

BOARD

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Volume 3

Trade L

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING

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).

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THREE SHILLINGS NET

In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s 0d. NET

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RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING TRADE

THIS REPORT on the Railway Locomotive Shops and Locomotive Manufacturing Trade relates to establishments engaged wholly or mainly in the manufacture of locomotives, 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 trade corresponds to minimum list headings 84 and 85 in the Standard Industrial Classification.

In the reports on the 1935 census the activities of all railway establishments engaged on productive work, i.e., civil engineering work on railway property, the manufacture and repair of locomotives, carriages, wagons and railway equipment for the permanent way, and all miscellaneous manufacturing were included in a single report. For the purpose of that report the railway companies were not required to furnish separate detailed returns on an establishment basis and, accordingly, it is not possible to reclassify the particulars for 1935 strictly in accordance with the Standard Industrial Classification. An attempt has, however, been made to compile, from the information available, figures corresponding very roughly with those for 1948. The activities of railway companies were not covered in the 1937 Inquiry.

Both for 1935 and 1948 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 a proportion of the general establishment charges properly applicable to the output concerned but without any allowance for profit. The output of other locomotive manufacturers is, however, valued at selling price and therefore includes profit.

Any establishments in Northern Ireland are excluded in 1948. A very small output in this trade by railway companies there was recorded for 1935; no production by other locomotive manufacturers was recorded there for 1937 or 1935.

RAILWAY LOCOMOTIVE SHOPS AND LOCOMOTIVE MANUFACTURING TRADE

Summary

Larger establishments

TABLE I

| | Railway loco | omotive | | Other locomotive manufacturers | | | |
|--|--------------|----------|-----------|--------------------------------|--------|--|--|
| | 1948 (a) | 1935 (b) | 1948 | 1937 | 1935 | | |
| | £'000 | £! 000 | £' 000 | £1000 | 21000 | | |
| Gross output (production) | 38,239 | 13,000 | 22,823 | 6,919 | 4,878 | | |
| Cost of materials and fuel used | 12,645 | 4, 500 | 10,852 | 3, 323 | 2, 347 | | |
| Payment for work done on materials given out | 94 | | 616 | 8 - 8 | 4 | | |
| Net output | 25, 500 | 8, 500 | 11, 355 | 3, 588 | 2, 527 | | |
| Wages and salaries of persons employed | 23,035 | •• | 7,611 | ••/ | •• | | |
| | No. | No. | No. | No. | No. | | |
| Average number of persons employed | 64,856(c) | 44,800 | 23,100(c) | 17, 212 | 13,931 | | |
| | £ | £ | £ | £ | £ | | |
| Net output per person employed | 393 | 190 | 492 | 208 | 181 | | |
| Stocks at end of year | £1000 | 000 ن | £'000 | £'000 | £'000 | | |
| Finished products and work in progress | 3,342 | •• | 9,756 | | •• | | |
| Materials and fuel | 10,955 | •• | 2,456 | •• | •• | | |
| | No. | No. | No. | No. | No. | | |
| Number of establishments | 355 | | 39 | •• | 26 | | |

(a) Great Britain only.
(b) United Kingdom.
(c) For the total number of persons employed in this trade see Table 3.

The values of gross output and of materials and fuel used are derived in the following way:-

| | Railway loco | omotive | | Other locomo | |
|---|--------------|--------------------|---------------|--------------|---------|
| | 1948 | 1935 | 1948 | 1937 | 1935 |
| Output of establishments in this trade | £'000 | £'000 | £'000 | ิฐ! 000 | £'000 |
| Total value of sales (1948) or production (1937 and 1935) | | | | | |
| Principal products (see Table 8) | 31,222 | 12, 188 | 17,244 | 5, 202 | 4, 269 |
| Other output (see Table 10) | 6,956 | 812 | 4, 354 | 1, 190 | 576 |
| Adjustment for changes of stocks and work in progress | + 61(a) | | +1,384(a) | + 527(b) | + 33(b) |
| Less payment for transport by other firms | 38, 239 | } 13 , 000{ | 22,982 158 | } 6,919 | 4,878 |
| Gross output (production) | 38,239 | 13,000 | 22,823 | 6,919 | 4,878 |
| Materials and fuel used by establishments in this trade | | | | | |
| Purchases (see Table 13) | 15,065 | 1 500 | 11,252 | 3, 323 | 2, 347 |
| Adjustment for changes in stocks | -2,420(a) | 4,500 | - 400(a) | | 2,041 |
| Materials and fuel used | 12,645 | 4,500 | 10,852 | 3, 323 | 2, 347 |
| (a) See Table 44 (b) Here in progress | | 1,000 | 10,500 | 1 3,320 | |

(a) See Table 14.

(b) Work in progress only.

DS 41121/1

Summary, 1948 Small establishments in Great Britain

TABLE 2

| | the state of the s | |
|--|--|--------------------------------|
| | Railway loco- motive shops | Other locomotive manufacturers |
| Number of returns | Soli paces | 2 |
| Average number of persons employed (a) | THE THE PARTY OF T | estern Laboures |
| Males Females | 200 75 T 900 73 | 13 |
| Total | | 13 |

(a) Including working proprietors.

