# The Report on the <br> Census of Production for 1954 

Volume 10: Industry F
PAPER AND BOARD


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)

## The Report on the Census of Production for 1954

VOLUME 10, INDUSTRY F
PAPER AND BOARD
THIS REPORT on the Paper and Board Industry relates to establishments engaged wholly or mainly in the manufacture of paper and board and of transparent cellulose wrapping or in the coating of paper

This industry corresponds to minimum list heading 180 in the Standard Industrial Classification.

LIST OF TABLES

| Table No. 1 | Title <br> Industry summary: estimates for the industry as a whole | $\begin{aligned} & \text { Page } \\ & 10 / F / 3 \end{aligned}$ | Table No. 6 | Title <br> Sales of principal products of the industry by estabother industries | $\begin{aligned} & \text { Page } \\ & \text { 10/F/8 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Summary of returns received | 10/F/3 | 7 | Sales in the industiry of other than principal products | 10/F/8 |
| 3 | Analysis by size, 1954 | 10/F/4 | 8 | Total make of intermediate products | 10/F/9 |
| 4 | Anclys is according to specialisation within the industry, 1954 | 10/F/5 | 9 | Purchases of materials and fuel, 1954 | 10/F/9 |
| 5 | Sales of principal products of the industry, includingsales of these products by establishments $\begin{aligned} & \text { classsified } \\ & \text { to other industries }\end{aligned}$ | 10/F/6 | 10 | Average number of employees and wages, salaries and superannuation payments | 10/F/11 |
|  |  |  | 11 | Employment in a specified week | 10/F/11 |

IMPORTANT NOTES and definitions appear on the next page. In inter preting the data in the tables, it is essential to bear these in mind.

The following notes describe terms in general use
The tables of the report. More detailed explanaIn the tables of the report. More detailed explana-
tions of the terms used and $a$ description of the scope and method of taking the census are qiven in the seaper-
ate booklet entitned The heport on the Census of pro-
duction for 1954 . Introductory Notes. (price 1s. 6d. Industrial Classification: Establishments are classif-
ied to industries according to the nature of their out put and. as far as possinie, in conformilain rotur are identified as the principal products of individual
industries, the principal products for a qiven industry
 The
duction. is principle of clasification normally
followed an establishent is clasified to an industry if its output of the principal products of that
industry accounted for a qreater proportion of the value
of its ontput than did its output of the principal products of any other industry. Specialist producers normally comprise those establish-
mentus se per cent. or more of whoe total output by
value is accounted for by the characteristic products of value is accounted for
the specialist group.
Intermediate products: For some industries figures are
given showing the total quantities made during the year


Larger establishments: The information given in the re-
port relates mainly to 1 larger establishments , i.e., establishments of firms employing on the average more
than 10 persons. In most cases an establishment than 10 persons. In most cases an establishment com-
prises the whole of the premises under the same owner-
 other ancillary places of business situated apart from
the producing works are not regarded as enarate estaniishmente and are included in the return for the works. Small firms are those employing on the average 10 or fover persons.
The estimates for the industry as a whole given in
Table 1 are normally obtained by increasing the other
items shown in the same proportion as total employment. Gross output (production) is the total value of goods od by adjusting the value of sales and work done during the year for changes in the value of stocks of products
on hand for sace and work in progress.
Net output is the amount left after deducting from the
value of gross out put the aqgregate of the cost of mat
erimis and fuel used. the amount paid for work given out. and, for 1951 and 1954 any transport payments made.
This represents the value added to mater ialis by the pro-
cess of production, and constitutes the fund from which
 Sales means sales during the year of goods made in the
establishment covered by the return or made on comiss ion for it, whe ther produced in the year or not. The

