This Report on the Railway Carriages, Wagons and Trams Industry relates to establishments engaged wholly or mainly in manufacturing and repairing railway coaches (including those embodying motive units), wagons, trucks, brake vans, axle boxes, etc, tramcars and colliery and other trams and tubs, etc.

This industry corresponds to minimum list heading 385 in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 Census. The definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 66).

With the exception of Table 4, which shows separate details, this report combines the information for railway workshops and other manufacturers. Returns in full detail were obtained for all railway workshops and from other manufacturers employing twenty-five or more persons.

The output of railway workshops is valued at cost, ie a sum calculated to cover the cost of labour and materials together with such a proportion of the general establishment charges properly applicable to the output concerned but without any allowance for profit. The output of other manufacturers is, however, valued at selling prices and therefore includes profit.

There were no establishments in this industry in Northern Ireland in 1963 or 1968.

## METHOD OF CLASSIFICATION

The classification of returns to this industry followed the standard procedure as outlined in the notes which appear on page (i) but in classifying returns to the sub-divisions of the industry establishments of British Rail were allocated to the group headed 'Railway Workshops' and all other establishments to the other group.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which appear on pages (i) to (iv).

## LIST OF TABLES

| Table No. | Title | Page |
| :---: | :---: | :---: |
|  | SECTION I - Estimates for all establishments in the industry |  |
| 1 | Indust ry summary, 1963 and 1968 | 86/3 |
| 2 | Analysis by size of establishment within the industry, 1968 | 86/4 |
| 3 | Percentage analysis of employees, by age and sex, 1969 | 86/5 |
|  | SECTION II - Analysis of returns received |  |
| 4 | Analysis of larger establishments, 1963 and 1968 | 86/6 |
| 5 | Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968 | 86/7 |
| 6 | Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968 | 86/8 |
| 7 | Sales of other than principal products by larger establishments in the industry, 1963 and 1968 | 86/9 |
| 8 | Production of certain principal products of the industry by larger establ ishments, 1963 and 1968 | $\begin{aligned} & \text { DoEs } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 9 | Purchases by larger establishments of selected principal products of the industry, 1968 | $\begin{aligned} & \text { DOES } \\ & \text { NOT } \\ & \text { APPLY } \end{aligned}$ |
| 10 | Purchases by larger establishments in the industry, 1963 and 1968 | 86/10 |
| 11 | Transport costs and employment of larger establishments, 1963 and 1968 | 86/12 |
| 12 | Payments for certain services, etc by larger establishments, 1963 and 1968 | 86/13 |
| 13 | Percentage analysis of twelve-month periods covered by returns from larger establishments, 1968 | 86/13 |

Footnotes continued from page $86 / 3$.
(c) In counting the number of establishments in combined returns for 1963, certain outstations were classed as establishments which were not so regarded for 1968: the numbers therefore
are not strictly comparable for the two years. are not strictly comparable for the two years.
(d) Including services rendered to other organisations (amounts charged for hiring out plant,
(e) Adminisy or other goods, for providing transport, or for technical or other services rendered).
(e) Administrative, technical and clerical employees
(f) Excluding expenditure for establishments not yet in production.
(g) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968
United Kingdom (a) (b)

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, For 1968, estimates for establishments not making satisfactory returns and for small establishments,
from which only employment data were collected, accounted for just over 1 per cent. of the total figures in
which they were incorporated: of this, unsatisfactory returns accounted for just under 1 per cent. A similar which they were incorporated
situation existed for 1963 .
b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns in 1963 .

|  | 1963 | 1968 |
| :--- | ---: | ---: |
| Number of establishments | 29 | 29 |
| Average number employed: |  |  |
| Working proprietors | 7 | 7 |
| Other persons employed | 343 | 284 |

ootnotes continued on page $86 / 2$

TABLE 2 Analysis by size of establishment within the industry, 1968
(i) Output and employment

All establishments: United Kingdom

| Number employed on average during establi shment (a) | Estabments | $\underset{\substack{\text { Enter- } \\ \text { prises }}}{ }$ (b) | Total number employed on average during the year (a) | Gross output | Net output | Net output per head |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Number | Number | $£^{\prime} 000$ | $£^{\prime} 000$ | £ |
| 1-5 | 10 | 5 | 25 | . | . | .. |
| 6-10 | 7 | 6 | 54 |  | . |  |
| 11-24 | 12 | 9 | 211 | .. |  | . |
| 25-49 | 10 | 4 | 392 | 854 | 555 | 1,415 |
| 50-99 | 5 | 4 | 310 | 888 | 468 | 1,510 |
| 100-199 | 8 | 6 | 1,024 | 3,203 | 1,897 | 1,853 |
| 200-299 | 6 | 5 | 1,402 | 5,724 | 2,500 | 1,783 |
| 300-749 | 5 | 5 | 2, 203 | 5,600 | 2,439 | 1,107 |
| 1,000 and over | 12 | 6 | 26,846 | 63,817 | 30,502 | 1,136 |
| Unsatisfactory returns | 2 | 2 | 192 |  |  | . |
| Total | 77 | 30 | 32,659 | 81,634(c) | 39,084(c) | 1,197(c) |

