# The Report on the <br> Census of Production <br> $$
\text { for } 1954
$$ 

Volume 11: Industry J
INCANDESCENT MANTLES

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)

## LONDON: HER MAJESTY'S STATIONERY OFFICE

## The Report on the Census of Production for 1954

VOLUME 11, industry J

## incandescent mantles

THIS REPORT relates to establishments engaged wholly or mainly in the manufacture of incandescen mantles
This industry is one of the miscellaneous manufacturing industries included in minimum list heading $199(3)$ in the Standard Industrial Classification.
There were no establishments in Northern Ireland in the register for this industry
list of tables


The following notes describe terms in general use
More detailed explanain the tables of the report. More detailed explana-
tions of the terms used and a description of the sope
and method of taking the census are given in the separ and method of taking the census are given in the separ-
ate booklet entitled hie Report on the Census of Pro.
duction for 1954 - Introductory Notes. (price 1s. 6d. Industrial Classi fication: Establishments are classif-
ied to industries according to the nature of their outIndustrial Classification: Establishments are classif-
ied to industries according to the nature of their out-
put and. as far as possible. in conformity with the put and. as far as possinde. Industrial Classification. Certain products
Standard Inder
are identified as the principal products of individual aradidentified as the principal products of individual
are instries. the principal products for a qiven industry
indust
heing of $a$ similar nature or commonly associated in probeing of a similar nature or commonly associated in pro-
duction. The principle of classification normally
Tin followed is that an establishment is classified to an
industry if its output of the principal products of that ind
industry accounted for a a greater proportion of the value
of its output than diduts output of the principal pro-
ducts of any other industry.
Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by
value is accounted for by the characteristic products of
the specialist groupt value is accounted for
the specialist group.
Intermediate products: For some industries figures are
given showing the total quantities made during the year of intermediate products. i.e., products which may be further processed in the establishments in which they