 cuastomers overseas. firms were required to give the
f....b. value.
Materials and fuel.
Materials and fuel The total cost of materials and
fuel purchased inciudes alo purchases during the year
of materials for use in production, and of fuel (includ-
f materials for use in production, and of fuel (includ-
ing oil. gas and electricity) for all purposes: packing
materiais, including the full cost of returnable cases
when first purchited
 nater chargesi materials for repairs to buildings.
plan and venices when carried out by firms own tork.
people included in their returns: Consumable tools peop incelcides in their returns; consumable tools:
pend parts for machinery purchased as replacements.
and
Purchat and parts for machinery purchased as replacements.
Purchases of goos for merchanting are exeluded. The
cost of materials ford fuel used, qiven in Table 2. is
 obtained by adjusting purcha
year in the value of stocks.
Stocks: Firms were required to give stocks of materials
and fuel . product on hand for sale, and work in pro-
gress and fuel. products on hand
gress. at income tax values.
Customs and Excise Duty paid on materials purchased is
no ramily included in the ost of materials. Finished
oooss are similarly valued as they were sold duty-paid goods are similarly valued as the there sold. duty-paid
or duty-fee. The net anout of any duty paid is de-
ducted in arriving at net output. ducted in arriving at net output.
Employment: Total employment includes morking propriet-
ors. administrative, technical and cir and operatives. but excludes outworkers, canteen employ.
ees and persons ees and persons engaged in merchanting or any an othproy ac-
tivity not covered by a firm's return, why are act

 Horking proprietors are proprietors of businesses othe Horking proprietors are propictors of businesses other
than limited Companies, toge ther with members of the ir
famili ies who worked in the business without receive families who worked in the business without receiving
fixed wages or salaries. Any persons working less than half the normal hours are excluded. For For Northern
Ireland directors of Himited ocmpanies (other than those
paid by fee only) are also included Ireland directors of 1 imited conpanie
paid by fee only) are also included.
Administrative, technical and clerical employees include
diriretors. other than those paid by fee only (except in
 foremen; research, experimental, development, technical
and design employes (other than operatives): draugh B and
men and tracersse travellers; and office (including
works office) employees. Operatives include all other classes 。
broadly speaking, all manual workers.
femployees. i.e.. OUtworkers are persons employed by the firm who work on
materials supplied by the firm in their wown homes. Wages and salaries include all overtime payments, bonus es and commissions in ithuot any overtime payments, bonus-
eduction for incone tax,
insurances. contributory pensions etc. They exclude insurances, contributory pensions etc. They exclude
payments to work ing proprietors. Capital expendi ture includes expenditure on new building
work, and on plant, machinery and vehicles. charged work, and on plant, machinery and vehicles, charged
capita account during the year. including any transport
and installation costs ind capital aceount during the year. including any transport
and installotion costs involved.
ture in includes expect of establishments in Great Britain which ture in respect of establishments in Great Britain whic
had not be gun production be fore the end of the year
(which has not previously been included in the Census of (which has no
Production re ren Symbols used:
for not available
or nil or negligible (less than half the final
digit shown).
Where figures are rounded, e.g. given to the near-
$\varepsilon$ thousand. there may be aparent slight discrepan cies between the sums of constituent items and the tot to the
als shown. In some cases. figures have been coning als shown. In some cases. figures have been combined
nith others of asimilar nature where publication of separatere datails might disclose information relating to
an individual undertaking.

Estimates for the industry as a whole

|  | United Kingdom |  |  | $\begin{aligned} & \text { Scotland } \\ & 1954 \end{aligned}$ | $\begin{aligned} & \text { Wales } \\ & 1954 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £million | £ million | £ million | £ million | £ million |
| Gross output (production) | 131.2 | 305.4 | [274.6] | 44.84 | 5.70 |
| Net output | 44.1 | 105.4 | 103.0 | 17.02 | 1.99 |
| Total stocks and work in progress At beginning of year Change during year | 13.8 $+\quad 3.0$ | $\begin{array}{r}26.6 \\ +\quad 29.2 \\ \hline 9 .\end{array}$ | 36.4 $+\quad 4.6$ | $\begin{array}{r}5.23 \\ +\quad 0.55 \\ \hline\end{array}$ | 0.80 $-\quad 0.19$ |
| Capital expenditure less disposals (a) | 5.1 | 9.1 | 13.1 | 2.12 | 0.13 |
| Wages and salaries | 21.7 | 30.4 | 39.8 | 7.13 | 0.97 |
| Total employment (including working proprietors) | $\begin{gathered} \text { Thousands } \\ 67.0 \end{gathered}$ | Thousands 73.9 | Thousands | Thousands $15.46$ | Thousands <br> 2.06 |