Estimated average employment, 1948 All establishments in Great Britain

TARIF 2

| | The state of the s | ilway loco- tive shops | Other locomotive manufacturers |
|--|--|---------------------------|--------------------------------|
| As returned by establishments | | 1.00000 | |
| oe ar lar lar sor | 70 | | |
| Employing on average more than ten | 344 | | 07.400 |
| persons (a) | - 88 | 64, 856 | 23, 100 |
| Employing on average ten persons or less (b) | 750 | | 785 |
| 1622 (D) | | | 13 |
| | | 64,856 | 23, 113 |
| | 08 141 | 1 200 | 0 |
| Estimated average employment in establishments not making satisfactory | 000008 | | 1.00 |
| returns | | | |
| Average employment in all establishments | AR CE | 64.856 | 23, 113 |

(a) See Tables 1 and 15.
(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

(i) Railway locomotive shops

TABLE 4

| INDEL T | | | | | | | A STATE OF THE PARTY OF THE PAR | printer and the second | |
|--------------------|------------|---------|---------|----------|---------|-------------|--|---|--|
| Average | Establish- | Gross | Net | Persons | | Remuneratio | n | Net output per person | |
| number employed | ments | output | output | employed | Wages | Salaries | Total | employed | |
| | No. | £! 000 | ล' 000 | No. | £' 000 | £1000 | £¹ 000 | 3 | |
| 11-24 | 142 | 1, 115 | 767 | 1,921 | 730 | 59 | 789 | 399 | |
| 25-49 | 86 | 1,714 | 1,214 | 3,003 | 1, 124 | 94 | 1,219 | 404 | |
| 50-99 | 58 | 2, 335 | 1,635 | 4, 137 | 1,519 | 121 | 1,640 | 395 | |
| 100-199 | 39 | 2,992 | 2,099 | 5, 275 | 1,953 | 151 | 2, 104 | 398 | |
| 200 and over | 30 | 30,083 | 19,785 | 50, 520 | 15,839 | 1,444 | 17, 283 | 392 | |
| Total | 355 | 38, 239 | 25, 500 | 64,856 | 21, 166 | 1,869 | 23, 035 | 393 | |

(ii) Other locomotive manufacturers

TABLE 4 (contd.)

| Average | Establish- | Gross | Net | Persons | F | Remuneration | h a steat | Net output per person |
|--------------------|------------|---------|--------|----------|--------|--------------|-----------|--------------------------|
| number employed | ments | output | output | employed | Wages | Salaries | Total | employed |
| | No. | £1000 | £' 000 | No. | £' 000 | ฐา 000 | £'000 | \$ |
| 11-49 | 9 | 225 | 97 | 162 | 36 | 15 | 50 | 599 |
| 50-99 | 7 | 695 | 283 | 529 | 104 | 56 | 160 | 536 |
| 100-199 | 4 | 615 | 337 | 558 | 123 | 50 | 173 | 604 |
| 200-299 | 5 | 981 | 605 | 1, 140 | 277 | 77 | 354 | 530 |
| 300-749 | 6 | 3, 434 | 1,656 | 2,962 | 721 | 230 | 951 | 559 |
| 750 and over | 8 | 16,872 | 8, 377 | 17,749 | 4,649 | 1, 275 | 5,924 | 472 |
| Total | 39 | 22, 823 | 11,355 | 23, 100 | 5,909 | 1,702 | 7,611 | 492 |

Analysis by standard region, 1948 Larger establishments in Great Britain (i) Railway locomotive shops

TABLE 5

| TABLE 5 | TABLE 5 | | | | | | | | | |
|--|------------|---------|---------|---------------------|----------------|---------|--------------|---------|--|--|
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Establish- | Gross | Net o | output | Persons | F | Remuneration | 2-326AT | | |
| Region Region | ments | output | Value | Percentage of total | employed | Wages | Salaries | Total | | |
| LafoT seinal | No. | £' 000 | £1000 | -6, 001.53 | No. | £! 000 | £' 000 | £'000 | | |
| England | 000 13 | No. | | 00019 | 500 12 | VOTE: | | | | |
| Northern | 32 | 3, 311 | 2, 361 | 9.3 | 5,722 | 2,014 | 101 | 2,115 | | |
| East and West Ridings of Yorkshire | 38 | 3, 364 | 2, 166 | 8.5 | 5 , 499 | 1,818 | 128 | 1,947 | | |
| North Midland | 36 | 4, 126 | 2, 437 | 9.6 | 6, 549 | 2,033 | 244 | 2, 277 | | |
| Eastern | 18 | 462 | 346 | 1.4 | 785 | 287 | 19 | 307 | | |
| London and South Eastern | 31 | 4, 170 | 2,935 | 11.5 | 6,942 | 2, 392 | 211 | 2,603 | | |
| Southern | 8 | 1,661 | 1, 107 | 4.3 | 2, 489 | 828 | 81 | 909 | | |
| South Western | 20 | 4,821 | 2,998 | 11.8 | 8, 139 | 2, 459 | 276 | 2,735 | | |
| Midland | 24 | 1, 145 | 812 | 3.2 | 1,970 | 713 | 57 | 769 | | |
| North Western | 60 | 9,837 | 6, 483 | 25.4 | 16,311 | 5, 111 | 453 | 5, 564 | | |
| Total England | 267 | 32,897 | 21, 645 | 84.9 | 54, 406 | 17,655 | 1,570 | 19,225 | | |
| Wales | 43 | 1, 148 | 851 | 3.3 | 2, 279 | 753 | 65 | 818 | | |
| Scotland | 45 | 4, 194 | 3,004 | 11.8 | 8,171 | 2,758 | 235 | 2,992 | | |
| Great Britain | 355 | 38, 239 | 25, 500 | 100.0 | 64,856 | 21, 166 | 1,869 | 23, 035 | | |
| | | | | | | | | | | |

Sales (or production) of the principal products of the trade, including sales (or production) of these products by Establishments classified to other trades

