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

## Volume 2: Industry I

PAINT AND VARNISH


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 2 INDUSTRY I

PAINT AND VARNISH

THIS REPORT on the Paint and Varnish Industry relates to establishments engaged wholly or mainly in the manufacture of paint, varnish, enamel, distemper, wood stain, white lead (in paste form), French polish, artists' colours, etc., (but not pigments).

This industry corresponds to minimum list heading 34 in the Standard Industrial Classification.

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|  | of the industry, including sales of these products by establishments classified to other industries |  | 11 | Employment in a specified week | 2/I/11 |

The following notes describe terms in general use
the table of the report. More detailed explana
ons of the term used and a description of the scope tions of the terns ised and ascription of the scope
and method of taking the census are qiven in the separ-
ate booklet entitled The Report on the Census of proate booklet entitled The Report on the Census of Pro-
duction for 1954 - Introductory Notes
net). (price 1s. 6 d .
Industrial Classification: Establishments are classif-
ied to industries according to the nature of their outied to industries according to the nature of their out-
put and as far as posibie. in conformity with the
Standard Standard Industrial Classification. Certain products
ardidentified as the principal products of individal
industries. the principal products for a oiven industry
 duction. The principle of cisssification normary
followed is that an ostablishment is clasisified to an
industry if its output of the principal products of that industry accounted for a qreater proportinodoct the value
of its output than did it output of the principal pro-
ducts of any other induts of its output than did its on
ducts of any other industry.
 value is accounted for by the characteristic products of
the specialist group.
Intermediate products: For some industries figures are
given showing the total quantities made during the year f intermediate products, i.e. products which may be
further processed in the establishments in which the furt her proces
are produced.
Larger establishments: The information given in the re--stablishments of firms employing on the average more han 10 persons. In most cases an es tablishent com-
prises the whole of the premises under the same owner-
ship or management at $\alpha$ particular address (e.g.e $a$ mine
 the producing works are not regarded as separate estron-
lishments and are included in the return for the works. Small 11 firms ar
fever persons.
The estimates for the industry as a whole given in
Tabl I are mormally obtained by increasing the other
items shown in the same proportion as total employment. Gross output (production) is the total value of goods made ad unting the value of sales and work done during
od by adjus.
the year for changes in the value of stocks of products the year for changes in the value of
on hand for sale and work in progress.
Net output is the amount left after deducting from the
value of gross out tut the aggregate of the cors of mat-
erials and fiel eri, and fuel used, the amout pris for work given out,
and. for 1951 and 194 . any transport payments made.
This represents the value added to materin This represents the value added to materich 1 s by the pro-
cose of production, and constitutes the fund from which
vages, silaries. rents. rates and taxes. advertising and Yuges. 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. Sales means stles during the year of goods made in the
establishment overed by the return or made on comisiss-
ion for it whether produced in the year or not. The establishment covered by the return or made on commis
ion for it wheter produced in the year or not.
value of sales is the net selling value. i.e. Tit amount charged to customers. Whether on an ex-works or
delivered basis. and net of any trade discunts. agent
commissions. allowances for returnable cosese ; purchase

Materials and fuel. The total cost of materials and
fuel purchased includes all purchases during the year fuel purchased inciudes all purchases during the year
of materials for use in production, and of fuel (includ-
ing oill. gas and electricity) for all purposes: packing
nateriais. .including the full cost of returnable cases when first purchased; workshop and office materials:

 Purchases of goods for merchanting are excelluded. The
oost of materials and fuel used given in Table 2, is obtained by adjusting purchased, for changes during the Stocks: Firms were required to give stocks of materials
and fuel., products on hand for sale, and work in pro-
ress, at income tax Customs and oodm 11 included in the cost of materials. Finishe
 Employment: Total employment includes working proprietand operatives, but excludes outhorkers. canteen emplos. ees and persons engaged in merchanting or any other ac-
ivity not covered by of firm's return. Tho are shown separately as excluded employees. Employes are pern
ons on the pay-roll (i.e. persons whose National sons on he pay-rol (i.e. persons whose National In-
surance cards were held by employers), whether employed
full Horking proprietors ar Morking proprietors are proprietors of businesses other
han limited companies. together with members of their families who worked in the bus iness without rece iving
fixed wages or salaries. Any persons working less than Ireland directors of limited companies (other than those Ireland directors of 1 imi ted compani
paid by fee only) are also included.
Administrative, tecmical and clerical employees include
directors. Other than those paid by fee only (excent Northern Ireland): managers. superintendents and works foremen: research, experimental, development, technical
and design employees (other than operatives):
draughtsand
men and tracers: tres. trellers: and office (including
works office) employees. porksati