Larger establishments: The information given in the re-

 prises the whole of the premises under the same owner-
ship or management at a particular address (e.q. a mine
or factory
offices. warehouses. laboratories and
 other ancillary places of business situated apart from
the producing works are oot regarded as separate estab-
lishments and are included in the return for the works. Small firms are those employing on the average 10 or
fewer persons.
The estimates for the industry as a whole given in
able 1 are normaly obtained by increasing the oner
thens tems shown in the same proportion as total employment Gross output (production) is the total value of goods
made and other work done during the year: it is obtainmade and other work one during the year: it is obtain-
ed by adjusting the value of sales and work done during
the year for changes in the value of stocks of products the year for changes in the value of stocks of products
on hand for sale and work in progress.
Net output is the amount left after deducting from the
value of gross output the aggregate of the cost of matvalue of gross output the aggregate of the cost of mat-
verials and fuel used. the amount paid for work given out, ernd for 1951 and 1954 . any transport payments made.
and.
This represent the value added to materials by the pro cess of production, and constitutes the fund from which
ages. salaries. rents, rates and taxes, advertising and ather. salaries. rents, rates and taxes, advertising and
otherenses and all other similar charges
have to be met. as well as depreciation and profits. Sales means sales during the year of goods made in the
establishment covered by the return or made on commiss. on for it, whether produced in the year or not. Th
alue of sales is the net selling value, ite. the anount charged to cust omers, whether on an ex-works or
delivered basis. and net of any trade discounts, agents
 tax. etc. For goods charged on a delivered basis to
customers overseas. firms were required to give the
f.o.b. value. Materials and fuel: The total cost of materials and Materials and fuel. The total cost of materials and
fuel purchased incudes all purchases during the year
of materials for use in production, and of fuel (includ-
ing oil, gas and electricity) for all purposes: packing
materials, including the full cost of returnable cases mhen first purchased. workshop and of otice materials:
water charges: materials for reater water charges: materials for repirs to building.
plant and vehicles when carried out by firms own work-
people included in their returns: consumable tools: people included in their returns: consumable tools:
and parts for machinery purchased as replacements.
purchases of goods for merchating are excluded and parts for machinery purchased as replacements.
purchases of goods for merchanting are excluded. The
cost of materials and fuel used,
iven in Table 2. is
 obtained by adjusting purcha
year in the value of stocks.
Stods: Firms were required to give stocks of materials
and fuel. products on hand for sale, and work in pro-
gress. at income tax values.
Customs and Excise Duty paid on materials purchased if
normally included in the cost of materials. Finished normally included in the cost of materials. Finished
goods are similarly valued as they were sold, duty-paid
or duty-free. The net amount of any duty paid is de. goods are similarly valued as they were sold, duty-paid
or duty-free. The net amoun of any duty paid is de.
ducted in arriving at net output.
Employment: Total employment includes morking propriet-
ors. administrative. technical and clerical employees.
and ors. administrative. technical and clerical employes,
and operatives. but excludes outworkers. canten employ-
ees and persons engaged in merchanting or any other act ees and persons engaged in merchanting or any other ac-
tivity not covered by a firm s return. who are shown
separately as excluded separately as excluded employees. Employes are per-
sons on the pay-rol (i..e. persons whose National In sons on the pay-roll (i.e. persons whose National In-
surance cards were held by employers). Whether employed
full-time or part-time. Horking proprietors are proprietors of businesses other
than limited companies together with members of their
 fixed wages or salaries. Any persons working less than
half the normal hours are excluded. For Northern Ireland directors of limited componies (other than those
paid by fee only) are also included. Administrative, technical and clerical employees include diniectors other than those paid by fee only (except in
Northern Ireland): managers. superintendents and works Northern Ireland): managers, superintendents and works
foremen: research, experimental. development, technical
 men and tracers; trave,
works of fice) employees.
Operatives include all other classes of employees, i.e.,
broadly speaking, all manual workers. Cutworkers are persons employed by the firm who work on
materials supplied by the firm in their own homes. Wages and salaries include all overtime payments, bonusess and comissions without any deductions for income tax,
insurances, contributory pensions etc.
They exclude insurances, contributory pens
payments to working proprietors
Capital expenditure includes expenditure on new building
work. and on plant. machinery and vehicles. charged to capital account during the year. including any transport and
and instaccuantion costs in inolved. It includes expendi-
ture in respect of establishments in Great Britain which ture in respect of establishments in Great Britain which
had not bequn production before the end of the year had not begun production before the end of
(mrich has not previously ben included in the
production reports for individual industries). Symbols used:
for nil or negligible (less than half the final
digit shown). for nil or neg.
digit shown).
Where figures are rounded. e.g.. given to the near-
$\varepsilon$ thousand. there may be apparent slight discrepanest $£$ thousand, there may be apparent slight discrepan-
cies between the sums of constituent items and the totals shown. In some cases. figures have been combined
with others of a similar nature where publication of with others of a similar nature where publication of
separate details might disclose information relating to
an individual undertaking.

TABLE 1
Estimates for the industry as a whole

|  | United Kingiom |  |  | ${ }_{\substack{\text { Scotland } \\ 1954}}$ | ${ }_{\text {Wales }}^{1954}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | Emillion | £ million | £ million | £ million | £ million |
| Gross output (production) | . 60 | . 73 | . 67 | - | - |
| Net output | .35 | . 44 | . 40 | - | - |
| Total stocks and work in progress At beginning of year Change during year | .12 $+\quad .04$ | .15 $+\quad .09$ | .14 $+\quad .01$ | . | . |
| Capital expenditure less disposals (a) | - | . 01 | , | - |  |
| Wages and salaries | . 17 | . 18 | . 17 | . | - |
| Total employment (including | Thousands | Thousands | Thousands | Thousands | Thousands |
| *orking proprietors) | . 9 | . 8 | . 6 | + | - |

Capital expenditure on now building work, plant, machinery and vehicles. (including (except in 1948) that
incurred in Graet Britain for establishments not yet in production). less amounts received for plant.
machinery and vehicles disposed of. Summary of returns received
TABLE 2

| ( |
| :--- |

[^0]


(d) Excluding outorrers and including wrking proprietors.
(e) Excluding expenditure for estabilishments not yet in pro
(48027)

TABLE 4 - Analy Larger establishments in the United Kingdom No specialisation within this industry was distinguished. products by establishments classified to other industries

Larger establishments in the United Kingdom


ABLE 6 - Soles of principal products of the industry by establishments ABLE fi
 No output of principal products of this
other industries was recorded for 1954 .

