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

## Volume 3: Industry L

RAILWAY LOCOMOTIVE SHOPS AND
LOCOMOTIVE MANUFACTURING

Presented by the Board of m ROildTionRanjlament in pursuance of the
Statistics of Trade Act, $\left(\frac{37}{340}\right.$ \& \& 4

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The Report on the Census of Production for 1954

VOLUME 3 , INDUSTRY L
RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING

THIS REPORT on the Railway Locomotive Shops and Locomotive Manufacturing Industry relates to establishments engaged wholly or mainly in the manufacture of locomotives, mechanical railway signals. turntables, automatic couplings and brake gear (including repair work other than light repairs carried out in running sheds), steam traction engines, steam wagons and road rollers.

This industry corresponds to minimum list headings 84 and 85 in the Standard Industrial Classification

In all years, the output of railway locomotive shops is valued at cost i.e. a sum calculated to cover the cost of labour and materials together with such $\alpha$ proportion of the general establishment charges properly applicable to the output concerned but without any allowance for profit. The out put of
prof it.

There were no larger establishments on the register for locomotive manufacturers other than railway companies in Northern Ireland for any year.

Except for Table 1 which covers the whole industry, the tables in the report are in two parts: Part A relates to Railway Locomotive Shops and Part B to Other Locomotive Manufacturers.


[^0]The following notes describe term in general use
in the tables of the report. More detailed explana-
tions of the terms used and a description of the scope tions of the terms used and a description of the scope
and method of taking the census are given in the separ-
 Industrial Classification: Establishments are classifed 1 Industries according to the nature of their out-
put and as far as possible. in con formity with the Standard Induatrial Classification. Certain products
are identified as the principal products of individual

 followed is that an establishment is classified to an
industry if it output of the principal products of that
industry accounted for a greater proportion of the value
ind of its outpout than did its output of the principal pro-
ducts of any other industry.
Specialist producers normally comprise those establish
ments So per cent. or more of whose total out put by
Sor value is accounted for by the characteristic products of
the specialist group. Intermediate products: For some industries figures are
given showing the total
 are produced.
 stablishments of firms employing on the average more
than 10 permons. In most cases an establishment com-

 other ancillary places of business situated apart frow
the producing works are oot rearded as separate estab-
lishmente and are included in the return for the works. Small firms
ferer persons.
Table The estimates for the industry as a ahole given in Gross output (phe same proportion as total employment.
 diby adjusting the value of sales and work done during
the year for changes in the value of stocks of products on hand for sale
Net output is the amount left after deducting from the
value of gros output the aggregate of the cost of mat-
erials and fuel used. the amount paid for erials and fuel used, the amount paiid for work qiven out
and. for 1951 and 1954. any transport payments made. and. for 1951 and 1954, any transport payments made.
This represents the value added to matorials by the proo
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 commis. ion for int. whet ter produced in the year or not. The
value of sales is the net siling value. i.. the
vauet chate to

 Materials and fuel. The total cost of materials and
fuel purchased includes all purchases during the year Materials and fuel. The total cost of materials and
fuel purchased inciudes all purchases during the yar
of materials for use in production, and of fuel (includ-
ing oil gas and electricity) for all purposes: packing
 When first purchased; workhop and of fice materials;
water charges; materials for repairs to buildings, plan cand venhicles when carried out by firms own vork.
people included in their returns consumable tools. people included in their returnsi, consumable tools;
and parts for machinery purhased as replacements.
aurchases of goods for merchanting are excluded. The
 obtained by adjusting purchases for changes during the
Stodks: Firms were required to give stocks of materials
and fuel. product son hand for sale, and work in progress. at income tax values.
Customs and Excise Duty paid on materials purchased is
 r duty-free. The net amount
ucted in arriving at net output
Employment: Total epplopment includes working propriet.
ors. administrative. technical and clerical employees.
 ees and persons engaged in merchanting or any other ac-
tivity not covered by firm's return. who are shown