$$
\begin{aligned}
& \text { Operatives include all other classes of employees, i.e.. } \\
& \text { broadly speaking, all manual workers. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Outworers are persons employed by the firm who work on } \\
& \text { materials supplied by the firm in their own homes. }
\end{aligned}
$$ Wages and salaries include all overtime payments, bonus-

es and comisions in thout any deductions for income tax. insurances. contributory pensions etc. They exclude
payments to morking proprietors. Capital expenditure includes expenditure on nem building
work. and on plant. machinery and vehicles. charged to work, and on plant, machinery and vehicles, charged to
capp tal account during the year. including any trasport
and installation costs involved. It includes expendi-
 (lyhich has nor previously ben included in the
Production reports for individual industries)
Symbols used:
for not available
for nil or negligible (less than half the final
digit shown).
Where figures are rounded, e.g.. given to the nearcies between the sums of constituent items and the totals shown. In some cases, figures have been combined
with others of asimilar nature where publication of separate detais is might disclose information relating to
an individual undertaking.

Estimates for the industry as a whol

|  | United Kingdom |  |  | $\begin{gathered} \text { Scotland } \\ 1954 \end{gathered}$ | ${ }_{\text {Wales }}^{1954}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £ million | £ million | £ million | £ million | £ million |
| Gross output (production) | 84.1 | 114.5 | 113.1 | 4.61 | 1.37 |
| Net output | 32.3 | 41.1 | 45.7 | 1.80 | 0.53 |
| Total stocks and work in progress At beginning of year Change during year | $\begin{array}{r}16.1 \\ +\quad 1.5 \\ \hline 2.5\end{array}$ | 20.9 $+\quad 9.1$ | 19.7 $+\quad 2.4$ | 0.82 $+\quad 0.07$ | 0.22 $+\quad 0.05$ |
| Capital expenditure less disposals (a) | 2.5 | 2.7 | 3.2 | 0.07 | 0.04 |
| Wages and salaries | 12.7 | 16.1 | 19.1 | 0.83 | 0.21 |
|  | Thousands | Thousands | Thousands | Thousands | Thousands |
| Totaking proprietors) | 34.6 | 37.8 | 38.2 | 1.78 | 0.42 |

(a) Capital expentiture on new building work, plant. machinery and vehicles (including (except in 1948) that
incurred at establishments not yet in production). less amounts received for plant, machinery and vehicles incurred at establishments not yet in production), less amounts
disposed of.

Summary of returns received

| TABLE 2 |
| :--- |

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold.
For subsequent years gross output includes payments to other firms and undertakings and to firms' own
separate transport organisations.
soparate transport organisations.
(b) Payments to other firm and undertakings and to firms' own separate transport organisations. For the
year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they yer 1948 payments cover only transport outwards of finished goods sold. For subsequent years they
cover payments for transport of both finished goods sold and materials and fuel purchased.
(c) Number in week ended September 25. 1948
(d) Excluding outworkers and including work

俍
(58449)

| Average number$\text { employed }(a)$ | $\begin{aligned} & \text { Estab- } \\ & \text { lish- } \\ & \text { ments } \end{aligned}$ | Gross output | $\begin{gathered} \text { Net } \\ \text { output } \end{gathered}$ | Employees |  | Wages and salaries |  | Capitalexpenditure(b) | Net output <br> per personn <br> employed <br> (a) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Qperatives | Othe | Operativ | Others |  |  |
|  | Number | £ 000 | £. 000 | Number | Number | $\varepsilon^{\prime} 000$ | $£^{\prime} 000$ | £. 000 | $\varepsilon$ |
| 11-24 | 79 | 4.307 | 1.619 | 793 | 610 | 334 | 379 | 95 | 1.147 |
| 25-49 | ${ }^{93}$ | 9.580 | ${ }^{3} .546$ | ${ }_{2}^{1.942}$ | 1.400 | 776 | 873 | 267 453 | 1.058 |
| 50 100 | 75 50 | 15.751 20.699 | 6.192 8.082 | ${ }_{3}^{2.737}$ | 2.459 3.115 | 1.188 <br> 1.498 | - $\begin{array}{r}1.462 \\ 1.972\end{array}$ | ${ }_{623}$ | 1.180 |
| 200-299 | 11 | 6.939 | 3.038 | 1.562 | 1.146 | 579 | 743 | 242 | 1.122 |
| $300-499$ | ${ }_{9}$ | 8.989 | 4.041 | ${ }_{3}^{1.916}$ | 1.429 | ${ }^{736}$ | ${ }^{885}$ | $\begin{array}{r}332 \\ 547 \\ \hline\end{array}$ | ${ }_{1}^{1.208}$ |
| \% 750 and over | ${ }_{6}^{11}$ | 19.142 22.061 | 8.136 8.771 | 3.597 3.181 | - ${ }_{3}^{2.932} \times 195$ | 1.343 1.509 | 1.719 2.159 | 547 714 | ${ }_{1}^{1.246}$ |
| Total | 334 | 107.468 | 43,424 | 19,686 | 16,586 | 7.963 | 10.191 | 3.274 | 1.196 |
| (a) Excluding <br> (b) Capital ex expendit | ditur |  |  | proprie nd on ac product | tion | nt. ma | ry | hicles, ex | udi |