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948 ) that
incurred in Great Britain for establishments not yet in production). less amounts received for plant, Incurred in Great Britain for est
machinery and vehicles disposed

|  | Unit | Specialist producers of |  |  |  |  |  |  |  | Maker $\begin{gathered}\text { Maker } \\ \text { coaters }\end{gathered}$ | $\left\|\begin{array}{c} \text { Caters } \\ \text { only } \end{array}\right\|$ | Rena in-den ofthein-dustry | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A. Transparent cellulose film <br> E. Uncoated printing paper other than newsprint <br> C. Writing paper <br> D. Kraft paper <br> E. Strawpaper and strawboard weighing not more than 901b. to the standard ream <br> F. Other packings and wrappings <br> H. Oiled, waxed and waterp <br> H. Oiled, waxed and waterproof wrappings |  |  |  |  |  |  |  |  |  |  |  |
|  |  | A | B | c | D | E | F | G | H |  |  |  |  |
| Number of estab |  |  | 26 | 19 |  |  | 20 | 44 | 23 |  | 27 | 89 | $\begin{array}{r} 278 \\ 273,318 \end{array}$ |
| Total value of sales and mork done | £'0 | 13.334 | 41.328 | 15 | 23,7 | 3.649 | 7.523 | 39,200 | 13.881 | 8,312 | $\begin{array}{r} 11.803 \\ 9.880 \end{array}$ | 95.438 |  |
| Sales of products |  | 12.8 | 29.561 | 10.331 | 14.746 | 2.982 | 6.515 | 26.205 | 11.764 | 5.076 |  |  |  |
| Products on hand for |  |  | 1.099 |  | 412 |  | 217 |  | 414 | $434$ |  | $\left.0 \begin{array}{rr} 3.933 \\ -\quad 12 \\ \hline & 05 \end{array}\right)$ | $\begin{array}{r} 8.947 \\ +\quad 273 \end{array}$ |
|  | " |  |  | - 15 | 15 | - 10 | + 20 + | + 12 | + 163 | - 93 | 20 |  |  |
| ${ }_{\text {Gross out put (production) }}^{\text {progress }}$ | .. | 13.412 | 41,303 | 14.990 | 23,869 | 3.640 | 7. 543 | 39,324 | 14.044 | 8.219 | 11,823 |  | 273.591 |
| Purchases of materials and fuel |  | $\left.\begin{array}{r} 7.156 \\ 929 \\ +\quad 358 \end{array} \right\rvert\,$ | $\left.\begin{array}{r} 26.950 \\ 4.212 \end{array} \right\rvert\,$ | $\begin{aligned} & 8,816 \\ & 1,201 \end{aligned}$ | $\left.\begin{array}{r} 17.395 \\ 2.880 \end{array} \right\rvert\,$ |  | $\begin{array}{r} 4.407 \\ 825 \end{array}$ | $\begin{array}{r}19.979 \\ 3.718 \\ \hline\end{array}$ | $\begin{aligned} & 9,883 \\ & 1,377 \end{aligned}$ | 4.958775+ | $\begin{array}{r} 7.484 \\ 830 \end{array}$ | 58,66310,373 | 167.73227.349 |
| Stocks of $\quad\left\{\begin{array}{l}\text { at beginning } \\ \text { of year }\end{array}\right.$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| materials and fuel $\quad\left\{\begin{array}{c}\text { change dur- } \\ \text { ing year }\end{array}\right.$ |  |  |  |  | +1.046 | + 13 |  | + 191 | + 407 |  |  | +1,3 | + 4.315 |
| Cost of materials and fuel used |  | 798 | 26.489 | 8.661 | 16,349 | 2,029 | 4,403 | 19,788 | 9.476 | 4,876 | 7.240 |  |  |
| Payment for work done on materials given out Payment for transport |  | 117 | ${ }^{73}$ | 597 | 650 | ${ }_{68}$ | 250 |  |  |  | 293 | $\left\|\begin{array}{r} 57.309 \\ 2.418 \end{array}\right\|$ | $\left\{\begin{array}{l} 163.417 \\ \left\{\begin{array}{c} 313 \\ 7.236 \end{array}\right. \end{array}\right.$ |