Larger establishments

(i) Railway establishments

TABLE 8

| TABLE 8 | | | | | | | |
|--|-----|--------------------|-------------------|---------|---------|---------------------|----------------|
| | | | 1948 (a) Sales | | | 1935 Produc | |
| torism times been a live and the live | Qu | antity | Value (c) | Entries | Qu | antity | Value (c) |
| Locomotives, rail | No. | Tons | £1 000 | No. | No. | Tons | £1 000 |
| Main line | | 251 | | 4 | | 3. | THE |
| Steam | 272 | 23,846 | 3, 427 | •• | 375 | 26,270 | 1,767 |
| Electric | 1 | 52 | 20 | •• | - | SWITE | girleni 42 |
| Shunting (railway) | | SES | | a di | | | madde 7 |
| Steam | 27 | 1,053 | 140 | | | MERCOOK- | ionii- |
| Diesel-electric | 7 | 305 | 79 | 121 | | 3,300 ,=3 | 17501-179 |
| Boilers for locomotives | 270 | 3,812 | 456 | } | h | 2 100 | ELICITE . |
| Other perts of locations are all and | 16 | 5 200 | 20 |) | | 73,626 | 2,654 |
| Other parts of locomotives, except axles, tyres and wheels | •• | | 861 | •• | | Land Com | 533 |
| Railway signals (mechanical) (d) | | •• | 452 | 7 | | 100001 | 174(e) |
| Repair work | | 987,1 | | | | 22 las | |
| Locomotives, rail | | 000 | 200 0 | | | | and section |
| Steam | | 487 ₀₈₀ | 25,941 | 24 | | 120, 121 | 7,015 |
| Diesel, mechanical | | eriges p | 3 | •• | | in series | and the second |
| Diesel-electric | | i spussi | 34 | 6 | | | - |
| Electric | | and Mag | 1 | | CO ESTA | (b) | 4 |
| Other | | The later of | 17 | 8 | 100 | - 81 | 41 |
| Work done for the trade or on commission | | 7 344 4 | 11 | ionut. | | | ejelqn=0 |
| Total | | 861818B 1 | 31, 461 | •• | | | 12, 188 |
| Less sales (or production) in other trades (see Table 9(1)) | | | 238 | bae | abni | | Stars trac |
| Tetal principal products of this trade sold or made by establishments in the trade | | | 31,222 | 24 | tol) | BBK1300 is: BBC: | 12, 188 |

(ii) Other locomotive manufacturers

TABLE 5 (contd.)

| Region | TABLE 5 (contd. | J. Commission | | | | | | | AND THE RESIDENCE OF THE PARTY |
|---|-----------------|--|-----------------|--------|--|---------|--------|------------|---|
| Region | - Hochiel | Detablish | Cross | Net o | utput | Persons | Re | muneration | toes Logo. |
| England and Scotland East and West Ridings of Yorkshire | Region | | | Value | Control of the Contro | | Wages | Salaries | Total |
| East and West Ridings of Yorkshire 4 1,164 589 5.2 1,255 292 95 387 London and South Eastern 7 639 355 3.1 611 134 70 204 Midland 4 517 247 2.2 528 126 34 160 North Western 10 6,881 3,426 30.2 6,743 1,834 430 2,263 North Midland; Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | | No. | £' 000 | £1000 | | No. | £1 000 | £1000 | इ। ००० |
| East and West Ridings of Yorkshire | | Pros | 6,722 | | 188.5 | 1 18 .8 | | 11.00 | |
| Yorkshire 4 1,164 589 5.2 1,255 292 95 387 London and South Eastern 7 639 355 3.1 611 134 70 204 Midland 4 517 247 2.2 528 126 34 180 North Western 10 6,881 3,426 30.2 6,743 1,834 430 2,263 North Midland; Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales - | | 1 80 | | | | Lugar | | 15.030 | |
| London and South Eastern 7 639 355 3.1 611 134 70 204 Midland 4 517 247 2.2 528 126 34 160 North Western 10 6,881 3,426 30.2 6,743 1,834 430 2,283 North Midland; Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | | | 1 164 | 589 | | 1, 255 | 292 | 95 | 387 |
| South Eastern 7 639 355 3.1 611 134 70 204 Midland 4 517 247 2.2 528 126 34 160 North Western 10 6,881 3,426 30.2 6,743 1,834 430 2,263 North Midland; Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales - | IUIRSIIIIE | 580.8 | 1,104 | 8.8 | 1754 B | 081.4 | 36 | dand | H. KUTTOM. |
| Midland 4 517 247 2.2 560 185 North Western 10 6,881 3,426 30.2 6,743 1,834 430 2,263 North Midland; Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales - </td <td></td> <td>7</td> <td>639</td> <td>355</td> <td>3.1</td> <td>611</td> <td>134</td> <td>70</td> <td>204</td> | | 7 | 639 | 355 | 3.1 | 611 | 134 | 70 | 204 |
| North Midland; Eastern; Southern; and South Western Northern; and Scotland 7 | Midland | 4 | 517 | 247 | 2.2 | 528 | 126 | 34 | 160 |
| Eastern; Southern; and South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | North Western | 10 | 6,881 | 3, 426 | 30.2 | 6,743 | 1,834 | 430 | 2, 263 |
| South Western 7 5,430 2,709 23.9 4,503 988 538 1,526 Northern; and Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | Eastern; | 954.8 | -851_6 | 10.6 | 599 3 | 4,821 | 100 | mate | r Kation |
| Scotland 7 8,192 4,030 35.5 9,460 2,535 536 3,071 Total England and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | | | 5, 430 | 2,709 | 23.9 | 4,503 | 988 | 538 | 1,526 |
| and Scotland 39 22,823 11,355 100.0 23,100 5,909 1,702 7,611 Wales | | A CONTRACTOR OF THE PARTY OF TH | 8, 192 | 4,030 | 35.5 | 9,460 | 2, 535 | 536 | 3,071 |
| Wales 7 611 | | | 22,823 | 11,355 | 100.0 | 23, 100 | 5,909 | 1,702 | 7,611 |
| 7 100 5 000 1 702 7 611 | Wales | 537 | 010 - 18 | 8-1 | -39 | 1 68.70 | 870 | - | \$61.54 |
| | | 39 | 22, 823 | | 100.0 | 23, 100 | 5,909 | 1,702 | 7,611 |

TABLE 6 - Analysis according to specialisation within the trade, 1948

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

(ii) Other establishments to be to b

TARIF & (contd.)