No specialisation within this industry was distinguished.

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom
TABLE 5

|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
|  | Th.ewt. | ¢. 000 | Th.cwt. | ¢. 000 | Number |
| Paints, pigments, fillers and extenders in paste form, whe ther with oil or other medium | 683 | 5.140 | 505 | 3.908 | 167 |
| Distempers and water paints In paste form |  |  | 1.215 | 4.603 | 172 |
| Emulsion paints and other water paints in ready mixed form | 1.585 | 4.918 |  | 5.967 | 180 |
| Dry distempers | 98 | 248 | ${ }_{41}^{\text {Th. }}$ ( | 108 | ${ }^{43}$ |
| Paints and painters enamels, ready-mixed. including those containing synthetic resins | Th.gal. |  | Th.gal. |  |  |
| Cellulose, pigmented | 3.303 | 4,892 | 3.313 | 4.844 | 86 |
| Metallic paint | 1.291 | 1.894 | 1.282 | 2.017 308 | 203 |
| Bituminous paints, and solutions and emulsions for use as paint | 3.592 | 1.762 207 | 3.511 | 1.660 264 | 161 |
| Other | 36.536 | 56.045 | 35.752 | 55.313 | 248 |
| Unclassified paints and painters enamels ready-mixed | 628 | $\begin{aligned} & 939 \\ & 234 \end{aligned}$ | . | . | - |
| Ships bottom compositions (anti-corrosive and anti-fouling) | 1.248 | 1.401 244 | 1.480 | 1.792 | 52 |
| Varnishes and lacquers, not pigmented |  |  |  |  |  |
| Cellulose ester and cellulose ether varnishes. lacquers and clear solutions | 3,304 | 3,565 | 3,859 | 4,039 | 86 |


|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries |
| Varnishes and lacquers, not pigmented (contd.) <br> Clear oil, litho, letterpress and other printers varnishes (including stand oil) Other varnishes (including spirit varnishes and varnish stains), japans, lacquers and liquid driers | Th.gal. | ${ }^{\prime} 000$ | Th.gal. | £. 000 | Number |
|  |  |  |  |  |  |
|  | 7.702 | 8.067 | 1.742 | 1.786 | 73 |
|  |  | 1.064 | 5.477 | 5. 296 | 214 |
| Wood preservatives (other than those containing <br> oils of coal tar) and stains (other than <br> (ains) not elsewhere specified | 1.077 | ${ }_{453}^{480}$ | $\stackrel{319}{ }{ }^{-1}$ | ${ }_{531}^{260}$ | 63 |
| Manufactured thinners (solvent mixtures) | 6,479 | 4.124 | 6.947 | 4.414 | 188 |
|  | Th. cwt . |  | Th.cwt. |  |  |
|  | 123 | 616 71 | 136 | 679 866 | 60 |
| Mastic and other adhesive cementsPaste fillersPutty | 103 | 769 | 45 | 321 | 103 |
|  | 528 | 1.256 | 484 | 979 | 125 |
|  | 164 | 311 234 | 103 | ${ }_{293}^{226}$ | 139 |
| Paint and varnish makers materials not elsewhere specified. including gum copal but excluding synthetic resins <br> French polish (b) |  |  |  |  |  |
|  | 330 | 2. ${ }_{221}$ | 188 | 1.301 256 | 35 |
|  | $\underset{65}{\text { Th. gal }}$ | 65 | $\begin{gathered} \text { Th. gal. } \\ 108 \end{gathered}$ | 95 | .. |
|  |  |  |  |  |  |
| Artists paints and colours, including oil and water colours | .. | 1.193 | .. | 1.622 | 14 |
| Other artists materials. not elsewhere specified (c) | Th. Cw . | 196 | .. | 202 |  |
| Waterproofing compounds, roofing compositions and similar protective products, not elsewhere specified (b) <br> Waste products <br> Work done for the industry or on commission (d) | 49 | ${ }_{449}^{215}$ | .. | 1.031 | ${ }^{23}$ |
|  |  | $\begin{aligned} & 64 \\ & 343(\mathrm{e}) \end{aligned}$ | .. |  | $\begin{array}{r}36 \\ 15 \\ \hline\end{array}$ |
|  |  | 104.250 |  | 105.341 |  |
| Sales in other industries (see Table 6) |  | 4.763 |  | 4.946 |  |
| Principal products of this industry sold in the industry |  | 99.487 |  | 100.395 | 294 |

