## The Report on the Census of Production for 1954

Volume 4: Industry E



Presented by the Board of Trade bobliament 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 4 INDUSTRY E
Small arms

THIS REPORT on the Small Arms Industry relates to establishments, including Government establishments, engaged wholly or mainly in the manufacture of small arms and parts thereof.

This industry is included in minimum list heading 57 in the Standard Industrial Classification. There were no larger establishments in Northern Ireland in the register for this industry.

LIST of tables

| Table No. | Title <br> Industry summary: estimates for the industry as a whole | Page <br> 4/E/3 | $\begin{gathered} \text { Table No. } \\ 6 \end{gathered}$ | Title <br> Sales of principal products of the industry by estabother industries | Page <br> 4/E/5 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Summary of returns received | 4/E/3 | 7 | Sales in the industry of other than principa products | 4/E/5 |
| 3 | Analys is by size, 1954 | 4/E/4 | 8 | Total make of intermediate products | Does not |
| 4 | Analysis according to specialisation within the industry, 1954 | Does not apply | 9 | Purchases of materials and fuel, 1954 | 4/E/6 |
| 5 | Sales of principal products of the industry, including | 4/E/4 | 10 | Average number of employees and wages, salaries and superannuation payments | 4/E/7 |
|  | establishments classified to other industries |  | 11 | Employment in a specified week | 4/E/7 |

The following notes describe terme in general use
in the toble of the report. More detail ed explanations of the terms used and a description of the scope
and method of taking the census are given in the separ
 duct ion
net).
Industrial Classi fication: Establishments are classif-
ied to industries according to the nature of their out-
 Sutand Industrial Classification. Certain products
are identified as the principal products of individual
and ardustries. the principal products for a given industry
ine ing of a similiar nature or commoniy asociated in proy
bent
duction
 Industry if its output of the principal products of that
induatry accounted for a oreater proportion of the value
of its output than did its output of the principal proof its output than did its output of the principal pro-
ducts of any other industry.
 value is accounted fo
the specialist group.
Intermediate products:
given showing the tome industries figures are
quantities made during the vear of intermediate products, i.e... products which may be further processed in the establishments in which they Larger establi
Larget establishments: The information given in the reestablishments of firms employing on the average more
than 10 persons. In most cases an as tablishment com-
trines the thole of the premises under the sime prises the whole of the premises under the same owner-
ship or management at a particular address e. (e.g. a mine or factory) Offices, Narehouses. Laboratories and
other ancillary places of business situated apart from Other ancillary places of business situated apart from
the producing works are on rearaded as separate estab-
lishments and are included in the return for the works. Small firs
ferer persons.
Table 1 are nostimates for the industry as a whole given in items shown in the same proportion as total employment. Gross output (production) is the total value of goods
made and other work done uring the year: it is obtain-
in od by adjusting the value of sales and work done during
the yaar for changes in the value of stocks of products
on hand for sale and work in procress. on ha
Net output is the amount left after deducting from the
value of gross output the aggregate of the cost of mat-
 and, for 1951 and 1954, any transport payments made.
This represents the value added ot mater in by by the pro-
cess of production, and constitutes the fund from which coss of prontuction, and constitutes the fund from which
cages. salaries. rent rates and taxes. odvertising and wages. siaries. rents. Tates and axes. Gdvertising and
other selling expenses and all other similar charges
have to be met. as well as depreciation and profits. Sales means scles during the year of goods made in the
 amount charged to customers, whether on an ex-works or
delivered basis. and net of ay trade inscounts, agents delivered basis and net of any trade discounts. agents
comisissions. ailowances for returnable canes. purchase
tax. etc. For goods charged on a delivered basis to tax. etc. For goods charged on a delivered basis to to
customers oversecas. firms were required to give the Materials and fuel. The total cost of materials and
fuel purchased includes all purchases during the year fuel purchased includes all purchases during the year
of materials for use in production, and of fuel (includ-
ing oil. gas and olectricity) for all purposes: packing
materiais. including the full cost of returnable case materials, including the full cost of returnable cases
when first purchased: workhop and office materials:



 Stocks: Firms were required to qive stocks of materials and fuel. provuct te on hand for sale, and work in pro-
gress, at income tax values. Customs and Excise Duty paid on materials purchased is
no mally included in the cost of materials. Finished no rally included in the cost of materials. Finished
goods are simillarly valued as they were sold. duty-paid
or duty-free.
The net amount of any duty paid is degoods are sinilarly valued as they were sold, duty-paid
orduty-free. The net amount of any duty paid is de-
ducted in arriving at net output.
Employment: Total employment includes working propriet.
ors. administrative. technical and clerical employees.
 oes and porsons engaged in merchanting or any other ac-
tivity not covered by a firm feturn. Tho are sho separately as exeluded employees. ${ }^{\text {Employe are }}$ are per.
sons on the pay-roll (i.e. persons whose National In. sons on the pay-roll (i.e. persons whose National in-
surance cards were held by employers). Whe ther employed
fult-time or part-time full-time or part-time
Morking proprie etors are proprietors of businesses other
than limited companies. together with members of the ir
families who tan
families who worked in the business without receiving
fixed wages or salaries. Any persons working less than fixed wages or salaries. Any persons working Less than
halif the normul hours are excluded. For Northern
Ireland directors of limited companies (other than those Ireland directors of 1 imited companies
paid by fee only) are also included.
Administrative, technical and clerical employes include
directors, other than those paid by fee only (except in irectors, other than thoge paid by fee only (except in
Northern Ire land): manaers. superintendents and works Northen research, experimentan, development. tech hical
foremen
and desin and design employes (other than operatives): draughts-
men and tracers; travellers; and office (including
morks office employes works office) employees.
Operatives include all other classes of employees, i.e..
broadly speaking. all manual workers. Outworkers 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, bonuses and cominissions without any deductions for income tax.
insurances. contributory pensions etc. They exclude
Capital expenditure includes expenditure on nem building work, and on plant, machinery and vehicles, charged to capital account during the year. including any transport
and installation costs involved. It include expend
ture in respect of establishments in Great Britain which Ture in respect of establishments in Great Britain "hich
had not be gun production hefore the end of the year
(ahich has not previously been included in the Census of Production re
Symbols used:
. for not available
for nil or negligible (less than half the final
for nil or neg.
digit shown).
 est $\varepsilon$ theusand. there may be aparent silight discrepan-
cies between the sums of constituent items and the totals shown. In some cases. figures have been combined Mith others of asimilar nature where publication of
separate detail mitht disclose information relating to
an individual undertaking.

|  | United Kingdom |  |  | $\begin{aligned} & \text { Scotland } \\ & 1954 \end{aligned}$$\begin{gathered} 1904 \\ \text { (a) } \end{gathered}$ | $\begin{aligned} & \text { Wales } \\ & 1954 \\ & (a) \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £million | £ million | £ million | £ million | £ million |
| Gross output (production) | 4.1 | 4.3 | 5.1 | .. |  |
| Net output | 2.9 | 3.1 | 3.7 |  |  |
| Total stocks and work in progress At beginning of year Change during year | 3.0 $+\quad 0.3$ | 2.7 $+\quad 0.4$ | 2.6 $+\quad 0.1$ | . | $\cdots$ |
| Capital expenditure less disposals (b) | - | 0.6 | 0.5 | - | $\ldots$ |
| Wages and salaries | 2.2 | 2.2 | 2.6 | . |  |
| Total employment fincluding working proprietors) | Thousands 6.4 | Thousands 5.5 | $\begin{gathered} \text { Thousands } \\ 5.4 \end{gathered}$ | Thousands | Thousands |

(a) Owing to the risk of disclosure of information relating to individual firms. separate particulars cannot b
(b) Capitai expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that
incurred in Great Britain for estabishments not yet in production). Less amounts received for plant.
machinery and vehicles disposed of.

Summary of returns received
TABLE 2

| TABLE 2 |
| :--- |

(a) For the year 1948 gross out tout excludes payments for transport services oundrards on finished goods sold.

(b) Payments to other firms and undertakings and to firms onn separate transport organisations. For the
year 1948 payments cover only transport outwards of finisiled goods sold. For subsequent years they
cover (c) Nurber payments for transport of both fin
(d) Excluding outworkers and including working proprietors
(e) Excluding expenkiture for estabbingments not yet in production,
(f) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951 .