| TABLE 8 (contd.) | soberi | redio | of beit! | seelo e | t nome a | illdasa | 3 | | | | |
|--|--------|-----------|----------------|----------|----------------|------------------|------------|----------|--------------------|-------------------|--|
| | | | 1948 Sales | fee Tag | | 1937 Producti | on | I | 1935 Production | n | |
| | Quan | tity | Value | Entries | Qua | antity | Value | Quar | ntity | value | |
| Locomotives, rail | No. | Tons | £'C00 | No. | No. | Tons | £'000 | No. | Tons | £' CCO | |
| Main line (f) | ting (| alue (c | To Ly man | | | | Augus 1 | Salani | | | |
| Steam | 372 | 35, 889 | 7,313 | .6M · | 290 | 23,936 | 1,835 | 342 | 29,510 | 1,885 | |
| Electric | 13 | 867 | 251 | |) | . 504 | 4.50 | 4.0 | anii. | 11eM | |
| Other 648 888 888 | - | 754 A- | 25,7346 | 2002 - | } 74 | 1,521 | 158 | 16 | 433 | 69 | |
| Shunting (railway) | | 08 | | | | | | | olalos | C3 | |
| Steam | 18 | 754 | 252 | •• | | | (g) | tigavill | ar) yakı | (g) | |
| Diesel, mechanical | 54 | out . | 267 | 12 ·• | } •• | 1. | (8) | •• | meė | (8) | |
| Industrial, contractors' and light railway | | st. | 808 | 9 | | 9 | 386 | oluje | eis-iess | ed _{LBO} | |
| Steam | 99 | 2,178 | 481 | 7 | 586 | 5, 184 | 505 | 357 | 2.641 | 239 | |
| Other and unclassified | 786 | 4,892 | 1,253 | 12 | 500 | 5, 104 | te sevido | 207 | 10.81780 | Tendo | |
| Boilers for locomotives | 202 | 2,722 | 549 | 15 | | 2,936 | 253 | | 9, 487 | 637 | |
| Other parts of locomotives, except axles, tyres and wheels | •• | 10,509 | 1,766 2,045 | 75 { | •• | 5,860 | 514 254 | | xitow | 216 | |
| Railway signals { (mechanical) (d) | | 7,085 | 460 457 | } 19 | | | | 11.83 | asvijom - ass | 1000 | |
| Turntables (d) | • | 914 | 76 11 | 9 | | 4, 146 | 211 | o Livelo | 3, 286 | 173 931 | |
| Brake gear and automatic { couplings (d) | ••• | 1,060 | 142 814 | 7 | | | 1. | | ofutoe | 18 | |
| Road rollers | | 71 | | | | | | | 150 | 10 | |
| Complete | 1,650 | 8,955 | 2,442 | 7 | 854 | 4, 387 | 436 | 625 | 3, 196 | 262 | |
| Parts | •• | 104 48 | 613(h) | 14 { | ••• | 708 | 67 26 | | fero | 72 | |
| Steam traction engines and steam wagons (d) | | 888 | _ | - | •• | •• | 50(1) | 27 283 | esband | 39(1) | |
| Model locomotives (for exhibition, etc. purposes - not toys) and | | 889,15 | | Azalas | etnse Alexa | and no | (a) | TO BE | trade so | (g) | |
| parts thereof (d)(j) | • • | List Cult | 4 | opation) | •• | e Krass | (g) | | • | (8) | |

TARLE & (contd.)

| | | 1948 Sales | | 1937 Production | | 1935 Production | |
|--|----------|---------------|------------|--|--------------|-------------------------------|-----------------|
| | Quantity | Value | Entries | Quantity | Value | Quantity | Value |
| | | £' 000 | No. | | £'000 | | £' 000 |
| Repair work (k) | | | 5172 JESTE | - Tanaifed | Togethe - 18 | officiale of | eletanai |
| Locomotives, rail | | | | | | 2.0 | and one |
| Steam | | 1, 116 | 18 | The state of the s | (leckeds) | es) :8 Sampia - ans -san s | rad arow |
| Diesel, mechanical | 45 38 | 32 | 5 | | | | 103:77 |
| Other and unclassified | | 77 | 25 | } | 187 | | 93 |
| Other repair work and work done for the trade or on | isbaents | r establ | ii) otne | 0 1 12 | | (canta) | TABLE, S |
| commission | | 97 | 15 | J | | | |
| Total Total | Surgres | 20, 519 | traeun i | | 5,812 | | 4,616 |
| Less sales (or production) in | N031 | 000 12 | andi | | | fire past | agasol i |
| other trades (see Table 9(11)) | | 3, 275 | | | 610 | ant i a | 347 |
| Total principal products of this trade sold or made by establishments in the | | | - | | | Seller sa | reson Shanks |
| trade | | 17,244 | 31 | | 5, 202 | anden : . | 4,269 |

(a) Great Britain only.

(b) United Kingdom.

(c) Valued at cost in both years, i.e., sums calculated to cover the cost of labour and materials, together with the proportion of establishment charges properly attributable to the work carried out.

So far as recorded separately.

Recorded as "Signals, signal boxes, etc."

For 1937 and 1935 recorded as main line (standard gauge) locomotives and included shunting locomotives.
Not recorded separately.

Including parts of steam wagons, so far as recorded separately.

Including parts.

For toy locomotives see the Toys and Games Trade (Volume 11, Trade D).

(k) Amount charged in 1948 and amount received in 1937 and 1935.

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

(i) Railway establishments (a)

| TABLE 9 | | | |
|--|----------|---------------|-----------------|
| s Entrice Countity Value Quagular Value | | 1948 Sales | Bannier - North |
| | Quantity | Value | Entries |
| | | £1 000 | No. |
| Parts of locomotives, except boilers, axles, tyres | | | |
| and wheels | | 28 | Localityes, re |
| Railway signals (mechanical) | 1 | 200 | 6 |
| Work done for the trade or on commission | 12.4 | 11 | •• |
| Total | | 238 | |
| | | hol3 tocal | |

