 .
amounted to 2 establishments in 1968 and 3 in 1963 .
(b) The method of classifying returns to sub-divisions of the industry is explained in the notes; the characteristic products of each sub-dice to other organisations (amounts
(c) Including services rendered to other organisather goods, charged for hiring out plant, machichical or other services rendered).
(d) Characteristic products relate only to sub-divisions of the
industry.
(e) For sub-divisions of the industry, this is the ratio of sales of characteristic products to totas sales of good
produced and work done. For the industry as a whole, this is the rat io of total sales of principal products by the industry to total sales of goods produced and
(f) Administrative, technical and clerical employees.
(g) Excluding expenditure for establishments not yet in
duct ion.
(h) Acquisitions less disposals.

TABLE 4 Analysis of larger establishments, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

 TABLE 5 Sales of principal products of the to other industries, 1963 and 1968 Establishments employing 25 or more persons:


Cont inued on next page

TABLE 5 (continued)

|  |  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quant ity | Value | Quantity | Value | Enter- prises | Entries |
| 02 | Pigments (whether used for colouring or not) (continued) <br> Titanium dioxide <br> White lead, dry and ground (including ground in oils in terms of dry content) <br> Zinc oxide | Th.tons | £’000 | Th,tons | $£^{\prime} 000$ | Number | Number |
|  |  | 125 | 20,378 | 148 | 25,937 | * | * |
|  |  | $7.5$ | $726$ | . | 781 | * | * |
|  |  | 40.2 | 2,821 | 33.0 | 3,266 | 6 | 8 |
|  | Total pigments |  | 40,060 |  | 51,752 | . | . |
|  | Other products | . | 1,240 | . | 101 | * | * |
|  | Waste products | .. | 151 | . | 384 | 12 | 15 |
|  | Mork done |  | 30 |  | 55 | 6 | 7 |
|  | Total |  | 82,818 |  | 104,071 | .. | .. |
|  | Sales in other industries (see Table 6) |  | 6,357 |  | 5,387 | .. |  |
|  | Principal products of this industry sold by establishments in the industry |  | $76,461$ |  | $98,684$ | 32 | $38(\mathrm{j})$ |

(a) The number given is that of the sub-division of which the item is a charactoristic product. The
sales shown are total sales by larger establishments, not merely sales by establishments classified to the sub-division.
(b) For 1963 fluorescent brightening agents were not specifically included
(c) In terms of domest ic standard powder strength.
(d) In terms of 100 per cent, pure dye content.
(e) In terms of domest ic standard powder strength, except for alizarine red which is in terms of For per cent. pure dye content.
(g) In terms of standard chrome and mordant (including alizarine).
(h) For 1963 described weight.
(i) For 1963 includes unclassified dyes and optical bleaches (optical whitening agents)
(i) For 1963 includes unclassified.

Thich is less than the total number number of returns made for larger establishments in this industry returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968
Establishments employing 25 or more persons:
Analys is of returns received, United Kingdom

(a) The references given are to the list of industries at the front of this report

TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968
Est abl ishments employing 25 or more persons:

|  | 1963 | 1968 |
| :---: | :---: | :---: |
|  | Value | Value |
|  | £'000 | £'000 |
| Inorganic chemicals | 2,509 | 2,027 |
| Mixtures of inorganic and organic chemicals | 8,397 | 10,809 |
| Miscellaneous chemical products | 1,729 | 895 |
| Other goods | 11,591 | 15,466 |
| Services rendered to other organisations (a) | 595 | 568 |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | 7,188 | 10,070 |
| Canteen takings | 393 | 390 |
| Total | 32,402 | 40,225 |

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

TABLE $8 \quad \begin{aligned} & \text { Production of certain principal products of the industry by larger } \\ & \text { establishments, } 1963 \text { and } 1968\end{aligned}$

This table is not applicable to this industry.

TABLE $9 \begin{aligned} & \text { Purchases by larger establishments of selected principal products } \\ & \text { of the industry, } 1968\end{aligned}$

This table is not applicable to this industry

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968 Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

TABLE 10 (cont inued)


Surface active materials (other than washing or
scouring preparations) including wetting and scouring preparations) including wetting and or emulsifying agents, sulphonated or sulphated oils,
alcohols and hydrocarbons (i)
Bleaching materials, including bleaching powder,
hydrosulphites, hydrochlorites, hydrogen peroxide), peroxy salts and compounded bleaching agents
Other

Dyestuffs (for blending or other further processing) Pigments for blending or other further processing
(except for natural iron oxides and earth colours)

Paint and varnish (including lacquers and stains)