(ii) Employees, wages and salaries

All establishments: United Kingdom

| Number employed on average during the year by theestabli shment (a) | Employees |  | Wages and sal aries |  | Wages and sal aries per head |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Operatives | 0 thers (d) | Operatives | 0thers (d) | Operatives | Others <br> (d) |
|  | Number | Number | £'000 | $£^{\prime} 000$ | £ | £ |
| 1-5 |  | . | . | . | . | -. |
| 6-10 | . | . | . | . | . | . |
| 11-24 | . | . | . | . | . | . |
| 25-49 | 303 | 87 | 256 | 84 | 844 | 968 |
| 50-99 | 245 | 63 | 210 | 75 | 858 | 1,198 |
| 100-199 | 823 | 194 | 824 | 202 | 1,001 | 1,041 |
| 200-299 | 1,112 | 283 | 1,024 | 289 | 921 | 1,021 |
| 300-749 | 1,831 | 372 | 1,720 | 454 | 939 | 1,221 |
| 1,000 and over | 23, 178 | 3,658 | 23,617 | 4,622 | 1,019 | 1,264 |
| Unsatisfactory returns |  |  |  |  |  | .. |
| Total | 27,878(c) | 4,747(c) | 28,080(c) | 5,827(c) | 1,007(c) | 1,228(c) |

(a) Including working proprietors.
(b) The sum of the figures for the size groups exceeds the total for the industry to size group.
(c) Including estimates for establishments employing fewer than 25 persons and fo (d) Administrative, technical and clerical employee

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)
All establishments: United Kingdon

| Ages | Males | Females | All employees |
| :--- | :---: | :---: | :---: |
| Under 18 | Per cent. | Per cent. | Per cent. |
|  | 3 | - | 3 |
|  | 92 | 5 | 97 |
|  | 95 | 5 | 100 |

Source: Department of Employment
(a) The percentages relate to the numbers employed (excludin working proprietors) at June 1969, the earliest date for
which the information is available on the basis of the which the information is available on the basis of the Standard Industrial Classification, (Revised 1968).

Footnotes to Table 4
(a) Some establishments employing fewer than 25 persons wer included in returns for larger establishments. These
amounted to 3 establ ishments in 1968 and 18 in amounted to 3 establishments in 1968 and 18 in 1963.
(b) The method of classifying returns to sub-divisions of the industry is explained in the notes.
(c) In counting the number of establishments in combined returns for 1963 , certain outstations were classed as
establishments which were not so regarded for numbers therefore are not strictly comparable for the two years.
(d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).
(e) Characteristic products relate only to sub-divisions of
(f) This is tre ratio of total sales of principal products by the industry to total sales of goods produced and workdone
(g) 0 wing to the risk of disclosure it is not possible to show figures for progress payments received from customers in he United Kingdom or oversea
(h) Administrative, technical and clerical employees
(i) Excluding expenditure for establishments not yet in
(j) Acquisitions less disposals

TABLE 4 Analysis of larger establishments, 1963 and 1968
Establishments employing 25 or more persons: Analysis of returns received, United Kingdom (a)


TABLE 5 Sales of principal products of the industry by larger establishments, including sales by establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, United Kingdon

| Analysis of returns received, United King dom |
| :--- |

Continued on next page

For notes to this table - see page 86/5

TABLE 5 (continued)

|  | 1963 |  | 1968 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Val ue | Quantity | Value | $\begin{aligned} & \text { Enter- } \\ & \text { prises } \end{aligned}$ | Entries |
| Mork done |  | £’000 |  | £'000 | Number | Number |
| Repair work done, including repairing contracts |  |  |  |  |  |  |
| Railway carriages and wagons, railcars, colliery and other trams and tubs, etc | .. | 31,288 | . | 36,392 | 13 | 42 |
| 0ther repair work |  | 736 |  | 764 | * | 18 |
| Other work done (eg machining and turning) | . | 1,632 | . | 811 | 7 | 14 |
| Total |  | 70,336 |  | 75,878 |  |  |
| Sales in other industries (see Table 6) |  | 6,257 |  | 6,141 |  |  |
| Principal products of this industry sold by establishments in the industry |  | 64,078 |  | 69,736 | 18 | 46(a) |