(a) Estimated.
(b) So far as recorded separately.
(c) For artis ts ${ }^{\text {s }}$ ' brushes and brushes of fine hair see the Brushes and Brooms Industry (Volume 11 .
(c) Industry C).
(d) Amount charged.
(e) Including work done for other industries.

| TABLE 6 |
| :--- |


|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | value |
| Linseed oil | Th.cwt. | ${ }^{\prime} 000$ |
| Refined | $9(a)$ | 40 |
| Boiled | 38 (a) | 183 |
| White lead, basic carbonate. dry | 24 | 141 |
| Chemical colours |  |  |
| Synthetic organic pigments (pure or reduced) |  |  |
| Lakes and toners | .. | 169 |
| Pigment dyestuffs | 6 | 124 |
| Inorganic pigment colours and synthetic oxides of iron | . | 331 |
| Miscellaneous chemical products | .. | 1.234 |
| Synthetic resins (including solutions in terms of resin content but excluding esterified natural resins and zinc resinates) | 179 |  |
| Lubricating oils and greases | . | 280 |
| Polishes | .. | 172 |
|  | Th. doz. |  |
| Artists brushes and brushes of fine hair | 622 | 373 |
| Other goods | .. | 1.152 |
| Total |  | 5.745 |

Total make of intermediate products
Larger establishments in the United Kingdom
TABLE 8

|  | Returned in this industry |  |  |
| :---: | :---: | :---: | :---: |
|  | Entries |  |  |
|  | Quantity | Quantity | 1954 |
| Linseed oil | Th.cwt. | Th.cwt. | Number |
| Hefined |  |  |  |
| Boiled |  |  |  |


|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials | Th.cwt. | £.000 |
| Pigments (white, black and coloured). dry |  |  |
| White lead (basic carbonate) | 81 | 509 |
| Lead oxides (including red lead, orange lead and litharge) | 119 | 716 |
| Zinc oxide (including leaded zinc oxide) | 137 | 629 |
| Earth colours (including ochres, siennas, umbers and red oxides of iron, but excluding blacks) | 176 | 250 |
| Black, mineral and carbon (including vegetable, lamp. acetylene and bone black) | 42 | 248 |
| Synthetic organic pigments (colour lakes and toners). pure or reduced | 25 | 973 |
| Chromium compounds (including lead and zinc greens) | 81 | 874 |
| Iron oxides, chemically manufactured | 75 | 228 |
| Titanium dioxide, pure and reduced (in terms of 98 per cent $\mathrm{Ti} \mathrm{O}_{2}$ ) | 602 | 4.668 |
| Antimony oxide | 29 | 273 |
| Metallic powders | 21 | 228 |
| Lithopone | 606 | 1.594 |
| Other sorts | 107 | 697 |
| Extenders, dry |  |  |
| Barytes | 440 | 363 |
| China clay | 152 | 104 |
| Whiting (including Paris White) | 1.136 | 331 |
| Other sorts | 344 | 407 |
| Paints, pigments and extenders in paste form, whether with oil or other medium |  |  |
| White lead, genuine | 113 | 678 |
| Other paste paints | 30 | 351 |
| Vegetable oils |  |  |
| Linseed oil Raw | 225 | 868 |
| Refined or boiled | 695 | 3.221 |
| Tung oil | 138 | 873 |
| Castor oil | 67 | 448 |
| Other vege table oils | 107 | ${ }_{6} 20$ |
| Plasticisers (other than vegetable oils) | $\begin{gathered} { }^{61} \\ \text { Th. gal } \end{gathered}$ | 636 |
| Solvents |  |  |
| Turpentine | 592 | 159 |
| Petroleum solvents | 20.686 | 4.043 |
| Coal tar solvents | 11.863 | 3.015 |
| Other alcohols, esters and ketones for use as solvents | 8.119 | 3.662 |
| Other solvents | 1.244 | 500 |

TABLE 9 (contd.)