 Morking proprietors are proprietors of businesses other
than 1 imited companies, together with members of the ir
the
 ined wages or sciaries. Any persons working less than
haf the normal hours are excluded. For Nor thern
heland directors of limited companies. (other than those
relt Ireland dirertors of 1 inime ited compani ie
paid by fee only) are also included.
Administrative, technical and clerical employees include
directors. other than those paid by fee only (except in

 and design employees (other than operatives): draughts-
men and tracers travellers; and office (including
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 paymonts, bonus-
es and comisions

Capital expenditure includes expenditure on new building
work, and on plant. machinery and vericles. charged to capital account during the year. including any transport.
and ind
 ture in respect of etatahiinhments in Great Britain which
had no hequa production hefore the nd of the year
(which has not previously been inctuded in the Census of
 Symbols used:
for nil or negligible (less than half the final
for nil or neg.
digit shown).
Where figures are rounded, e.g. . given to the nearest $\varepsilon$ thousand, there nay be aparent slight discrepan-
cies between the sums of constituent items and the totals shown. In some cases. figures have been combined
alther \#ith others of a similar nature where publication of
separate detain mith disclose information relating to
an individual undertaking.

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING
Estimates for the industry as a whole
table

|  | United Kingdom |  |  | $\begin{aligned} & \text { Scotland } \\ & 1954 \\ & \text { (a) } \end{aligned}$ | $\underset{\substack{\text { Wales } \\ 1954}}{ }$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1948 | 1951 | 1954 |  |  |
|  | £million | £ million | £ million | £ million | Emillion |
| Gross output (production) | 61.2 | 70.2 | 83.6 | .. | 1.72 |
| Net output | 36.9 | 38.5 | 44.9 | .. | 1.19 |
| Total stocks and work in progress At beginning of year Change during year | 22.3 $+\quad 4.3$ | 24.9 $+\quad 3.9$ | -32.7 |  | 0.13 |
| Capital expenditure less disposals (b) | 1.2 | 1.1 | 2.0 1.0 |  | 0.01 |
| Wages and salaries | 30.7 | 32.8 | 38.2 |  | 1.05 |
|  | Thousands | Thousands | Thousands | Thousands | Thousands |
| rking proprietors) | 88.1 | 82.8 | 78.8 |  | 2.21 |

PART A
RAILWAY LOCOMOTIVE SHOPS
Summary of returns received
TABLE 2 (A)

|  | Unit | $\underset{\substack{\text { Great } \\ \text { Britain } \\ 1948}}{ }$ | United Kingdom |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1951 | 1954 |
| establishments employing on average more than 10 PERSONS |  |  |  |  |
| Number of establishments | No. | 355 | 314 |  |
| Total value of sales and work done | \& 000 | 38,178 | 44.161 |  |
| Products on hand for sale and work in progress $\quad\left\{\begin{array}{l}\text { at beginning of year } \\ \text { change during year }\end{array}\right.$ | " | 3.281 | $\begin{array}{r}4.411 \\ \hline \text { 3. } 411\end{array}$ | - 4.274 |
| Gross out put (production) | .. | 38.239 | 44.593 | 56, 279 |
| Purchases of materials and fuel |  | 15.065 | 19.381 | 22.757 |
| Stocks of materials and fuel $\begin{aligned} & \text { at beginning of year } \\ & \text { change during year }\end{aligned}$ | ". | $\begin{array}{r}15.536 \\ +\quad 8.536 \\ \hline 2.420\end{array}$ | $\begin{array}{r}19.383 \\ +\quad 10.533 \\ \hline\end{array}$ | 12.754 -15.754 $-\quad 1085$ |
| Cost of materials and fuel used change during year | ". | 2.420 12.645 | $+\quad \begin{array}{r}1.332 \\ 18.049\end{array}$ | - ${ }^{1.108}$ |
| (tay ${ }^{\text {Payment }}$ for work done on materials given out | ". | ${ }_{94}$ | ${ }_{4}$ | 25. ${ }_{25}$ |
| Net output |  | 25,500 | 26,540 | 32.390 |
| Average number of employees $\left\{\begin{array}{l}\text { operatives } \\ \text { others }\end{array}\right.$ | No. |  |  | 55,513 |
| Total employment ${ }^{\text {a }}$ (others | . | ¢4.856 ${ }^{\text {S. }}$ | 5.386 61,456 | 51.414 61 |
| Net output per person employed | $\varepsilon$ | 393 | 432 | 527 |
| Wages and salaries $\quad\left\{\begin{array}{l}\text { of operatives } \\ \text { of others }\end{array}\right.$ | ${ }^{£} \cdot 000$ | 21.166 1.869 | 22.256 2.329 | 26.736 2.966 |
| Capital expenditure |  |  |  |  |
| New building work (b) |  | 64 | 105 |  |
| Plant and machinery $\quad\left\{\begin{array}{l}\text { acquisitions } \\ \text { disposals }\end{array}\right.$ (b) | .. | 492 19 | 349 21 | $\begin{array}{r}415 \\ 8 \\ \hline\end{array}$ |
| Vehicles $\quad\left\{\begin{array}{l}\text { acquisisitions (b) } \\ \text { disposals }\end{array}\right.$ | " | 11 | 6 | 2 |
|  |  |  |  |  |
| ESTABLISHMENTS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS <br> Number of returns <br> Total employment, including working proprietors |  |  |  |  |
|  | No. |  |  |  |
|  | .. |  |  |  |