(a) This figure represents the total number of returns made for 1 arger establishments in this industry which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establi ishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968
Establishments employing 25 or more persons:


[^0]TABLE 7 Sales of other than principal products by larger establishments in the industry, 1963 and 1968

Establishment semploying 25 or more persons:
Analysis of returns received, United Kingdom

| Analysis of returns received, United Kingdom |  |  |
| :--- | ---: | ---: |
|  | 1963 | 1968 |
|  | Value | Value |
|  | $£ \prime 000$ | $£ ’ 000$ |
| Locomotive parts | 2,412 | 1,536 |
| Freight containers specially designed and equipped for <br> transport by rail, <br> and other products |  |  |
| Work done and repair work other thanto railway carriages, <br> wagons and trains | 3,330 | 5,311 |
| Services rendered to other organisations (a) | 777 | 558 |
| Total value of goods sold without having been subjected <br> to any manufacturing process (merchanted or factored) | 1,802 | 2,061 |
| Canteen takings | 862 | 1,776 |
|  | 18 | 58 |

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport,

TABLE 8 Production of certain principal products of the industry by larger establishment, 1963 and 1968

This table is not applicable to this industry

TABLE 9 Purchases by larger establishments of selected principa products of the industry, 1968

This table is not applicable to this industry

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968 Establ ishments employing 25 or more persons:
Analys is of returns received, United Kingdom

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Materials for use in production | Th.tons | £'000 | Th.tons | £ 000 |
| Iron castings and pig iron including refined pig iron and other irons for re-melting | 12.6 | 668(a) | 7.0 | 491 |
| Stee 1 |  |  |  |  |
| Ingots, blooms, billets, slabs (including sheet/plate mill slabs and sheet bars) | 3.3 | 159 | .. | 68 |
| Bars and rods (including wire rods), angles, shapes and sections, girders, beams, joists and pillars rolled (not fabricated), including tube rounds and squares |  |  |  |  |
|  | 40.9 | 1,899 | 37.3 . | 2,059 477 |
| Plates, 3 mm . thick and over | 40.8 | $\begin{array}{r}1,896 \\ \hline 235\end{array}$ | 26.5 .. | $\begin{array}{r}1,357 \\ \hline 225\end{array}$ |
| Sheets under 3 mm . thick (including electrical sheets) | 5.8 | 323 \{ | 3.8 | 246 219 |
| Hoop and strip (including tape of all thicknesses) | 0.8 | 46 | . | 95 |
| Forgings (except drop forgings) | 1.3 | 156 | 2.4 | 364 |
| Castings | 8.3 | 955 108 | 11.5 | $\begin{aligned} & 1,384 \\ & 1,617 \end{aligned}$ |
| Axles, tyres and wheels | 22.3 | 1,896 | 25.2 | 3,069 |
| Drop forgings | . | (b) | 4.4 | 553 |
| Iron and steel not elsewhere specified except finished parts, wire and scrap |  |  |  |  |
| Wrought tubes and fittings for wrought tubes (including welded, seamless, conduits, etc ) | 1.0 | $\begin{aligned} & 60 \\ & 53 \end{aligned}$ | 1.8 | $\begin{aligned} & 234 \\ & 132 \end{aligned}$ |
| 0ther | $\begin{array}{r}4.7 \\ . \\ \hline\end{array}$ | 218 10 | \} .. | 122 |
| Light metals and non-ferrous metal in all forms except finished parts, wire and scrap |  |  |  |  |
| Aluminium and aluminium alloys | 1.5 | $601\{$ | 0.9 | 395 211 |
| Brass and other copper alloys (including nickel silver and cupro-nickel, but excluding all other nickel alloys and cadmium copper) |  | f | 1.0 | 249 |
| Copper (including cadmium copper) |  |  | 0.7 | 297 |
| Lead and alloys of lead (excluding solder) |  |  | 0.1 | 9 |
| Nickel and nickel alloys (excluding nickel silver and cupro-nickel | .. | (c) | $\cdots$ | 4 |
| Tin |  |  | Th.ewt. 1.1 Th.tons | 71 |
| White metal alloys (ie alloys of $t$ in, lead, zinc, antimony, etc not elsewhere specified) |  |  | $\left\{\begin{array}{c}0.4 \\ \cdots\end{array}\right.$ | 73 30 |
| Springs, laminated and other types | .. | 489 | .. | 961 |
| Bolts, rivets, nuts and washers, screws, nails, tacks, etc | . | 935 | .. | 1,058 |
| Vehicle and machinery components and accessories for incorporation in firms' finished products |  |  |  |  |
| Brake gear | .. | 475 | .. | 2,197 |
| Automatic couplings | .. | 251 | . | 224 |
| Ball and roller bearings and parts thereof | . | 305 | .. | 423 |
| Traction and other electric motors and parts thereof | .. | 493 | . | 1,625 |
| Electrical equipment, including batteries and accumulators, not elsewhere specified | . | 804 | . | 1,240 |