(ii) Other establishments

| TABLE 9 (contd.) | (11) Other | | | | alm | ow bats : | ATOW TI | agen | rentro |
|---|----------------|---------------|--|--|------------------|-----------------|---------------------------|----------------------------|--|
| | 1 35 3 | 1948 Sales | | | 193 Produc | | F | 193 roduc | |
| 8,812 | Quantity | Value | Entries | Quan | tity | Value | Quan | ntity | Value |
| Locomotives, rail | Tons | £'000 | No. | No. | Tons | £1000 | No. | Tons | £' 000 |
| Main line Steam | _ | 348 % | - | 5 | 252 | 19 | aens | 0 16H | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Other | - | - | - | 24 | 377 | 64 | 8 | 84 | 13 |
| Shunting (railway) | | | | | 91 | an ac b | toa eb | ent al | |
| Diesel, mechanical | | 17,846 | | | | | | abs | |
| Industrial, contractors' and light railway | | 775 | 10 | 283 | 1, 445 | 1 65(b) | 133 | 633 | 69 (b) |
| Boilers for locomotives | d to cevil the | alcular | atala . | | er poster il | | 1203 | a hairi | |
| Other parts of locomotives (except axles, tyres and wheels), and road rollers and parts thereof | 3,914 | 1,032 | 0 200 0 0 000 0 0 000 0 0 000 0 | 1,9 | eganad ega le | 169(c) 61 | oper a | ons 144 | 87(c) 93) |
| Railway signals (mechanical), turntables, brake gear and automatic couplings | { 7,447 •• | 488 245 | 28 { | I DATE OF THE PARTY OF THE PART | 82 | 37 45 | 1789 8: 20001 20001 | eludio elodio c bej. | nI (d) |
| Steam traction engines and steam wag | cons - | - | - | | •• | 50 | | •• | 39 |
| Model locomotives (for exhibition, e purposes - not toys) and parts thereof | tc. | 4 | | | _ | - | | _ | |
| Repair work (d) | | | | | | - MORTH | | | |
| Locomotives, rail | | 79 | 24 | | | | | | 21 |
| Other repair work | | 22 | 5 | | | | | | 21 |
| Total | | 3, 275 | •• | | | 610 | 15.3 | | 347 |

⁽a) Comparable figures for 1935 are not available as the railway companies were not required to furnish returns on an establishment basis. See introductory notes.

(b) Excluding boilers for locomotives.

(c) Including boilers for locomotives.

(d) Amount charged in 1948 and amount received in 1935.

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Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

| TABLE 10 | | | | | | | | |
|--|----------------------------|--|---------------------|--------------|---|--|--|--|
| Other locomotive manufacturers | Railway lo | | Ot. | her locomot | ive manufact | re manufacturers | | |
| 1948 1937 1935 Sales Production Production | 194 Sale | THE RESERVE OF THE PERSON OF T | | .948 ales | 1937 Production | 1935 Production | | |
| EDISORDIA HOLDONIA SATE | Quantity | Value | Quantit | Value | Value | Value | | |
| anav ausv | Tons | £! 000 | Tons | £'000 | £1 000 | £'000 | | |
| Railway points, switches and crossings | 200 13 | 321 | _ | - | - | - | | |
| | 18.049 | 174 |) _ | | - (************************************ | P. 7.8 (2011) | | |
| Railway chairs | 909 | 49 | | | | 38933 | | |
| Railway carriages, wagons and trucks, and parts thereof (except axles, tyres and wheels) | 768 | 108 13(b) | 460 | 116 51 | } 171 | 49 | | |
| Engineering castings | 36 | 72 | • • | 32 | products | Lasw Toda O | | |
| Other engineering products | | 117 | • | 71 | (c) | (c) | | |
| Electrical goods and appliances | 313.8 | 113 | | 732 | | Mork done | | |
| Machinery and parts | 889.8 | | | | | Lagor | | |
| Boilers, (other than for locomotives) and boiler-house plant | is elder_it nown in Tal | ate_to t | ngongge W eldeli | 458 | 80 | 14 | | |
| | North dens | codds km | No. | or around so | is it was a | (c) limited | | |
| | | ſ | H. P. | 150 | | The same of the sa | | |
| Prime movers | - | -) | 11,660 | 1/ 1- | | erot erolining | | |
| | | | | | | | | |
| | | | Tons | | 294 | 321 | | |
| Agricultural, mining, road-making and earth moving machinery | _ | | 1,79 | 1 107 | i det | 100 | | |
| Other | _ | | 3,02 | AMO | | TORNAL BOYS | | |
| Oil refining | | 54 | | | - | | | |
| Scrap and waste sold | | | | | | | | |
| Scrap metals | Th. tons | | Th. to | ns | | | | |
| Iron and steel | 171.8 | 873 | 24. | 4 79 | 61 | 27 | | |
| | A Jacob | | | | | | | |
| | 1 | | | | | 3773232 (33) | | |

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Analysis of sales, 1948

Larger establishments in Great Britain

TABLE II

| TABLE 10 (contd.) | | | | | processory and the second seco | | | and the state of t |
|--------------------------|-------------|---------|---------------|----------|--|-------------|--------------------|--|
| ve manufacturers | | ия о | Railway lo | | Oth | er locomot | ive manufact | urers |
| | | 1848 | | .8 es | 194 Sal | | 1937 Production | 1935 Production |
| | Value de la | ga Lain | Quantity | Value | Quantity | Value | Value | Value |
| Scrap and waste sold (co | ontd.) | enc | Th. tons | £' 000 | | £! 000 | £1 000 | £' 000 |
| Scrap metals (contd.) | | | isa | | nea | | ts, switches | Railvay poin |
| Brass | | | 5.2 | 508 | | 30 | 100 | Failway chai |
| Copper | | | 4.9 | 531 | 04 • · · ai | 18 | 30 | 12 |
| Other | | | (*181 | 585 | •• | 27 | (21990 | bas 202vd |
| Other waste products | | | | 25 | | 2 | agnitanes (| ndiffication entreasing |
| Other goods | | | -744 | 1 | •• | 415 | 554 | 153 |
| Work done | | | Walter States | 3,414 | | 243(d) | J. man aires | TANKS TO STATE OF THE STATE OF |
| Total | | | | 6,956 | | 4, 354 | 1,190 | 576 |

(a) For 1935, details of production appropriate to this table are not available (see introductory notes). In addition to the details available which are shown in Table 8, other output for that year is estimated as £812,000.