TABLE 8 - Total make of intermediate products: Larger establishments in the United Kingdom This table is not applicable to the industry.

Purchases of materials and fuel, 1954

Larger establishments in the United Kingdom
table

Mantle Rings
Packing Materials
All other purchased materials
Fuel and electricity
Coal
Coke
Liquid fuels (including creosote/pitch mixtures)
Gas purchased
From other sources. including other departments of the From other same firms
same
Electricity purchased
From Electricity Boards
From other sources. including other departments of the
firms All other
her purchased fuel
Total cost

|  | Quantity | Cost |
| :---: | :---: | :---: |
|  | Th.gross | £ 000 |
| Materials |  |  |
| Mantle Rings | 77 | 25 |
| Packing Materials | . | 46 |
| All other purchased materials | . | 168 |
| Fuel and electricity | Th.tons |  |
| Coal | - | - |
| Coke | 0.9 | 5 |
| Liquid fuels (including creosote/pitch mixtures) | Th.gal. | - |
| Gas purchased | Th.therms |  |
| From Gas Boards | 97 | 6 |
| From other sources, including other departments of the same firms | - | - |
| Electricity purchased | Th. kWh . |  |
| From Electricity Boards | 297 | 2 |
| From other sources, including other departments of the firms | - |  |
| All other purchased fuel |  | - |
| Total $\operatorname{cost}$ |  | 253 |


|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| Average number of employees |  |  |
| Operatives Administrative, | 724 45 | ${ }_{561} 4$ |
| Total | 769 | 604 |
| Wages and salaries paid to | £. 000 | $£^{\prime} 000$ |
|  | 146 26 | 137 31 |
| Total | 172 | 168 |
| Wages and salaries per head | $\varepsilon$ | $\varepsilon$ |
| Operatives Administrative, technical and clerical employees | ${ }_{578}^{202}$ | $\begin{array}{r} 245 \\ 8709 \\ 8.000 \end{array}$ |
| Superannuation and other pension funds for employees and dependents |  |  |
| Employers' contributions |  | r |
| Employees covered |  | Number 124 124 ع. 000 |
| Pension, etc. payments to former employees and dependents |  |  |

(a). Outworkers. In addition to the employees shown above the firms in this industry employed outworkers
whose numbers and remuneration are shown below:-

| United Kingdom |  |  |
| :--- | ---: | :---: |
| Males <br> Females <br> Total | 1951 | 1954 |
|  | - | - |
|  | 457 | 737 |
|  | 457 | 737 |

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

| TABLE 11 |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 |  |  | 1954 |  |  |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors <br> Operatives <br> Administrative, technical and <br> clerical employees <br> Total employees | - | - | - | - | - | - |
|  | 63 | 663 | 726 | 55 | 531 | 586 |

LIST OF INDUSTRY REPORTS
A. Coal Mines
A. Coal Mines
B. Non-Me tall

Non-Metalliferous Mines and
Quarries fother than Coal
Salt and Slate)
S Site
Salt and Slate)
C. Salt Mines. Brine Pits and
Salt Works
Salt Mines, Brine Pits and
salt Works
Slate Quarries and Min
Slate Quarriles and Mines
E. Metalliferrous Mines and Quarries
Brick and Fireclay
Brick and Firyclay
China and Earthenvare
Glass Conter
China and Earthenvar
G1ass Containers
Glass
Coment
Cement
Building Materials (including
Roofing
Moofing Felts)

Coke Ovens and By-pren
Dyyes and Dyesturfa
Certiliser. Dif
ortiliser. Disisfectants
Insecticide
and Allied Indus trie
Coal Tar Products
hemicals (General)
Drugs and Pharmaceutical

$$
\begin{aligned}
& \text { reparations maceutical } \\
& \text { illet. Preparations and Perfnma }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Explosivive and Fireworks } \\
& \text { Paint and vanish } \\
& \text { Soapt, Candles and Glycerine } \\
& \text { Polishes } \\
& \text { Ins }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ink } \\
& \text { Match }
\end{aligned}
$$

Mineral Oil Refining
Seed Crushing and oil Refining
Glue, Gum, Pas te and Allied
Industries $\begin{aligned} & \text { Indastics Materials }\end{aligned}$

```
    Mron and Stee
    Ir.an Fundrie
    Minplate
    Mrougt Iron and Stee1 Tubes
M,
Mo(0an Vehicles and Cycles
(Repairing)
*)
Locomot ive Manu facturing
M. Aailvay Carriages
    VOLUNE 4
Shipbuilding and Ship Repairing
Shipbilding and S
Textile Machinery and Accessor
Textile Machinery and Accessorie
Constuctional Engineering
```

VOLUME 4 (contd.)

