## BOARD OF TRADE

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

Volume 2: Industry Q
GLUE, GUM, PASTE AND ALLIED INDUSTRIES

Presented by the Board of Trade 19 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 2, INDUSTRY $Q$
glue, gum, paste and allied industries
THIS REPORT relates to establishments engaged wholly or mainly in the manufacture of gelatine, glue, gum, paste, shellac, size, etc., including preliminary processes such as scraping, crushing of bones, and sorting and grinding of gums.

These industries correspond to minimum list heading $39(4)$ in the Standard Industrial Classification


[^0]The following notes describe terms in general use ions of the terms used and a description of the scope
 duction for 1954- Introductory Notes (price 18.
net).
Industrial Classification: Establishments are classifed to industries according to the nature of their out
at and. as far as possible. in conformity with the utand arduatrial Classification. Certain products are identified as the principal products of individual
industries. the principal product
for a qiven industry
 duction. The principle of ciassification normarliy
followed is that an establishment is classified to an
industry if its output of the principal producte of that
 industry acteout than did its output of the principal pro-
of its outpe
ducts of any other industry. Specialist producers normally comprise those establish-
nents 50 per cent. or more of whose otal out put by
nont alue is accounted for by the characteristic products of
he specialist troup. Intermediate products: For some industries figures are
given showing the total quantities made during the year iven showing the total quantities made during the year
if intermediate products. i.e. products which may be of intermediate products, i.e. products which may be
further processed in the estabishments in which they re produced
Larger establishments: The information given in the re-
port relates mainly to larger establishments.
i. ee. ort relates mainly to 'larger establishments. i. .e.
stablishments of firms employing on the average more
han 10 persons. In most cases an establishment comthan 10 persons. In most cases an es tablishment com-
prises the thile of the paremises under the sane owner-
sinip or management at a particular address (o.g., a mine
 other ancillary places of business situated apart from
the producing orks are not reqarded as separate estab-
lishmente and are included in the return for the works. the producing works are not regarded as separate estab-
1 ishments and are included in the return for the works. Small
ferer persms
fir
pens.
The estimates for the industry as a whole given in
able 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
made and other vork done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of s.
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 qross out put the aggregate of the cost of tat-
orials and fuel used. the amount paid for work given out ands for 1951 and 1954 any transport payments made. This represents the valu added to materinals by the pro-
cess of production, and contitutesar the fund from which
nages. salaries. rents. rates and taxes. advertising and nages. solaries. rents. rates and taxes. advertising and
otter selling expenses and all other inimiar charges.
have to be met, as well as depreciation and profits. Sales means sales during the year of goods made in the


 cax. etc. For goods charged on a delivered basis to
customers verseas. firms were required to give the
f.o.b. value.
Materials and fuel: The total cost of materials and
fuel purchased inciudes arourchases during the year
of materials for use in production, and of fuel (includ-
 hen first purchased: Workshop and office materials
water charges: materials for repairs to buildings plant and vehicles, when carried out by firms. Own work
people included in their returns; consumable tools. people included in their returns consumale torls
and parts for machinery purchased as replacenents
Purchase Purchases of goods for merchanting are excluded. The
cost of materials and fuel used. given in Table 2 . is obtained by adjusting purchases for changes during the
ond

$$
\begin{aligned}
& \text { year in the value of stocks. } \\
& \text { tooks: Firms ere required to give stocks of material } \\
& \text { and fuel. products on hand for sale, and work in pro. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and fuel products on hand } \\
& \text { gress. at income tax values }
\end{aligned}
$$

Customs and Excise Duty paid on materials purchased i
normally included in the cost of materials. Finish goods are similarly valued as they were sold, duty-pai or duty-free. The net amount
ducted in arriving at net output.
Employment: Total employment includes working proprie and operatives, but excludes outworkers, canteen emplo aes and persons engaged in merchanting or any other ac
tivity not covered by a firms return. Tho are sho
 ons on the pay-roll (i.e. persons. whose National In
surance cards were held by emplogers). whether enployed
fulltime or part-time. rking part-time
Morking proprietors are proprietors of businesses other
than limited companies. together with members of their families who worked in the business without receiving
fixed wages or salaries. Any persons working less than
alf the normal hours anf the normal hours are excluded. For Northern Ireland di rectors of liminted ocmpanies. (other than those
paid by fee only) are also included. paid by fee only) are also included.
aministrative, technical and clerical employes include
irectors
 foremen: research. experimental, development. techical
and design employees tother than operatives) drauhts-
men and tracers: travellers: and office (including men and tracers: tray
works office) employees
Operatives include all other classes of employees. i.e.
broadly speaking, all manual workers. Outworkers are perans employed by the firm who work on
materials supplied by the firm in their own homes.
 nsurances. Contributory pensi,
payments to working proprietors.
Cepital expenditure includes expenditure on ner building
work, and on plant, machinery and vehicles. charged to apital account during the year. including any transport and installation costs involved. It includes expendi-
nure in respect of establishments in Great Britain vhich ture in respect of establishments in Great Britain which
had not be gun production before the end of the year
(which has not previously been included in the Census of (which has not previously been included in the
Production reports for individual industries).