| Net output | No. | $\begin{aligned} & 6,496 \\ & 2.955 \\ & 1,142 \end{aligned}$ | $\left\|\begin{array}{c} 14.078 \\ 9.177 \\ 1.103 \end{array}\right\|$ | $\begin{gathered} 5.732 \\ 5.037 \\ 5.033 \end{gathered}$ | $\left\|\begin{array}{c} 6.870 \\ 3.690 \\ 702 \end{array}\right\|$ | $\left\|\begin{array}{r} 1.542 \\ 728 \\ 131 \\ 859 \end{array}\right\|$ | $\begin{aligned} & 2.890 \\ & 2.372 \\ & 317 \\ & 2.689 \end{aligned}$ | $\left.\begin{array}{r} 17.647 \\ 9.679 \\ 1.737 \end{array} \right\rvert\,$ | $\begin{aligned} & 4.356 \\ & 2.575 \\ & \hline 666 \end{aligned}$ | $\begin{aligned} & 3.026 \\ & 2,347 \end{aligned}$ | 4.2903.333594 | 35.698 | 102.62467.31010.73278.155 |
| Average number $\begin{aligned} & \text { operat } \\ & \text { of employees } \\ & \text { others }\end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total employment (a) | .. | 4.097 | 1.369 |  |  |  |  |  | 3. 242 | 2.656 | 3,927 | 28.804 |  |
| employed (a) | $\varepsilon$ | 1,586 |  | $\begin{aligned} & 0.690 \\ & 1,007 \end{aligned}$ |  | 1.795 | 1.075 | $\begin{aligned} & 1.545 \\ & 5.139 \\ & 1.401 \end{aligned}$ | $\begin{aligned} & 1.344 \\ & 1.2366 \\ & 536 \end{aligned}$ | $\begin{aligned} & 1.139 \\ & 1.061 \\ & 1.022 \end{aligned}$ | $\begin{aligned} & 1.092 \\ & 1.378 \\ & 453 \end{aligned}$ | $\left\|\begin{array}{r} 1.239 \\ 11.664 \\ 2.307 \end{array}\right\|$ | 1.31532.1567.500 |
| $\underset{\substack{\text { Wages and } \\ \text { suaries }}}{\left\{\begin{array}{l}\text { of operatives } \\ \text { of others }\end{array}\right.}$ | ${ }^{\text {¢ }} \times 000$ | 1. ${ }_{692}$ | 4. 435 | 2.208 | $\begin{aligned} 2.015 \\ 407 \end{aligned}$ | ${ }_{98}^{429}$ | $\begin{aligned} & 1.098 \\ & 256 \end{aligned}$ |  |  |  |  |  |  |
| Capital expenditure |  |  |  |  | $\begin{gathered} 160 \\ 80 \\ 18 \\ 18 \\ \text { (c) } 2 \end{gathered}$ |  |  | $\begin{array}{r} 864 \\ 2.166 \\ 13 \\ 70 \\ 19 \end{array}$ |  | $\begin{array}{r} 78 \\ 33 \varepsilon \\ 8 \\ 12 \\ 2 \end{array}$ |  |  |  |
|  | ". | $\left.\begin{array}{r} 281 \\ 1,196 \\ 1 \\ 35 \end{array} \right\rvert\,$ | $\begin{array}{r} 236 \\ 1.079 \\ 15 \\ 15 \end{array}$ | $\begin{array}{r} 37 \\ 284 \\ 28 \\ 12 \\ 11 \\ 4 \end{array}$ |  | $\begin{gathered} 10 \\ 133 \\ -23 \\ (c) \end{gathered}$ | $\begin{array}{r\|r\|} 33 \\ 241 \\ 241 \\ 19 \\ 19 \end{array}$ |  | $\begin{array}{r} 79 \\ 233 \\ 10 \\ 27 \\ 2 \end{array}$ |  | r $\begin{array}{r}51 \\ 258 \\ 2 \\ 29 \\ 6\end{array}$ | [r $\begin{array}{r}803 \\ 3.296 \\ 102 \\ 132 \\ 22\end{array}$ | $\begin{array}{r} 2.630 \\ 10.084 \\ 199 \\ 495 \\ 495 \end{array}$ |
| $\underset{\text { machinery }}{ }\left(\begin{array}{l}\text { Plont } \\ \text { disposals ls }\end{array}\right.$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vehicles $\quad\left\{\begin{array}{l}\text { cacquisitions (b) } \\ \text { disposals }\end{array}\right.$ | .. |  |  |  |  |  |  |  |  |  |  |  |  |