M. Hadio and Telecommunicas ions
N. Batteries and Accumulators
O. Electric Light ing Accessories
A. Tool and Implement
B. Cut
Cutery
Chain
3. Cutlery
Chain Nail, Screm
Miscellaneos
Misce llaneous Forgings
D. Mire and Wire Manutactures
E. Harduare, Hollow-ware, Me tal
D. Wire and Wire Manufactures
E. Hardarare. Hollow-mere. Me tal
Furniture and Sheet Metal
E. Hardivare, Hollow-rare. Me tal
Funiture and Sheet Me tal
F. Brass Manufacturees
G. Needlest
F. Brass Manu factures Metal
G. Need Ies. PPIns. Fish Hooks and
Metal Smalliares

Scientificill Sures
Photogical and
J. Jewellory and Plate
K. Precious Metas he fining
L. Musical Instruments
OLUME 6
A. Cotton Spinning and Doubling
A. Cotton Spinning and
B. Cotton Weaving
C. Woolleen Worsted
D. Hayon Nylon
D. Hoolien and Wors ted
E. Ryon. Nylon, etc. Production
E. Rayion. Nylon, etc. Weaving.
E. Kayon, Nylon, etc. Wrea
and Sill
F. Flicx Proces.
Linen Processing
and Soft Hemp
Linen and Soft Hemp
Hope. Twine and Net
Hosiery and Other Knitted Goods
Hosiery
Lace
Carpete
Carpet
Carpets
Narrom Fabrics
Canvas Goor
Canvas Goods and Sacks
Textile Converting
Mextile Converting
Textup Household Textile
Texile Finishing
Q. Made-up Household
Q. Textil Finishing
R. Textile Packing

## A. Asbestos

A. Asbestos
B. Fock and Rag
C. Hair. Fibre and Kindred
Industrieand
D. Industries
D. Leather (Tanni
E. Fer 1hongery
F. Leather Goods

Leather Go
Tariloring, Dresmaking, etc
Hats, Caps and mikilin
Hats, Caps and millinery
Hlove and
J. Glove
K. Umbrella and Walking Stick
L. Boot and Shoe

VOLUME 8
A. Grain Milling
B. Bread and Flou
c. Breac and Flour Confectione
D. Bacon Curing and Sausage


## A. Timber

Timber
Furniture and Upholstery
Soft Furnishings

Shop and Office Fitting
Fooden Containers and Baskets
Paper and Board
wall
. Paper and Bo
Cardboard Box, Carton and
Fibre-board Packing Case
T. Manufactured Sacking Case

Bag and Kindred Industriies
J. Nemspaper and Periodical
Printing and
J. News paper and Per riodical
Printing and Publishing
K. Printing and publishing

Printing and Publishing,
Bookbind ing. Engraving, eto
volume 11
A. Rubber
B.
Linole
ind

Linoleum, Leathercloth and
C. Aluiled Indust and Bries

Toys and Games
D.
Sor ts hequisites

Cinematograph Film Production
Cinematograp Film Printing
Plastic Goods and Fand
Plastic Goods and Fancy Articles
Incandescont Mantles
volume 12
A. Building and Contracting
B. Local Authorities (Building

D. Tramway, Trollioy Bus and
Omnibus Undertakings
E. Canal. Dock and Harbour
E. Cana1, Dock and Harbour

Undertakings
Engineering)
(Ci
F. Gas Suply Industry
G. Electricity Supply Industry
H. Water Undertakings

## 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.I
P.O. Box 569, London S.E. 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 8o Chichester Street, Belfast
or through any bookseller

Printed in Great Britain


[^0]:    (a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold.
    For subsequent years gros output incudes payments to other firms and undertakings and to firms own
    separate trans ort