Total employment, including working proprietors
(a) Number in week ended September 25 . 1948 . yet in production
(b) Excluding expenditure for establishments not yet

| Average number employed | $\begin{aligned} & \text { Estab- } \\ & \text { lish- } \\ & \text { ments } \end{aligned}$ | $\begin{gathered} \text { Gross } \\ \text { output } \end{gathered}$ | $\begin{gathered} \text { Net } \\ \text { output } \end{gathered}$ | Employees |  | Wages and salaries |  | Capital <br> expenditure <br> (a) | $\left\lvert\, \begin{gathered} \text { Net output } \\ \text { eer person } \\ \text { employed } \end{gathered}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Operatives | others | Operatives | Others |  |  |
|  | Number | £ ${ }^{0} 000$ | £. 000 | Number | Number | \&. 000 | \&. 000 | £. 000 | ${ }_{5}^{\text {¢ }}$ |
| 11-24 | 108 | 1.652 | 989 | 1.682 | 171 | 873 | 89 | 1 | 534 |
| 25-49 | 108 | 3,331 | 2.022 | 3.434 | 358 | 1.770 | 189 | 3 | 533 |
| 50-99 | 65 | 4.001 | 2.489 | 4.147 | 426 | 2.112 | 220 | 3 | 544 |
| 100-199 | 37 | 4,385 | 2.604 | 4.411 | 433 | 2.257 | 223 | 9 | 538 |
| 200-299 | 11 | 2.175 | 1,359 | 2.286 | 239 | 1,131 | 122 | 6 | 538 |
| 400-499 | , | 878 | 516 | 888 | 69 | 390 | 38 | 22 | 539 |
| 500-749 | 3 | 1.870 | 1.020 | 1.791 | 220 | 794 | 116 | 18 | 507 |
| 1,500-1.999 | 3 | 4.456 | 2.866 | 4,871 | 488 | 2.395 | 271 | 74 | 535 |
| $2.000-2.499$ | 2 | 4,273 | 2.458 | 4.253 | 381 | 2.015 | 186 | 36 | 530 |
| 2,500-2,999 | 1 | 2,032 | 1.323 | 2,188 | 313 | 1.069 | 167 | 40 | 529 |
| $3.000-3.999$ | 3 | 10,225 | 5.570 | 9.719 | 895 | 4.555 | 444 | 86 | 525 |
| 4.000-4.999 | 1 | 4,856 | 2,275 | 3.723 | 537 | 1,776 | 253 | 47 | 534 |
| 5,000-7.499 | 1 | 5,520 | 3,015 | 5,342 | 603 | 2,481 | 286 | 91 | 507 |
| 7.500 and over | 1 | 6,625 | 3,883 | 6.778 | 768 | 3.118 | 363 | 140 | 515 |
| Total | 346 | 56,279 | 32,390 | 55,513 | 5.901 | 26,736 | 2.966 | 575 | 527 |

(a) Capital expenditure on new building work and on acquisition of plant, machinery and venicies.