| Average number employed (a) | Estab- lish- <br> ments | $\begin{aligned} & \text { Gross } \\ & \text { output } \end{aligned}$ | Net | Employees |  | Wages and salaries |  | $\begin{gathered} \text { Capital } \\ \text { expenditure } \\ \text { (b) } \end{gathered}$ | $=\begin{gathered} \text { Net output } \\ \text { per person } \\ \text { emporyed } \\ \text { (a) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Operatives | Others | Operatives | Others |  |  |
| $\begin{aligned} & 11-24(c) \\ & 25-49 \\ & 50-99 \\ & 100-199 \\ & 200 \text { and over } \\ & \text { Total } \end{aligned}$ | Number | £ 000 | £ 000 | Number | Number | £. 000 | \& 000 | £. 000 | $\varepsilon$ |
|  | $\begin{aligned} & 8 \\ & 3 \\ & 4 \end{aligned}$ | $\begin{gathered} 92 \\ 131 \\ 309 \end{gathered}$ | $\begin{gathered} 69 \\ 106 \\ 211 \end{gathered}$ | $\begin{gathered} 77 \\ \begin{array}{c} 119 \\ 229 \end{array} \end{gathered}$ | $\begin{aligned} & 14 \\ & 24 \\ & 33 \end{aligned}$ | $\begin{gathered} 34 \\ 45 \\ 45 \end{gathered}$ | $\begin{array}{r} 9 \\ 17 \\ 26 \end{array}$ | $\begin{aligned} & 5 \\ & 4 \\ & 8 \end{aligned}$ | $\begin{aligned} & 752 \\ & 741 \\ & 805 \end{aligned}$ |
|  | 6 | 4.301 | 3.184 | 3.981 | 702 | 1.850 | $\stackrel{-122}{ }$ | 570 | 680 |
|  | 21 | 4.833 | 3.570 | 4.406 | 773 | 2.048 | 473 | 587 | 689 |
| (b) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles. excluding <br> (c) Including four establishments with fewer than 11 persons employed, particulars of which were included <br> with those for larger establishments on a single return |  |  |  |  |  |  |  |  |  |

TABLE 4 - Analysis according to specialisation within the industry, 1954 Larger establishments in the United Kingdom
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 |
| :--- |

[^0]TABLE 8 - Total make of intermediate products
Larger establishments in the United Kingdom
This table is not applicable to the industry.

|  | Quantity | Cost |
| :---: | :---: | :---: |
| Materials | Th.tons | E'000 |
| Iron and steel (alloy and non-alloy) |  |  |
| Drop forgings \{ | 0.3 | 41 102 |
| Wrought tubes and fittings for wrought tubes |  | 2 |
| Angles, shapes, sections, bars, rods (including wire rods) dirders, beams and joists (not fabricated) | 1.2 | 13 |
| Forgings, except drop-forgings, in the rough or machined |  | 9 |
| Other, except finished parts | 0.5 | 37 13 |
| Light metals and non-ferrous metals in all forms, except finished parts | . | 20 |
| Rubber in all forms, including finished parts | .. | 1 |
| Paint. enamel and varnish |  | 3 |
| Lubricating oils and greases (including cutting oil and erulsions) | $\mathrm{Th}_{51.7}^{\text {Th. }}$, | 11 |
| Timber (excluding timber for making into packing cases, etc.. <br> or for repairing returnable cases) <br> Hardwood and sof twood | $\begin{gathered} \text { Th.cu.ft. } \\ 54.6 \end{gathered}$ | 78 |
| Plywood, including battenboard, blackboard and laminboard | $\begin{aligned} & \text { Th.sq. ft. } \\ & 23.0 \end{aligned}$ | 1 |
| Nuts, bolts, studs, screws, rivets, washers, nails, tacks, etc. | .. | 11 |
| Purchased components | .. | 199 |
| Replacement parts for own plant, machinery and vehicles |  | 38 |
| Consumable tools, including gauges, etc. bought as replacement | .. | 83 |
| Packaging materials |  |  |
| Paper and paperboard, and caraboard boxes, fibreboard packing cases, etc. | .. | 13 |
| Other packaging materials |  | 11 |
| All other purchased materials | $\cdots$ | 178 |
| Fuel and electricity | Th. tons |  |
| Coal | 12.7 | 52 |
| Coke | 0.9 | 5 |
| Liquid fuels (including creosote/pitch mixtures) | Th. gal. |  |
| For use in internal combustion engines | 142.8 | 14 |
| Gas purchased | Th. therms |  |
| From Gas Boards | 416.6 | ${ }_{8}^{26}$ |
| From other sources, including other departments of the same firms | - |  |
| Electricity purchased (a) | Th. kWh . |  |
| From Electricity Boards | 10.682 | 58 |
| From other sources, including other departments of the same firms |  |  |
| All other purchased fuel |  | 1 |
| Total cost |  | 1.113 |

(a) $\begin{aligned} & \text { owing to the risk of disclosure of in formation relating to individual firms the total quantity of } \\ & \text { electricity } \\ & \text { generated in firms }\end{aligned}$ own establishments cannot be given.