## Symbols used:

for not available
for nill or negligible (less than half the final
digit shown).
Whe re figures are rounded. e.g.. given to the nearast thousand. there nay be aparent slight discrepan-
ies between the sums of constituent items and the tot. als shown. In some cases. figures have been conbined separate details might disclose information relating

|  | United Kingdom |  |  | $\begin{gathered} \text { Scotland } \\ 1954 \end{gathered}$ | $\begin{gathered} \text { Wales } \\ \text { Was } \\ \text { (a) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £million | Emillion | £ million | £ million | £ million |
| Gross output (production) | 11.0 | 16.5 | 17.2 | 0.33 |  |
| Total stocks and work in progress | 3.9 | 5.7 | 6.4 | 0.15 |  |
| At beginning of year Change during year | 1.5 $+\quad 0.2$ | 5.7 $+\quad \begin{array}{r}1.9 \\ \hline 0.5\end{array}{ }^{\text {a }}$ ( | 2.7 | 0.16 | . |
| Capital expenditure less disposals (b) | 0.5 | 0.5 | 0.5 | - |  |
| Wages and salaries | 1.8 | 2.4 | 2.7 | 0.08 | $\cdots$ |
| Total employment (including working proprietors) | Thousands <br> 5.2 | Thousands | Thousands | Thousands | Thousands |

 incurred in Great Britain for establishments not yet in production). Less amounts received for plant,
machinery and vehicles disposed off.


TABLE 5
Larger establishments in the United Kingdom

|  | 1951 |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Guantity | volue | Quantity | Value | Entries |
|  | Th.tons | \&.000 | Th.tons | £.000 | , Number |
| Gelatine, glue and size (animal) <br> Gelatine (including pharmaceutical and photographic) |  |  |  |  |  |
|  |  |  |  |  |  |
| Bona glue and size, dried, or undried in terms of commercial dry weight | 14.0 | 1.761 | 12.7 | 1.685 | 20 20 |
| Hide glue and technical gelatine. dried. or undried in terms of commercial dry weight | 12.0 | 2.149 (b) | 12.7 | 1.685 | 20 |
| Liquid glue | 2.9 | 407 | 3.1 | 1.954 433 | 18 |
| Other adhesives |  |  |  |  |  |
| Casein glue | 1.8 | 303 | 1.6 | 219 | 8 |
| Vegetable adhesives for all purposes |  | 3.229 83 | 40.6 | 3.023 | 26 |
| Syn thetic resin glue | 8.1 |  | 11.2 | 1.153 | 9 |
| Other adhesives |  | ${ }_{166}$ | $\{13.0$ | 1.044 |  |
| Vegetable gums, not adhesive, used as finishing materials in textile industries |  |  | f.. | 257 | 32 |
|  |  | (c) | 2.5 | 379 54 | 5 |
| Bleached shellac | 0.7 | 267 | 0.5 | 152 |  |
| Bone by-products | 7.6 |  |  | 158 |  |
|  |  | 220 | 8.4 | 303 | 11 |
| Waste products <br> Work done for the trade or on commission (d) |  | 42 | .. | 20 | 14 |
|  |  | 49 | .. | 82 | 5 |
|  |  | 13.729 |  | 14.711 |  |
| Sales in other industries (see Table 6) |  | 1.097 |  |  |  |
| Principal products of this industry sold by establishments in the industry |  |  |  |  |  |
|  |  | 12.632 |  | 13.237 | 60 |

(a) Described as edible gelatine (including pharmaceutical) and photographic gelatine.
(b) Including an unrecorded quantity of purchased gelatine sold in blended form
(c) Not selanale
(d) Amount charged.

(b) Production is widely distributed among other industries.

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

|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | Value |
|  | Th.tons | £'000 |
| Tallow | 1.5 | 95 |
| Other animal oils. fats and greases | 12.4 | 749 |
| Unrefined | 4.9 |  |
| Refined | 13.2 | 286 |
| Fertilisers | .. | 260 |
| Feeding stuffe for animals. poultry, etc. | 34.3 | 830 |
| Other goods |  | 3.294 |
| Total |  |  |