TABLE 4(A) - Analysis according to specialisation within the industry, 1954 Larger establishments in the United Kingdom
No specialisation within this industry was distinguished.
Sales (or transfers) of the principal products of the industry, including sales (or transfers) of these products by establishments classified to other industries

Larger establishments in the United Kingdom

|  | 1951 |  |  | 1954 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity |  | value | Quantity |  | Value | Entries |
|  | No. | Tons | £'000 | No. | Tons | $\varepsilon^{\prime} 000$ | Number |
| Locomotives |  |  |  |  |  |  |  |
| Complete |  |  |  |  |  |  |  |
| Steam |  |  |  | 6 |  | 44 |  |
| Under 40 tons light weight <br> T0 tons light weight and over | 28 207 | 16,243 | 150 3.059 | 184 | 14.076 | 3,530 | 6 |
| With internal combustion engines |  |  |  |  |  |  |  |
| Electric transmission | 20 | 960 | 406 | 52 | 2.428 | 1,374 |  |
| Electric (including battery types) 40 tons light weight and over | 23 | 2.021 | 659 | 6 | 612 | 229 |  |
| Parts for locomotives |  |  |  |  |  |  |  |
| Boilers |  | 3.410 | 480 24 | \} 144 | 2.091 | 408 |  |
|  |  |  |  |  | 32 | 3 | .. |
| Other parts of locomotives (a) |  | .. | 1.792 |  | $\cdots$ | 4,099 | . |
| Railmay signals (mechanical) and parts |  | 828 | ( $\begin{gathered}32(\mathrm{~b}) \\ 293\end{gathered}$ | 480 | $\stackrel{776}{ } \cdot$ | $\begin{array}{r}49 \\ 649 \\ \hline\end{array}$ |  |
| Other manufactures |  | .. | (1) |  |  | - | - |
| (84368) |  |  |  |  |  |  |  |


| TABLE 5 (A) (contd.) |
| :--- |

(a) Excluding axles. tyres and wheels.
(b) Described as railway signals, mechanical.

Sales (or transfers) of principal products of the industry by establishments lassified to other industries
Larger establishments in the United Kingdom
TABLE 6 (A)

|  | 1954 |  |  | Principalindustrieswhich produced $(a)$ |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | value | Entries |  |
|  |  | £. 000 | Number |  |
| Parts of locomotives other than boilers and superheater equipment (b) | . | 854 | 5 | 3M, 4I |
| Railway signals (mechanical) | .. | 438 | 5 | 12 C |
| Repairs to locomotives |  |  |  |  |
| Steam |  | 65 | 5 | зM |
| Internal combustion engines with electric transmission |  | 40 | .. |  |
| Electric (including battery types) |  | 19 | .. |  |
| Total |  | 1,416 | . |  |

(a) The volume number and industry references given are to the industries shown in the list at the back (b) Excluding axles. tyres and wheels.

|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | Value |
| Parts of railway carriages, rail cars, railway wagons and trucks ( $\alpha$ ) | .. | $\begin{aligned} & \hline \varepsilon^{\prime} 000 \\ & 1,396 \end{aligned}$ |
| Electrical railway signalling apparatus and telegraph and telephone parts | .. | 169 |
| Railway points, switches and crossings | . | 483 |
| Laminated springs for locomotives | .. | 112 |
| Iron castings | Th.tons |  |
| For locomotives | 12.9 | 198 |
| For the permanent way | 64.0 | 983 154 |
| For carriages and wagons | 15.1 | 232 |
| Other iron castings in the rough or machined | .. | 77 |
| Castings of brass and other copper alloys in the rough | .. | 4 |
| Repair work |  |  |
| Railway carriages, rail cars, railway wagons and trucks | .. | 248 |
| Other repair work | .. | 2.582 |
| Other products | .. | 281 |
| Scrap and waste sold |  |  |
| Scrap metals |  |  |
| Iron and steel 1 | 127.1 | 915 116 |
| Erass | 1.7 | 291 49 |
| Copper | 3.7 | 8.9 121 |
| Other | 5.7 | 1.209 215 |
| Other waste products | .. | 73 |
| Work done |  | 910 |
| Total |  | 11.646 |