TABLE 10 (continued)


TABLE 10 (cont inued)

|  | 1963 |  | 1968 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
| Fuel and electricity (d) (continued) | Th.therms | £'000 | Th.therms | £'000 |
| Gas | 2,997 | 189 | 3,051 | 217 |
|  | Th.kWh |  | Th. kWh |  |
| Electricity | 91,867 | 649 | 82,072 | 651 |
|  |  |  |  |  |
| All other fuels | .. | (e) | .. | 78 |
| Total cost of materials and fuel |  | 27,004 |  | 41,105 |
| Goods purchased for merchanting |  | 724 |  | 1,460 |
| Canteen purchases |  | 22 |  | 49 |
| Total cost of purchases |  | 27, 750 |  | 42,615 |

(a) Castings only.
(b) Included in 'Iron and steel not elsewhere specified except finished parts, wire and scrap (b) 1963.
(c) Included in 'All other materials for processing' in 1963
(d) Owing to the risk of disclosure of information relating to individual firms the quantity of electricity generated in 1963 , in establishments employing 25 or more persons cannot
(e) Not recorded separately in 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | Unit | 1963 | 1968 |
| :---: | :---: | :---: | :---: |
| Average number mainly employed on transport | No. | 105 | 75 |
| Transport costs |  |  |  |
| Wages and salaries | £'000 | 83 | 76 |
| Derv fuel and motor spirit | " | 43 | 118 |
| Tyres and other spare parts for road goods vehicles | " | .. | 22 |
| by road | " |  | 189 |
| Payments to other organisations for transport $\quad\left\{\begin{array}{l}\text { by rail and other } \\ \text { means excluding } \\ \text { postal services }\end{array}\right.$ | " | 326 | 134 |
| Costs of operating road goods vehicles Insurance | " | 7 | 5 |
| Vehicle licences | " | 6 | 9 |
| Depreciation | " | 37 | 52 |
| Payments to other organisations for repairs and maintenance |  | 11 | 19 |
| Total | " | 513(a) | 624 |

[^1]TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)
Establishments employing 25 or more persons:
Analysis of returns received, United Kingdom

|  | Amounts payable |  |
| :--- | ---: | ---: |
|  | 1963 | 1968 |
| Repairs and maintenance to | $£ \prime 000$ | $£ ’ 000$ |
| Buildings | 253 | 183 |
| Road goods vehicles | 11 | 19 |
| Plant, machinery and other capital equipment <br> Insurance, licensing and depreciation of road goods <br> vehicles (b) | 117 | 168 |
| Rates, excluding water rates | 50 | 66 |
| Hire of plant and machinery |  |  |
| Postage, telephone, telegrams, cables and telex (c) | 293 | 419 |
|  | 156 | 101 |
| $\quad$ Total | 84 | 101 |

(a) No deduction is made for these payments to arrive at the figures of
net output given in this report.
(b) For details see Table 11
(c) Excluding Telex for 1963.

TABLE 13 Percentage analysis of twelve-month periods covered by returns from larger establ ishments, 1968

Establ ishments employing 25 or more persons:
Analysis of returns received, United Kingdom

| Year ended | Percentage <br> of total returns received | Percentage <br> of total number employed |
| :---: | :---: | :---: |
| 1968 | Per cent. | Per cent. |
| April (a) | 0.0 | 0.0 |
| May | 0.0 | 0.0 |
| June | 6.5 | 2.5 |
| July | 0.0 | 0.0 |
| August | 0.0 | 0.0 |
| September | 6.5 | 1.9 |
| October | 0.0 | 0.0 |
| November | 0.0 | 0.0 |
| December | 50.0 | 88.5 |
| 1969 |  |  |
| January | 0.0 | 0.0 |
| February | 0.0 | 0.0 |
| March | 37.0 | 7.1 |
| April (b) | 0.0 | 0.0 |
|  | 100 | 100 |

(a) From 6 April
(b) To 5 April.

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[^0]:    (a) The references given are to the list of industries at the front of this report

[^1]:    a) Excluding tyres and
    separately for 1963