|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials (contd.) | Th.cwt. | ${ }^{\prime} 000$ |
| Resins, natural and synthetic |  |  |
| Rosin (colophony) | 406 | 1,382 |
| Other natural resins and gums (including shellac. seedlac and sticklac) | 189 | 1. 535 |
| Esterified natural resins and zinc resinates | 61 | 129 |
| Synthetic resins (including solutions in terms of resin content, but excluding esterified natural resins and zinc resinates) | 481 | 5.021 |
| Bi tumen | 197 | 157 |
| Asphal tum and pitch | 213 | 1.69 |
| Lead, metallic | 190 | 914 |
| Collodion cotton (nitrate-cellulose), wet | 82 | 1.142 |
| Dyes and dyestuffs | 6 | 219 |
| Varnish | $\stackrel{9}{\text {. }}$ | $579$ |
| Glycerine | 15 | 195(a) |
| Ph thalic anhydride | ${ }_{53}$ |  |
| P.V.A. emulsions | 31 | 319(a) |
| Packing materials |  |  |
| Timber and containers made of timber | .. | 298 |
| Tin containers | .. | 6.151 |
| Other | .. | 1.998 |
| Replacement parts for plant. machinery and vehicles and consumable tools bought as replacement | .. | 730 |
| All other purchased materials | . | 7.350 |
| Unclassified materials | .. | 114 |
| Fuel and electricity | Th. tons |  |
| Coal | 39.6 |  |
| Coke | 16.3 | 174 |
| Liquid fuels (including creosote/pitch mixtures) |  |  |
| For use in internal combustion engines | Th. gal. |  |
| Motor spirit (petrol) for use in road vehicles and derv. fuel <br> Other | 1.912 | 389 |
| For burning in furnaces, boilers, kilns, etc. | 4.95 | 12 |
|  | 4.965 | 212 |
| Gas purchased | Th.therms |  |
| From Gas Boards | 2.873 | 158 |
| From other sources, including other departments of the same firms |  | 1 |


| TABLE 9 (contd.) |
| :--- |
| Fuel and electricity (contd.) <br> Electricity purchased. (b) <br> From Electricity Boards <br> From other sources. including other departments <br> of the same firms |
| All other purchased fuel |
| Total cost |

Average number of employees and wages, salaries and superannuation payments
Larger establishments in the United Kingdom (a)

|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| Average number of employees <br> Operatives <br> Administrative. technical and clerical employees | $\begin{aligned} & 20,685 \\ & 15,290 \end{aligned}$ | $\begin{array}{r} 19.686 \\ 16.586 \\ \hline \end{array}$ |
| Total | 35.975 | 36.272 |
|  | £. 000 | \& 000 |
| Wages and salaries paid to Operatives Administrative technical and clerical employees | $\begin{array}{r} 6.791 \\ 8.543 \end{array}$ | $\begin{array}{r} 7.963 \\ 10.191 \\ \hline \end{array}$ |
| Total | 15.335 | 18.154 |
|  | $\varepsilon$ | $\varepsilon$ |
| Wages and salaries per head Operatives Administrative, technical and clerical employees | ${ }_{559}^{328}$ | 405 614 |

Superannuation and other pension funds for employees
and dependents (b) Employers ${ }^{\text {- }}$ contributions
Employees covered
Pension, etc. payments to former employees and
dependents (b)
168
this
(a) The following persons, not included above, were also employed by larger establishme
industry ("other workers ' includes. for example, employees engaged in merchanting)
Payments to outworkers are also shown.

|  | United Kingdom |  |
| :---: | :---: | :---: |
|  | 1951 | 1954 |
| Canteen workers | Number | Number |
| Males <br> Females | 18 398 | 18 380 |
| Total | 416 | 398 |
| $\underbrace{\text { Males }}_{\text {Other morkers }}$ |  |  |
| Memales | ${ }_{183} 18$ | 490 114 |
| Total | 700 | 604 |
| Total excluded employees | 1.116 | 1.002 |
|  | £. 000 | £. 000 |
| Amount paid to outworkers | 14 | 16 |
| Number of outworkers | Number | Number |
| Males <br> Females | $181_{1}^{2}$ | ${ }_{216}^{2}$ |
|  |  |  |
|  |  | 218 |

(b) The figures given relate to larger establishments in Great Britain only.
Employment in a specified week (a) Larger establishments in the United Kingdom
TABLE 11

|  | 1951 |  |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 29 | 1 | 30 | 21 | 1 | 22 |
| Operatives | 15.762 | 4.837 | 20.599 | 15.128 | 4.674 | 19,802 |
| Administrative, technical and clerical employess | 10.070 | 5.360 | 15.430 | 10.719 | 6.021 | 16.740 |
| Total exployees | 25.832 | 10.197 | 36.029 | 25,847 | 10.695 | 36.542 |



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