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

| TABIE 9 (A) |
| :--- | ---: | ---: |

Materials (conta.
Vehicle components and accessories (contd.)
Diesel engines complete and parts thereof
Ball, roller and needle bearings and parts thereof
Traction and other electric motors and parts thereof
pumps. industrial valves and parts thereof
Finished plastics components and fittings
Electric lighting equipment not elsewhere specified Other purchased components not elsewhere specified
Replacement parts for establishments own machinery, plant
and vehicles
Consumable tools bought as replacement, including engineers
small tools. jigs. fixtures and measuring instruments Unclassified and all other purchased materials

Fuel and electricity
Coal
Liquid fuels (including creosote/pitch mixtures)
For use in internal combustion engines
Motor spirit (petrol) for use in road vehicles and
derv. fuel Other
For burning in furnaces, boilers, kilns, etc

## Gas purchased

rom Gas Boaras rom other sources,
same establishments
$\qquad$
From Electricity Boards
From other sources, including other departments of the
same establishments Total cost

| Quantity | Cost |
| :---: | :---: |
|  | $\varepsilon^{\prime} 000$ |
| .. | 1.249 |
| . | 33 |
| . | 15 |
| .. | 11 |
| $\cdots$ | 1 |
| .. | 372 |
| .. | 1.092 |
| . | 685 |
| .. | 241 |
| . | 5.325 |
| Th.tons |  |
| 120 | 386 |
| 48 | 246 |
| Th.gal. |  |
| 87 | 16 |
| 380 | 26 |
| 1.749 | 99 |
| Th.therms |  |
| 2,384 | 126 |
| 2,184 | 119 |
| Th. kWh. |  |
| 67.988 | 413 |
| 8,831 | 53 |
|  | 22.757 |

Average number of employees and wages, salaries and superannuation payments (a) Larger establishments in the United Kingdom
TABLE 10 (A) $\qquad$
$\qquad$

Average number of employee
Operatives
Total
Wages and salaries paid to
Operatives
Administrative, technical and clerical employees Total

Wages and salaries per head
Operatives
Administrati
Superannuation and other pension funds for employees
and dependents (b) Employers contributions
Employees covered
Pension, etc, payments to former employees and
dependents (b)
(a) The following persons, not included above, were also employed by larger establishments in this industry
(.other workers inciudes. for example, employees engaged in merchanting):

|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
| ${ }_{\text {Male }}^{\substack{\text { Male } \\ \text { Female }}}$ | 18818 | $\begin{array}{r} 11 \\ 274 \end{array}$ |
| Total | 271 | 285 |
| Other workers Male Female | 102 96 | 39 44 |
| Total | 198 | 83 |
| Total excluded employees | 469 | 368 |

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

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

| E 11 ( A$)$ | 1951 |  |  | Number |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1954 |  |  |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | - | - | - | - | - | - |
| Operatives | 55,468 | 421 | 55,889 | 54,935 | 407 | 55,342 |
| Administrative. technical and clerical employees | 3,829 | 1,550 | 5,379 | 4.308 | 1.602 | 5,910 |
| Total enployees | 59, 297 | 1,971 | 61,268 | 59,243 | 2.009 | 61,252 |

(84368)

## TABLE 2 ( B )

| TABLE 2 (B) |
| :--- |

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold (b) Papants to other firgs and undertakings and to firms ond separate transport organisations. For the
 cover payments for transport of both finished goods sold and materials and fuel purchased.
citan
(c) Number in week ended September 25, 1948 .
(d) Including working proprietors.
(e)
(e) Excluding expenditure for establishments not yet in production.
(f) Excluding Northern Ire land. No information about small firms was collected in Northern Ireland for 1951.