(b) Parts only.
(c) Included in the figure shown for "other goods and work done".
(d) Amount charged.

| | | locomotive ops | Other lo | |
|--|-------------------|---------------------------------|----------------|---------------------------------|
| 200.18 | Sales | Percentage of total sales | Sales | Percentage of total sales |
| A CONTRACTOR OF THE PARTY OF TH | £1 000 | | £! 000 | |
| Sales (or transfers) to other organisations under the same control | 6,844 | 78•1 | 638 | 3.2 |
| Sales to independent buyers | A BERT | | | a usadia |
| Exports invoiced directly overseas | 1 1 1 1 1 1 1 1 1 | - | 6, 196 | 30.8 |
| Exports invoiced to Crown Agents and purchasing houses in this country of individual firms and governments abroad | A SEL | 10914 0 | 5 , 618 | 27.9 |
| His Majesty's Government and Local Authorities (other than productive establishments) | _ | | 805 | 4.0 |
| Manufacturers, repairers, builders, mines, public utilities, and transport and other productive undertakings | 478 | 5.4 | 6,347(a) | 31.5 |
| Wholesalers, merchants and other agents for resale | 1,446 | 16.5 | 398(p) | 2.0 |
| Retailers, including multiple shops, caterers and N.A.A.F.I., for resale | | - |) | |
| Other businesses (including farmers) and institutions of all kinds | serve per ru | inter to street | 130 | 0.6 |
| Members of the public, including employees | 1 | | of delignous s | |
| Total sales to independent buyers | 1,924 | 21.9 | 19, 495 | 96.8 |
| Total | 8,768 | 100.0 | 20, 133 | 100.0 |

(a) Including sales to British Railways.
(b) Of this total £330,000 was recorded as divided between £166,000 for export and £164,000 for other sales.

Production, exports and imports of certain principal products (a)

TABLE 12

| IADLE 12 | | | | | | | |
|--|----------------|------------|------------------------|------------------------|----------------------|-----------------------|-----------------|
| svilennose denio | TENETH | Producti | on (b)(c) | Expor | ts (d) | Reta impor | ined ts (e) |
| Locomotives, rail Main line and shunting locomotives | 20 500 | No. | £1 000 | No. | a' 000 | No. | £' 000 |
| Electric (including diesel-electric) | { 1948 1935 | 21 | 349 | 44 | 1, 160 51 | - | - |
| Steam | 1948 | 689 | 11, 131 | 280 | 5, 163 | | J 19 - 0 |
| Diesel, mechanical | 1948 | 54 | 267 | 27 | 276 | beau-files | - |
| Total | { 1948 1935 | 764 733 | 11,748 3,721 | 351 141 | 6,599 800 | - 1 | 5 |
| Industrial, contractors' and light railway | { 1948 1935 | 885 357 | Tons 7,070 2,641 | 674 309 | Tons 4,418 611 | 1 8 | Tons 3 21 |
| Parts of locomotives | | | £1000 | iscel bu | £1 000 | en alles Look asia | £1000 |
| Boilers | 1948 | 488 | 1,026 | 190 | 480 | | |
| Other parts, except axles, tyres, wheels and electric motors | 1948 | • • | 4,672 | 5166,110 518 518 | 2,005 | } •• | 264 |
| Total parts of locomotives | { 1948 1935 | •• | 5, 698 4, 040 | 10.00 | 2,485 653 | • • | 264 41 |
| Road rollers and parts | { 1948 1937 | ••• | 3,055(f) 529 | rem. · · · in | 1,891 210 | | 6 |

- (a) As output recorded in 1937 was largely incomplete, comparison is made with 1935, except for road-rollers, exports and imports of which were not recorded separately in 1935. Figures of sales (or production) refer only to larger establishments in the relevant years. All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.
- (b) Sales in 1948 and production for sale in 1937 and 1935.
- (c) Including sales (or production) by establishments classified to other trades.
- (d) Valued f.o.b.
- (e) Valued c.i.f.
- (f) Including parts of steam wagons.

Purchased materials and fuel Larger establishments

TABLE 13

| 3762 7876 | Railway lo | | 0. | ther loco | motive man | ufacture | rs | |
|--|--------------------|-----------------|--------------------|-----------|------------|---------------------|---|---------|
| . Elstrater because to esse. | 19 | 948 | 19 | 48 | 193 | 7 | 1938 | |
| sec Antimers sect Anti- | Materia fuel pu | ls and irchased | Materia fuel pu | | Usage of | purchase and fue | ed materia | ls |
| espre sancars overs care | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |
| | Th. tons | £'000 | Th.tons | £'000 | Th. tons | £!000 | Th. tons | £'000 |
| Materials . | 246 | | Tee il | 14801 | | 15 1 GE 2 | | |
| Iron and steel | 4.914 | |) eos | 238 | Tigeo. | | | |
| Bars and rods | | | A. Sansai | | | | | |
| Alloy steel | 2.9 | 129 | 2.5 | 150 | 9.6 | 125 | 7.8 | 84 |
| Iron and non-alloy steel | 29.3 | 725 | 19.1 | 483 | J | 120 | 7.0 | 04 |
| Plates, sheets and strip | | | | 200 | | | | |
| Alloy steel | 3.0 | 59(b) | 2.5 | 78 (b) | | | Eocus | |
| Iron and non-alloy steel | 28.6 | 593 | 26.6 | 535 | 15.3 | 193 | 13.9 | 140 |
| Wrought tubes of iron and non-alloy steel | 0.6 | 47 18 | 1.4 | 135 | 1.5 | 64 | . 1.4 | 56 |
| Castings in the rough (c) | | | | Litaria | | | J. Deside Ca | Tree. |
| Iron | 35.5 | 742 | 12.0 | 696 | 5.7 | 130 | 5.9 | 112 |
| . Alloy steel | 2.5 | 52 | 0.9 | 188 | | | | |
| Non-alloy steel | 1.4 | 122 | 5.9 | 536 | 6.1 | 194 | 6.9 | 202 |
| Machined castings, iron and steel | 1.5 | 152 | 0.6 | 125 | •• | (d) | estan bas | (d) |
| Forgings in the rough (c) | | 3.0 | 1 407 | | Ca 1 | | | |
| Alloy steel | Tally and | 1 | 0.2 | 21 | | | | 440 |
| Iron and non-alloy steel | 7.3 | 227 | 6.0 | 283 | 4.5 | 95 | 6.9 | 112 |
| Pig iron | 1.0 | (d) | | (d) | 10.2 | 60 | 8.8 | 45 |
| Other descriptions, except finished parts | 11 3 35 | V45 | | | | | added of | CALCA |
| Alloy steel | | 1 | - 1 | 12 | | 4.04 | | (4) |
| Iron and non-alloy steel | 23.8 | 302 { | 6.1 | 93 128 | 6.9 | 101 | 2196. • • • • • • • • • • • • • • • • • • • | (d) |
| Brass (including all alloys of copper but excluding nickel | Th.cwts. | | Th.cwts. | | Th.cwts. | ecopes o | Th.cwts. | TELETO. |
| alloys other than nickel silver) in all forms, except finished parts | 113.1 | 823 { | 28.8 | 259 65 | 47.9 | 195(e) | 27•4 | 94(f) |
| DS 41121/1 | | | | | | | | E14 80 |