|  | 1951 | 1954 |
| :---: | :---: | :---: |
| Average number of emplo | Number | Number |
| Operatives <br> Administrative, technical and clerical employees | $\begin{array}{r}4.392 \\ \\ \hline 99\end{array}$ | 4.406 |
| Total | 5.191 | 5,179 |
| Wages and salaries paid to | \&. 000 | $\varepsilon^{\prime} 000$ |
| Operatives $\begin{aligned} & \text { Administrative, technical and clerical employees }\end{aligned}$ | $\begin{array}{r} 1.672 \\ 429 \end{array}$ | 2.048 473 |
| Total | 2.101 | 2.521 |
| Wages and salaries per head | $\varepsilon$ | $\varepsilon$ |
| Operatives $\begin{aligned} & \text { Administrative, lechnical and clerical employees }\end{aligned}$ | ${ }_{537}^{381}$ | 465 612 |
| Superannuation and other pension funds for employees and dependents |  | ع. 000 |
| Employers' contributions | .. | 21 |
| Employees covered | .. | Number 545 |
| Pension, etc. payments to former employees and dependen ts | .. | ع. 000 |

(a) The following persons, not included above, were also employed by larger establishments in this industry
( o ther workers
includes for example, employees engaged in merchanting).
Payments to outworkers are

|  | 1951 | 1954 |
| :---: | :---: | :---: |
| Canteen morkers | Number | Number |
| Male | $9{ }_{9}{ }^{2}$ | ${ }_{86}^{1}$ |
| Total | 92 | 87 |
| Other workers Male Female | ${ }_{9}^{56}$ | 43 10 |
| Total | 65 | 53 |
| Total excluded employees | 157 | 140 |
| Outworkers | $\begin{gathered} 46 \\ \varepsilon \cdot 000 \end{gathered}$ | $\begin{gathered} 36 \\ \varepsilon \cdot 000 \end{gathered}$ |
| Payments to outworkers | 8 | 8 |

> Employment in a specified week (a)

Larger establishments in the United Kingdom

| TABLE 11 |  |  |  | Number |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 |  |  | 1954 |  |  |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | 3 | - | 3 | 1 | - | 1 |
| Operatives Administrative techial and | 3.219 | 1.179 | 4.398 | 3.145 | 1.259 | 4.404 |
| Administrative, technical and clerical employess | 544 |  | 808 | 555 | 236 | 791 |
| Total employees | 3.763 | 1.443 | 5.206 | 3.700 | 1.495 | 5.195 |

DS $88206 / 1 / \mathrm{Wt} .3351$ K. $41 / 58 \mathrm{Cl}$

vowne 8 (contd.)
. Prese rved Meat
I. Iee Cream
Slucose
Sogar and Cocoa. Chocolate and Sugar
J. Preserved Fruit and Vegetables
volume 9
A. Margar ine
B. Fish Curin
C. Cattlor Do
D. Vinegar an

Fish Curing
Catt10. Doa
Vind Poultry Foods
Starar and Other Condiments Starch . Miscel llaneous Preserved Foods . Breming and Malting
J. Spirit Distilling
K. Sirtit hectifying and
Somponding
L. Soft Drinks, British Wine
L. Soft Cider
M. Tobacaco
vowme 10
A. Timber
. Fumber
Furniture and Upholstery
Soft Furn ishings Shop and Oftice Fitting
Hooden Containers and Basketo
E. Mooden Conticiners
F. Paper and
G.
Ballopaper
B.

Cardboard Box, Carton and
FIbre-board Packing Case

Bag and Kindred Indus tri
N. Nems paper and Periodical
Printing and Publisishing
Krinting and Publishing.
ookbind ing. Engraving,
volume 11
A. Rubber
B. Linoleum, Lea there
Lhiled Industrites
C. Brushes and Brooms
D. Toys and Games

vowne 12
A. Building and Contracting
B. Local Authorities (Building and

Civil Enqineering)
C. Railway ICivil Engineering)
D. Tramay, Troiley Bus and

(Civil Engineer ing)
Canal, Dock and Harbou
E. Canal, Dock and Harb
Under takings (Civi
Engineering
(Cint
F. Gas Suppring Indus
G. Eliectricity ty supplyy Industry
H. Mater Under takings
© Crown copyright 1958
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
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]:    (b) Anount charged.
    (c) Exclusive of the value of goods used by firms and recorded as their outout