Analysis by size, 1954
Larger establishments in the United Kingdom

| Average number employed | Estab-lishments | ${ }_{\substack{\text { Gross } \\ \text { Output }}}$ | ( $\begin{gathered}\text { Net } \\ \text { output }\end{gathered}$ | Emplogees |  | Wages and salaries |  | $\underset{\substack{\text { Capital } \\ \text { expenditure } \\ \text { (a) }}}{ }$ | $\left\lvert\, \begin{aligned} & \text { Net output } \\ & \text { per persion } \\ & \text { employed } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Operatives | Others | Operatives | Others |  |  |
| 11-99 | Number | $\begin{gathered} \varepsilon \cdot 000 \\ 573 \end{gathered}$ | $£^{\prime} 0000$ | Number $289$ | Number | £. 000 <br> 128 <br> 28 | $\varepsilon^{\prime} \cdot 000$ | $\varepsilon_{7} .000$ | $\begin{gathered} \varepsilon \\ 692 \end{gathered}$ |
| 100-199 | 4 | 998 | 498 | 521 | 115 | 223 | 74 | 46 | 479 |
| 200-399 | 4 | 1.668 | 916 | 986 | 231 | 441 | 117 | 42 | 753 |
| 400-499 | 3 | 2.200 | 1.290 | 1.035 | 316 | 471 | 161 | 60 | 955 |
| 500-749 | 4 | 4,199 | 1,852 | 1,833 | 571 | 883 | 315 | 88 | 771 |
| 750 and over | 6 | 17,606 | 7.708 | 9,391 | 2,013 | 4.432 | 1.165 | 254 | 676 |
| Total | 31 | 27.245 | 12,514 | 14.055 | 3,317 | 6,578 | 1.873 | 497 | 720 |

TABLE 4(B) - 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 (B)

(a) Includes complete locomotives exported in parta
(c) Exing to the risk of disclosure of information relating to individual firms. separate particulars
(d) Amnot be given.
(d) Amount charged.
(e) Including repar tork. to steam locomotives by larger establishments in Northern Ireland classified
to other industries.

| TABLE 6 (B) |
| :--- |

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

|  | 1954 |  |
| :---: | :---: | :---: |
|  | Quantity | Value |
|  |  | £. 000 |
| Parts of railway carriages, rail cars, railway wagons and trucks (a) | .. | 181 |
| Engineering castings and forgings | .. | 140 |
| Machinery and parts |  |  |
| Agricultural, mining, roadmaking and earth moving machinery |  |  |
| Complete machines | $\cdots$ | 467 |
| Parts | .. | 131 |
| Other | .. | 486 |
| Cther engineering products | .. | 328 |
| Scrap and waste sold |  |  |
| Scrap metals |  |  |
| Iron and steel | $\cdots$ | 119 |
| Brass | . | ${ }^{81}$ |
| Copper | . | 20 |
| Other | $\cdots$ | 7 |
| Other waste products | . | 2 |
| Work done (b) | .. | 75 |
| Total |  | 2,037 |

(a) Excluding axles
(b) Amount charged.

[^1]|  | Quantity | Cost |
| :---: | :---: | :---: |
|  |  | \& 000 |
| Materials (contd.) |  |  |
| Vehicle components and accessories (contd.) |  |  |
| Boilers, boiler mountings and parts not elsewhere specified | .. | 49 |
| Diesel engines complete and parts thereof | .. | 1.041 |
| Ball, roller and needle bearings and parts thereof | .. | 231 |
| Pumps, industrial valves and parts thereof | .. | 24 |
| F.lectric lighting equipment not elsewhere specified | .. | 170 |
| other purchased components not elsewhere specified including traction and other electric motors and parts | . | 3.060 |
| Replacement parts for firms machinery, plant and vehicles | . | 396 |
| Consumable tools bought as replacement, including engineers small tools. jigs, fixtures and measuring instruments | .. | 191 |
| Unclassified and all other purchased materials | $\stackrel{.}{\text { Th. }}$ - ${ }^{\text {ans }}$ | 1.233 |
| Fuel and electricity |  |  |
| Coal | 46 | 180 |
| Coke | 16 | 93 |
| Liquid fuels (including creosote/pitch mixtures) |  |  |
| For use in internal combustion engines | .. | 25 |
| For burning in furnaces, boilers, kilns, etc. | $\begin{gathered} 3,180 \\ \text { Th.therms } \end{gathered}$ | 125 |
| Gas purchased |  |  |
| From Gas Boards and other sources, including other departments of the same firm | $\begin{array}{r} 2,173 \\ \text { Th. } \mathrm{kWh} . \end{array}$ | 94 |
| Electricity purchased |  |  |
| From Electricity Boards and other sources, including other departments of the same firm | 46,619 | 227 |
| Total cost |  | 13,321 |