|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Vaiue | Quantity | value | Entries |
| Paper, other than coated <br> Machine glazed Th.tons $\varepsilon^{\prime} 000$ Th.tons $\varepsilon^{\prime} 000$ Number |  |  |  |  |  |
|  |  |  |  |  |  |
| Kraft | 46.7 | 6,957 | 72.2 | 6,528 | 23 |
| Imitation kraft | 27.9 | 2.795 | 14.9 | 1.114 | 16 |
| Poster, fully bleached | 13.2 | 2.031 | 11.3 | 1,325 | 13 |
| Pure sulphite, weighing $101 b$. or more to the standard ream | 35.7 | 5.404 | 47.2 | 4,727 | 32 |
| All tissue, sulphite, mechanical and other. <br> weighing less than 10lb. to the standard ream | 13.9 | 2,254 | 13.6 | 1.444 | 5 |
| Envelope | 24.0 | 2,958 | 27.3 | 2.294 | 18 |
| Manilla (other than envelope) | 12.4 | 2,014 | 13.5 | 1.800 | 13 |
| Other machine glazed uncoated paper |  |  |  |  |  |
| Packing and wrapping Other descriptions | 19.7 43.8 | 1,802 6,819 | 14.5 28.9 | 1.070 4,147 | 24 26 |
|  |  |  |  |  |  |
| Hand-made and mould-made papers Writing and drawing | 0.5 | 257 | 0.5 | 199 | 5 |
| Writing (other than hand-made and mould-made) Printing paper | 139.8 | 22.677 | 154.5 | Printing paper |  |
| Wallpaper long elephants (i.e. base paper for wallpaper) | 38.6 | 2.742 | 45.8 | 3.007 | 14 |
| Newsprint | 529.8 | 28,437 | 614.2 | 31.605 | 10 |
| Hand-made, mould-made and other uncoated printing paper | 374.7 | 39.219(a) | 466.4 | 39,812 | 69 |
| Kraft | 127.6 | 18.432 | 128.4 | 10.062 | 19 |
| Imitation kraft | 12.7 | 1.186 | 6.9 | 485 | 17 |
| Genuine vegetable parchment | 14.2 | 2.522 | 9.6 | 1.401 | . |
| Clazed imitation parchment | 12.9 | 2.285 | 22.9 | 2,951 | 20 |
| Grease-proof and imitation grease-proof paper | 7.8 | 1,169 | 15.1 | 1,530 | 12 |
| Strawpaper and strawboard weighing not more than 901b. to the standard xeam | 116.9 | 5,643 | 128.0 | 5,048 | 20 |
| Blotting paper (including filter paper) | 5.1 | 1.582 | 5.7 | 1.632 | 20 |
| Cigarette paper in bobbins. reels or sheets | 7.1 | 2,139 | 6.7 | 2,071 | 5 |
| Carbonising tissue | 3.1 | 1,161 | 3.0 | 1,063 | 5 |
| Raw base paper for sensitising with silver salts or other solutions | 13.0 | 2.341 | 15.4 | 2,562 | 9 |
| Uncoated paper not specified above |  |  |  |  |  |
| Weighing lolb. or more to the standard ream Packing and wrapping papers Other | $59.1$ | $5.241$ <br> 18,278(a) | 63.4 120.1 | $4,253$ | 47 64 |
| Weighing less than lolb. to the standard ream | 129.9 11.8 | $18,278(\mathrm{a})$ 2,668 | 120.1 15.9 | 13,665 2,966 | $\begin{array}{r}64 \\ 8 \\ \hline\end{array}$ |
| Total paper, other than coated | 1,841.8 | 191.011 | 2.065.6 | 168,821 | . |
| Board, other than coated Machine glazed |  |  | $\bigcirc$ |  |  |
| Folding boxboard |  |  | 29.8 | 1.888 | 8 |
| Other | 24.1 | 2.484(a) | 17.8 | 1,766 | 5 |