|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials | Th.tons | $\varepsilon^{\prime} 000$ |
| Bones and bone pieces, raw or degreased | 120.1 | 1.932 |
| Glue and gelatine stock, hide cuttings and leather and skin waste |  |  |
| Wet | 78.6 | 463 |
| Dry | 13.7 | 249 54 |
| Gelatine | 3.1 | 487 |
| Osseine | 3.3 | 357 |
| Starch and Dextrine | 30.7 | 1,579 |
| Natural gums and resins | . 6 | 109 |
| Packing materials |  |  |
| Of paper and board | .. | 134 |
| Other | .. | 395 |
| Replacement parts for plant, machinery and vehicles and consumable tools bought as replacements | . | 310 |
| All other purchased materials | .. | 2.770 |
| Fuel and electricity |  |  |
| Coal | 133.9 | 490 |
| Coke | 19.8 | 71 |
| 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 | 317.5 | 64 |
| Other | 27.2 |  |
| For burning in furnaces, boilers, kilns, etc. |  | $\begin{aligned} & 32 \\ & 14 \end{aligned}$ |
|  | Th.therms |  |
| Gas purchased from Gas Boards and other sources | 434.8 | 23 |
|  | Th. k wh . |  |
| $\begin{aligned} & \text { Electricity purcha } \\ & \text { other sources }(\alpha) \end{aligned}$ | 36,654 | 168 |
| All other purchased fuel |  | 129 |
| Total cost |  | 9.830 |

TABLE 8 - Total make of intermediate products Larger establishments in the United Kingdom
This table is not appropriate to these industries.

| 1951 | 1954 |
| :---: | :---: |
| Number | Number |
| 4.052 | $3.846$ |
| 5.459 | 5.033 |
| ${ }^{\prime}$ ' 000 | £. 000 |
| 1.454 | 1.725 |
| 851 | 862 |
| 2.304 | 2.587 |
| $\varepsilon$ | $\varepsilon$ |
| $\begin{aligned} & 359 \\ & 605 \end{aligned}$ | 449 726 |
|  | £.000 |
|  | 41 |
|  | ${ }_{\substack{\text { Number } \\ 1.665}}^{\text {cen }}$ |
| . | \&.000 |
|  | 9 |

(a) The following persons. not. included in the table, were also employed by larger establishments in this
industry ("Other workers" includes. for example, employees and werchanting

|  | United Kingdom |  |
| :---: | :---: | :---: |
|  | 1951 | 1954 |
|  | Number | Number |
| Canteen morkers Male | 34 ${ }^{3}$ | $\underset{32}{2}$ |
| Total | 37 | 34 |
| Other workers Male | ${ }^{22}$ | 8 |
| Total | 35 | 13 |
| Total excluded employees | 72 | 47 |

(b) The figures given relate to larger establishments in Great Britain only.

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

|  | 1951 |  |  | 1954 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 2 | 1 | 3 | 1 | - | 1 |
| Operatives | 3.254 | 785 | 4.039 | 3.141 | 722 | 3.863 |
| Administrative, technieal and clerical employees | 920 | 491 | 1.411 | 735 | 441 | 1.176 |
| Total employees | 4.174 | 1.276 | 5.450 | 3.876 | 1.163 | 5,039 |

[^1]

LIST OF INDUSTRY REPORTS

VOWME 8 (contd.)


J. Preserecred Fruit and Vegetables
volume 9

$$
\begin{aligned}
& \text { K. Spirititectifying and } \\
& \text { L. Somp ounding } \\
& \text { Lot Dridk. Britist. Wines } \\
& \text { M. Tobd Cider }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A. Timber } \\
& \text { B. Furnture and Upholstery } \\
& \text { C. Soft Furn ishings }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Soft Fure ind ing ing olst } \\
& \text { Shop and Office Fitting }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Printing and Publishing } \\
& \text { K. Printinand Publiohing. } \\
& \text { Bookbinding. Engraving, otc. }
\end{aligned}
$$

$$
\text { voume } 11
$$

$$
\begin{aligned}
& \text { A. Rubber } \\
& \text { B. Linoleum, Leathercloth and } \\
& \text { Allied Industries }
\end{aligned}
$$

$$
\begin{aligned}
& \text { B. Linoleun, Leatherel } \\
& \text { Allied Indut trice } \\
& \text { C. Brushes and Broons }
\end{aligned}
$$

$$
\begin{aligned}
& \text { A. Building and Contracting } \\
& \text { B. Local Authorities (Building and } \\
& \text { Civil Engineering) }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Engineeringl } \\
& \text { Gas Supply Industry } \\
& \text { Electricty Suply Industry } \\
& \text { Water Under Stakiny }
\end{aligned}
$$

$$
\begin{aligned}
& \begin{array}{l}
\text { Spirsit Dis istliling } \\
\text { Spirit Rectifying }
\end{array}
\end{aligned}
$$

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[^0]:    IMPORTANT NOTES and definitions appear on the next page.
    In interpreting the data in the tables, it is essential to bear these in mind.

[^1]:    (a) Week ended September r
    DS $55210 / 1 / \mathrm{Wt} .3351 \mathrm{~K} .44 / 57 \mathrm{CL}$