TABLE 10 (B)
Larger establishments in the United Kingdom

|  | 1951 | 1954 |
| :---: | :---: | :---: |
| Average number of employees | Number | Number |
| Operatives $\begin{aligned} & \text { Odministrative, technical and clerical employees } \\ & \text { Ald }\end{aligned}$ | $\begin{array}{r} 17.011 \\ 4.284 \end{array}$ | $\begin{array}{r} 14.055 \\ 3.317 \end{array}$ |
| Total | 21.295 | 17.372 |
| Wages and salaries paid to | £. 000 | \&. 000 |
| Administrative, technical and clerical employees | $\begin{aligned} & 6.232 \\ & 1.992 \end{aligned}$ | $\begin{aligned} & 6,578 \\ & 1.873 \end{aligned}$ |
| Total | 8.224 | 8.451 |
| Wages and salaries per head | £ | $\varepsilon$ |
| Operatives <br> Administrative, technical and clerical employees | $\begin{aligned} & 366 \\ & 465 \end{aligned}$ | ${ }_{565}^{468}$ |
| Superannuation and other pension funds for employees and dependents |  | £. 000 |
| Employers' contributions | .. | 93 |
| Employees covered | .. | Number <br> 3.584 <br> 3. 58 |
| pension, etc. payments to former employees and dependents | .. | 16 |

(a) The following persons, not included above were also employed by larger establishments in this industry
('other workers includes, for example, employees engaged in merchanting):

|  | 1951 | 1954 |
| :---: | :---: | :---: |
|  | Number | Number |
|  | $120^{6}$ | ${ }_{9}^{5}$ |
| Total | 126 | 104 |
| Other workers Male Female | ${ }_{32}^{16}$ | ${ }_{33}^{26}$ |
| Total | 48 | 59 |
| Total excluded employees | 174 | 163 |

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

| TABLE 11(B) |  |  |  |  |  | Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1951 |  |  | 1954 |  |  |
|  | Males | Females | Total | Males | Females | Total |
| Working proprietors | - | - | - | - | - | - |
| Operatives | 15,932 | 809 | 16,741 | 13,579 | 320 | 13,899 |
| Administrative, technical and clerical employees | 3.191 | 1,185 | 4,376 | 2,377 | 945 | 3,322 |
| Total employees | 19,123 | 1,994 | 21,117 | 15,956 | 1.265 | 17.221 |