## (a) Corrected figure (b) So far as record (c) Amount charged.

(59148)

| 1954 |  |  | $\underset{\substack{\text { Principal } \\ \text { indututries } \\ \text { which produced }(\alpha)}}{ }$ |
| :---: | :---: | :---: | :---: |
| Quantity | value | Entries |  |
| $\begin{gathered} \text { Th. tons } \\ 3.3 \end{gathered}$ | $\begin{array}{r} \varepsilon^{\prime} 000 \\ 209 \end{array}$ | Number | 10H |
| 3.3 | 209 | .. |  |
| $\begin{aligned} & 1.4 \\ & 3.4 \end{aligned}$ | 67 161 |  | 10H, 4R, 1L |
| 4.8 | 229 | .. |  |
| $\begin{aligned} & 5.0 \\ & 1.0 \end{aligned}$ | $\begin{array}{r} 1.608 \\ 263 \end{array}$ | $6$ | 3G. 101 |
| 6.0 | 1.871 | .. |  |
| 1.2 | 110 | .. |  |
| 1.2 | 110 | .. |  |
| $\begin{aligned} & 0.5 \\ & . \ddot{2.7} \end{aligned}$ | $\begin{aligned} & 297 \\ & 284 \\ & 284 \\ & 123 \\ & 202 \end{aligned}$ | $\left\{\begin{array}{l} 3 . . \\ 3 \end{array}\right.$ | 10I, 10 C 10H. 101 |
| ${ }^{12 .}{ }^{.}{ }^{\text {a }}$ | $\begin{array}{r} 2.029 \\ 650 \end{array}$ | $\}_{30}$ |  |
|  | 6.003 | .. |  |

(a) The volume number and industry references given are to the industries shown in the list at the back

Sales in the industry of other than principal products Larger establishments in the United Kingdom
TABLE 7

| 1954 |  |
| :---: | :---: |
| Quantity | Value |
| Th.cwt. | ${ }^{\prime}$. 000 |
| 218.9 | 1.155 |
| 158.9 | ${ }_{69}^{950}$ |
| $\stackrel{35.7}{. .}$ | 180 |
| .. | 10.123 |
| 21.2 | 769 |
| 81.3 | 516 |
| . | 673 |
| $\begin{array}{r} \text { Th. } \mathrm{kWh} \\ 42.020 \end{array}$ | 178 |
| . | 252 |
| .. | 139 |
| .. | 15.031 |

[^0]| Returned in this industry |  |  |
| :---: | :---: | :---: |
| 1951 | 1954 |  |
| Quantity | Quantity | Entries |
| Th.tons | Th.tons | Number |
|  |  |  |
| 230.0 | 241.3 | 54 |
| 17.6 | 13.6 | 5 |
| 1.655 .3 | 1.890 .8 | 142 |
| 24.0 | 30.1 | 14 |
|  |  |  |
| 61.4 | 93.2 | 11 |
| 654.4 | 751.6 | 52 |