Lubricating oils and greases

Replacement parts for firms, own machinery, plant and vehicles, and accessor ies and consumable tools bought replacement
Tyres and other spare parts for firms, own road
Other
All other materials for use in production
Packaging materials
Metal barrels, kegs and drums
Containers wholly or mainly of wood (including plywood boxes and drums), baskets and wickerwork crates
Plastic moulded and fabricated containers (including closures and inserts) with a capacity exceeding 1 gallon All other packaging materials
Fuel and electricity (j)
Coal
Coke (including screenings) and manufactured fuel Derv fuel and motor spirit for use in road vehicles

0ther liquid fuels (including creosote/pitch mixtures,
etc and liquefied petroleum gases) etc and liquefied petroleum gases)

## Gas

Electricity


TABLE 10 (cont inued)

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Fuel and electricity (j) (cont inued) |  | $£^{\prime} 000$ |  | $£^{\prime} 000$ |
| All ot her fuels | .. |  | . | 20 |
| Total cost of materials and fuel |  | 51,112 |  | 62,732 |
| Goods purchased for merchanting |  | 5,602 |  | 8,451 |
| Canteen purchases |  | 337 |  | 380 |
| Total cost of purchases |  | 57,051 |  | 71,563 |

(a) For 1963 described as 'Vegetable and seed oils,
(b) Included with 'All other materials for use in production' for 1963.
(c) For 1963 described as 'Heavy chemicals (acids, alkalis, alcohols, other inorganic and organic chemicals, compressed gases, etc).
(d) For 1963 described as 'Ammonia (liquor and anhydrous)'
(e) For 1963 described as 'Organic acids' only
(f) For 1963 described as 'Alcohols (including methylated spirits but excluding sulphonated or sulphated alcohols)
(g) For 1963 described as 'Benzole refined (all grades)'
(h) For 1963 described as 'Naphthalene' only.
(i) For 1963 described as 'Surface-active material (including sulphonated or sulphated alcohols and oils, quaternary ammonium compounds, etc)'
(j) The total quant ity of electricity generated in establishments employing 25 or more persons in
this industry was 192,549 Th.kWh in 1963 and $190,016 \mathrm{Th}$. kWh in 1968 .
(k) Not recorded separately for 1963 .

TABLE 11 Transport costs and employment of larger Transport costs and employment
establishments, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | Unit | 1963 | 1968 |
| :---: | :---: | :---: | :---: |
| Average number mainly employed on transport | No. | 101 | 127 |
| Transport costs |  |  |  |
| Wages and salaries | £'000 | 81 | 150 |
| Derv fuel and motor spirit | " | 58 | 97 |
| Tyres and other spare parts for road goods vehicles | " |  | 30 |
| Payments to other organisations for transport $\quad\left\{\begin{array}{l}\text { by road } \\ \text { by rail and other } \\ \text { means excluding } \\ \text { postal services }\end{array}\right.$ | " | 1,663 | 2,085 126 |
| Costs of operating road goods vehicles Insurance | " | 7 | 6 |
| Vehicle licences | " | 6 | 11 |
| Depreciation | " | 51 | 37 |
| Payments to other organisations for repairs and maintenance | " | 26 | 23 |
| Total | " | 1,892(a) | 2,565 |

[^1]TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons: Analysis of returns received, United Kingdom

|  | Amounts payable |  |
| :--- | ---: | ---: |
|  | 1963 | 1968 |
| Repairs and maintenance to | $£, 000$ | $£, 000$ |
| Buildings | 308 | 297 |
| Road goods vehicles | 26 | 23 |
| Plant, machinery and other capital equipment | 1,130 | 1,882 |
| Insurance, licensing and depreciation of road goods | 64 | 54 |
| vehicles (b) | 726 | 1,171 |
| Rates, excluding water rates | 96 | 313 |
| Hire of plant and machinery | 235 | 399 |
| Postage, telephone, telegrams, cables and telex (c) | 2,586 | 4,139 |

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.
(b) For details see Table 11 .
(c) Excluding telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968

Establishments employing 25 or more persons. Analysis of returns received, United Kingdom

| Year ended | Percentage <br> oftotal returns <br> received | Percent age <br> of otal number <br> employed |
| :--- | :---: | :---: |
| April (a) 1968 | Per cent. | Per cent. |
| May | 0.0 | 0.0 |
| June | 0.0 | 0.0 |
| July | 2.6 | 0.2 |
| August | 0.0 | 0.0 |
| September | 0.0 | 0.0 |
| 0ctober | 5.3 | 0.0 |
| November | 5.3 | 5.6 |
| December | 57.9 | 0.9 |
| 1969 | 0.0 | 80.8 |
| January | 0.0 | 0.0 |
| February | 28.9 | 0.0 |
| March | 100 | 12.5 |
| April (b) | 0.0 |  |

(a) From 6 April.
(b) To 5 April.


[^0]:    Footnotes cont inued on page $35 / 2$

[^1]:    (a) Excluding tyres and other spare parts for road goods vehicles