LIST OF INDUSTRY REPORTS

| LUME 1 | LUME 4 (contd.) | vowne 8 (contd.) |
| :---: | :---: | :---: |
| Mines | Printing and Bookbinding Machiner | Preserved Meat |
| Metalliferous Minos and | Mechanical Engineering Geen | F. Mille Products |
| arries (other than Coal. Salt | Mechanical Engineering (Repairing | G. Sugar and Gluco |
| Salt Mines. Brine Pits and | Electric Mires and Cables | Cocoa. Chooolate and Sugar |
| Slate Quarries and Mines | N. Batteries and Accumula tors | Preserved Fruit and Vegetabl |
| E. Metalliferous Mines and Quarries <br> F. Brick and Fireclay | Electric Lighting Accessories and Fittings | volume 9 |
| G. China and Earthenvare |  |  |
|  | Volume | A. Margarine <br> B. Fish Curing |
| J. Cembent | A. Tool and Implement | C. Cattle, Dog and Poultry Fods |
| L. Bualding Materials | C. Chain, Nail. Screr and | E. Starch |
| m. Manu factured fuel | D. Wiree liane 1 ire Mors Morgings | G. Miscellaneous Preserved Food |
| Lume 2 | E. Hardare. Holilow-ware, Metal | H. Browing and Malting |
| Coke Orens and By- | Brass Manu factures | J. Spirit Distilling |
| ${ }^{\text {B. D D }}$ Des an | Needles, Pins, Fish Hooks and | Spirit hectifying and |
| Fertiliser. Disin feec | Metal Smallivare | L. Soft Drinke |
| Coal Tar Products | Protographic Ins | M. Tobacco and |
| E. Chemicals (General) | Watch and Clock | M. Tobacco |
| Preparations | Precious Metals Refin | vowue 10 |
| Explosives and Firoworks |  |  |
| Paint and Varnish | vowne 6 | ${ }_{\text {A. }}^{\text {A. Furniture and Upholstery }}$ |
| K. Poop. Candes and Glycerine |  | C. Soft Furn ishings |
| ${ }_{\text {L. }}^{\text {L. }}$. Match | A. Cotton Spianing and Doubing | E. Mooden Containers and Baskets |
| N. Mineral $\mathrm{O}_{11}$ Refining | C. Foollen and Morsted | F. Paper and Boa |
|  | D. Rayon, Nylon, etc. Production E. Rayon. Nylon. Etc. Meaving. and | H. Cardboord Box, Cart |
| Q. Glue. Gum, Paste and Alliod | $\underset{\text { Slax Pro }}{\text { Silk }}$ | Fibre-borrd Packing Case |
| Plastics Mat | Linen and Soft Hemp | Bag and Kindred Industrin |
|  | Jute | Neprspaper and Perioitcal |
| F | Hosiery and Other Knitted Good | Bookbinding. Engraving |
| B. Iron and Steel (Melting and | Carpot |  |
| Rolling) | Canvas Goods and Sacks | volume 11 |
| Steel Shee to | Textile Converting | A. Rubber |
| Tinplate ${ }_{\text {Wrang }}$ Tron and Steel ${ }^{\text {Tubes }}$ | Textile Finishing | Aliied Industries |
| Non-Ferrous Metals (Smelt ting. | Textile Packing | C. Brushes and Broons |
| Rolling, etc.) | vowne 7 | E. Sports Requisites |
| Motor Vehicles and CYcle (Manufacturing) | Asbes tos | Miscellaneous Stationers |
| Motor Vehiclos and Cycles | Flock and Rog | Cinematograph Film Printin |
| (Repairing) <br> Aircraft Manufacture and Repai |  | J. Incandorcent Mantles |
| ilvay Locomotive Shops and ocomotive Manu facturing | D. Lether tranning and Dressin | VOLWE 12 |
| Ra llway Carriages and Wagons | F. Lea ther Goods | vowne 12 |
| Carts, Perambulators, etc. | H. Tair ${ }^{\text {H. }}$, | A. Building and Contracting B. Local Authorities (Building and Lemer |
|  | I. Hats. Caps and Millinery | Civil Engineering |
| volume 4 | K. Umbrella and Valking Sti | Ralinays Civil Engineeri |
| Shipbuilding and Ship Repa | L. Boot and Shoe | Onilbus Undertakings (Civil Engineering) |
| Marine Engineering | VOLWE 8 | Cana1. Dock and Harbour |
| chine Tools |  | Under takings) (Cir |
| Textile Machinery and Accostories | A. Brain Bnding Flour Con fectionery | F. Gas Supply Ind |
| Smat Arms |  | Electricity Supply Ind |
| G. Mechanical Handling | D. Bacon Curing and | H. Water Und |

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[^0]:    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.

[^1]:    TABLE 8(B) - Total make of intermediate product Larger establishments in the United Kingdom
    This table is not applicable to the industry.