Purchases of materials and fuel, 1954 Larger establishments in the United Kingdom
TABLE

|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials | Th. cu.fthms. | £. 000 |
| Pulprood | 100.6 | 3.244 |
| Wood pulp | Th.tons |  |
| Chemical |  |  |
| Dry bleached |  |  |
| Sulphite |  |  |
| Soda and sulphate | 190.2 | 11.251 |
| Dry unbleached |  | 7.095 |
| Sulphite |  |  |
| Strong, easy bleaching and bleachable Other | 372.3 | 17.750 |
| Soda and sulphate | 14.9 | 373 |
| Kraft, easy bleaching and bleachable Other | 209.7 | 9.009 |
| Wet | 35.2 147.0 | 1.744 |
| Mechanical | 147.0 | 6.587 |
| Dry | 22.3 | 624 |
|  | 611.0 | 16,976 |
| Straw | Th. tons |  |
| Strav pulp. bleached | 115.2 | 536 |
| Esparto | 20.2 | 942 |
| Wastepaper (including newspaper over-issues) | 335.8 | 5.914 |
| Linen, cotton, hemp, jute and ramie rags, not pulled | 949.5 51.5 | 10,098 |
| Cotton waste and cotton linters (raw) | 51.5 | 2.726 |
| Other fibrous materials (including waste) | 52.6 | 404 |
| China clay and other loadings |  | 1.552 173 |
|  | 252.9 | 2.461 |

Caustic soda (on the basis of $76^{\circ} \mathrm{E}$ )
Soda ash (on the basis of $58^{\circ}$ )
Glycerine and glycerine substitutes
Bleaching powder
Glue and other adhesives (other than casein)
Wax (a)
hesin and resin size
ase
yes and dyestuff
Inorganic pigment colours
Aluminium (a)
Printing ink (a)
Lime
Body paper for coating
Body board for coating
Paper and board purchased for oiling, waxing, corrugating,
crepeing, etc.
paper machine wires
Machine felts
Of wool
of cotton
Other replacement parts for machinery, plant and vehicles
and consumable tools bought as replacements packing materials

Paper for wapping and packing
Other
All other purchased materials
Fuel and electricity
Coal
Coke
Liquid fuels (including creosote/pitch mixtures)
For use in internal combustion engines
Motor spirit (petrol) for use in road vehicles and
derv, fuel derv. fue
For burning in furnaces, boilers, kilns, etc

## Gas purchased

lectricity purchasd (a)
From Electricity Boards
From other sources, including other departments of the
same $f i r m s$
All other purchased fuel
(a) So far as recorded
(b) The total quantity
$1,908,498 \mathrm{Th}, \mathrm{kWh}$.

| 1951 | 1954 |
| :---: | :---: |
| Number | Number |
| $\begin{array}{r} 64,479 \\ 9,198 \end{array}$ | $\begin{aligned} & 67.310 \\ & 10.732 \end{aligned}$ |
| 73.677 | 78,042 |
| £'000 | £. 000 |
| $\begin{array}{r} 24,376 \\ 5,987 \end{array}$ | $\begin{array}{r} 32,166 \\ 7.500 \end{array}$ |
| 30,362 | 39,666 |
| £ | £ |
| $\begin{aligned} & 378 \\ & 651 \end{aligned}$ | $\begin{array}{r} 478 \\ \text { ¢. } 6909 \end{array}$ |
| .. | 1,355 |
|  | $\begin{aligned} & \text { Number } \\ & 41,591 \\ & \xi^{\prime}, 000 \end{aligned}$ |
| .. | 223 |

Employment in a specified week (a) Larger establishments in the United Kingdom

|  | 1951 |  |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 13 | - | 13 | 13 | - | 13 |
| Operatives | 51.756 | 13,268 | 65,024 | 55,399 | 13.087 | 68,486 |
| Administrative, technical and clerical employees | 6,319 | 2.939 | 9,258 | 7.478 | 3.363 | 10,841 |
| Total employees | 58.075 | 16.207 | 74,282 | 62,877 | 16.450 | 79,327 |

(a) Week ended September 22, 1951, or October 30, 1954.


Crown copyright reserved
Printed and published by
Her Majesty's Stationery Office
To be purchased from
York House, Kingsway, London w.c. 2
423 Oxford Street, London w.1
13A Castle Street, Edinburgh 2
109 St Mary Street, Cardiff
39 King Street, Manchester 2
Tower Lane, Bristol I
2 Edmund Street, Birmingham 3 80 Chichester Street, Belfast or through any bookseller
Printed in Great Britain


[^0]:    (a) So far as recorded separately
    (b) Amount charged.