TABLE 13 (contd.)

| TABLE 13 (CONTEST) | | anadis I I | | | | | | | | |
|--|-----------------------------|------------|----------------------|-----------|--|--------------|--|------------------|--|--|
| | Railway lo | | C | ther lo | comotive m | anufactu | rers | PARKE 1:3 | | |
| eranulaalumam evijam | 194 | 18 | . 194 | 8 | 19 | 37 | 193 | 5 | | |
| | Material fuel pur | | Material fuel pur | | Usage | | ased mater | ials | | |
| | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | | |
| Materials (contd.) | Th.cwts. | £'000 | Th.cwts. | £'000 | Th.cwts. | £'000 | Th.cwts. | £'000 | | |
| Copper Co | 00012 | TH. Cons | | anoi | 22 | | | | | |
| Plates, sheets and strip | 138.1 | 993 | 25.9 | 245 | 17.0 | 87 | 41.2 | 126 | | |
| Other descriptions, except finished parts | 92.5 | 804 { | 15.0 | 110 12 | 11.9 | 42 | Losde t | 245 11675 S | | |
| Tin in blocks, ingots, bars and slabs | 7.1 | 188 | 2.0 | 52 | 1.8 | 20 | 1.5 | 17 | | |
| Timber (including wood for packing cases) | Th.cu.ft. | 11.62 | Th.cu.ft. | | | 13 WILL | mon bas t | 041 | | |
| Hardwood | 5.4 Stds. | 4 2 | 23.2 Stds. | 20 | | | 10002 40 | | | |
| Softwood | 339 | 29 { | 1,531 | 109 22 |] | 35 | loon but s | (d) | | |
| Consumable tools bought as replacement | 135 | 317 | | 228 | • • | 30 | | -100 | | |
| Paint, enamel and varnish | Th.galls. 65.4 No. of | 48 | Th. galls. 47.9 | 31 25 | | 1000 | | | | |
| Wheels and axles, complete | sets 185 Th.tons | 16 | Th. tons | (g) | | | of totis- | for a | | |
| Tyres and axles | 20.5 | 888 { | 4.2 | 181 | | TOTAL CES | Trans ber | Citable | | |
| Steel springs, laminated or spiral | 2.1 | 177 { | 0.4 | 46 64 | | danca | eds ni ego | (prot | | |
| Superheater equipment, including elements | 3.1 | 335 { | 0.5 | 84 119 | ••• | (d) | Teetra vo | (d) | | |
| Electric lighting equipment | 20. | 95 | | 84 | | | 700 | 130 | | |
| Boiler tubes | 11.1 No. | 785 | 3.0 No. | - 255 | A subject of the subj | pas, saq | descripti | reito | | |
| Diesel engines, complete | 5 | 47 { | 440 | 155 | | | Yesiz w | TEA (S) | | |
| Electric generators | 16 | 1 | •• | (g) | | | and the same of th | 1000 | | |
| Gearboxes | 831 | **** - { | 50 | 31 7 | | 37.5 | zell-teta | - | | |
| Other purchased components | •• | 2, 908 | ••• | 3, 358 |) Is | can ani | sicusated | sacros Geolie | | |
| (cr.s code cos c.rs | 1 883 | 8.283 | 1 208 | 1,0 | 1 1000 | No. of State | | Exercise 1 | | |

TABLE 13 (contd.)

| THOLE TO (CONTEST) | Commercial | | | | | | | |
|--|---|----------|--------------------------------|------------------------------|--------------------------------|------------|--------------------------------|-----------|
| TABLE IS COMMIT | Railway lo | comotive | eżosanie | Other | locomotive m | anu facti | ırers | T 20.0 AT |
| | 194 | 8 | 194 | .8 | 1937 | 1 | 1935 | ; |
| ABEV 10 1908 TSW. | Material fuel pur | | | Materials and fuel purchased | | purchas | ed materials | |
| | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |
| Materials (contd.) Replacement parts for own | Sec | £'000 | 1982 | £1000 | | £'000 | Teelasora | £1000 |
| machinery (other than machined castings) | \$2 | 111 | Las I. Lass. | 80 | \ | 1,718 | Cinicisc of the progress | 1,206(h) |
| All other purchased materials | • • | 2,234 | | 1, 453 | | | | Access to |
| Fuel and electricity | Th. tons | | Th.tons | | Th. tons | | Th. tons | STABLE |
| Coal | 114.6 | 289 | 58.8 | 158 | 74.3 | 78 | 65.4 | 53 |
| Coke Electricity purchased (1) | 38.3 Th.B.T.U. (kW.hrs.) | 144 | 20.9 Th.B.T.U. (kW.hrs.) | 85 | 21.1 Th.B.T.U. (kW.hrs.) | 32 | 18.3 Th.B.T.U. (kW.hrs.) | 23 |
| From public supply | 66,467 | 315 | 51,025 | 192 | | | | |
| From other sources | -000 | - | 000 L | | 29,380 | 85 | 21,858 | 69 |
| Electricity obtained from other works under the same ownership | 7,412 | 39 | | at acta | | | 21,000 | |
| Motor spirit (petrol) and derv. fuel | Th.galls. | | Th.galls. | | GUERRY LOS | | | |
| Used for road vehicles | 48 | 4 | 107 | 3.6 st 9. | Eng | (d) | | (d) |
| Used for other power purposes | 311 | 14 | 161 | 80.15 ₇ | | a constant | EL TRECUES | (4) |
| Other oil fuel (including creosote/pitch mixtures) | 2,437 | . 84 | 3,759 | 132 | Th.galls. | 14 | Th.galls. | 8(j) |
| Gas purchased | Th. therms | | Th. therms | 102 | 020 | (j) | 4,0 | 2111 |
| From public supply | 1,013 Th.cu.ft. 107,158 | 35 21 | 1,720 | 52 | | | 2 Johnants 2 | |
| From other sources . | Th. therms | _ | - | - | | 25 | | (d) |
| Gas obtained from other works under the same ownership | | 120 | 0139 D | _ | ASIN S | | | Pro-Metri |
| All other purchased fuel | | 17 | ••• | 2 |) | | | |
| Total | | 15,065 | | 11,252 | | 3, 323 | | 2,347 |
| 1-1 D . 12 | | | | | | | | |

(a) Details of the materials and fuel used in 1935 are not available. The estimated total cost was

(a) Details of the materials and fuel used in 1935 are not available. The estimated total cost was £4,500,000.

(b) Described as sheets and strip of alloy steel.

(c) Not described as being in the rough in 1937 and 1935.

(d) Not recorded separately.

(e) Excluding nickel silver.

(f) Non-ferrous alloys in all forms.

(g) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given. The amounts are included with "All other purchased materials".

(h) Including fuel not specified separately.

(i) The total quantity of electricity consumed in 1948 by railway locomotive shops was 74,233,000 B.T. units including 355,000 generated in the same works. Owing to the risk of disclosure similar information cannot be given for other locomotive manufacturers.

(j) Described as "Heavy fuel oil".

Stocks of finished products and work in progress and stocks of materials and fuel, 1948

Larger establishments in Great Britain

TABLE 14

| | | | | | | | The second secon | - |
|--|------------------|--|-------------|------------|----------|--------------|--|--------------|
| | Railw | ay loco | motive shop | S | Other lo | ocomotive | manufactu | rers |
| | At begi of ye | AND DESCRIPTION OF THE PARTY OF | At er | | At begin | | At en of ye | |
| | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| Finished products | () 14 TEGS | £1000 - | 3000 30 | £'000 - | • 0 | £'000 558 | • • | £1000 787 |
| Work in progress | | 3,281 | | 3,342 | | 7,814 | | 8,969 |
| Total finished products and work in progress | | 3,281 | . Itte | 3,342 | | 8,372 | edto) visc | 9,756 |
| Materials and fuel | Th. tons | 2.86 | Th. tons | | Th.tons | refem te | Th.tons | one ferr |
| Iron and non-alloy steel in all forms, except finished parts | 67 | 1,650 | 76 | 1,907 | 17 | 546 | 222 | 689 |
| Other descriptions of materials and fuel | • • | 6,886 | | 9,048 | 1.000 | 1,511 | ema grios | 1,767 |
| Total materials and fuel | | 8,536 | | 10,955 | | 2,056 | iola italiagi | 2,456 |

Employment and remuneration (a)

Larger establishments

(i) Railway locomotive shops (b)

TABLE 15

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| | Average number of operatives | Administrative, technical and clerical employees (c) | Total |
|--------------------|------------------------------|--|----------------------|
| | 1948 | 1948 | 1.948 |
| Males | | TERRORI ATT | et heatstached |
| . Under 18 | 2,769 | 104 | 2,873 |
| All ages | 59,257 | 3,577 | 62,834 |
| Females | Lieva son ada 338 | nt been teen bne sterregen de | a to ellered (s) |
| Under 18 | 50 | 245 | 295 |
| All ages | 496 | 1,526 | 2,022 |
| Total | L on suttainer not | percent to service the Next | 3,168 |
| Under 18 | 2,819 | 349 | Let wetterfoot - 300 |
| All ages | 59,753 | 5, 103 | 64,856(d)(e) |
| Total remuneration | £'000 21,166 | &'000 1,869 | £'000 23,035 |

(ii) Other locomotive manufacturers

TABLE 15 (contd.)

| | | verage number operatives | | | ative, tech | | | Total | ar Sikki |
|--------------|--------|--------------------------|---------|--------------|-------------|-----------|---------------------|------------|---------------|
| | 1948 | 1937 | 1935 | 1948 | 1 937 | 1935 | 1948 | 1937 | 1935 |
| Males | | | | | | i a salas | | | |
| Under 18 | 1,091 | 2,301 | 1,628 | 103 | 204 | 127 | 1,194 | 2,505 | 1,755 |
| All ages | 18,208 | 14,492 | 11,573 | 3,046 | 1,821 | 1,595 | 21,254 | 16,313 | 13,168 |
| Females | | | | | 20043 | 0001 | | | |
| Indon 10 | - | | | | | | | o tektalsa | 100 E, 200 Er |
| Under 18 | 37 | 68 | 35 | 183 | 140 | 83 | 220 | 208 | 118 |
| All ages | 751 | 32:0 | 274 | 1,091 | 579 | 489 | 1,842 | 899 | 763 |
| Total | 1.38 | | 5.40 | 8,40 | 098,1 | 688 | A BOOK | Igne Ledge | |
| Under 18 | 1,128 | 2,369 | 1,663 | 286 | 344 | 210 | 1,414 | 2,713 | 1,873 |
| All ages | 18,959 | 14,812 | 11,847 | 4,137 (f) | 2,400 | 2,084 | 23,096 (d)(e)(f) | 17,212 | 13, 931 |
| Total | £1000 | | 1031123 | £'000 | | | £1000 | | |
| remuneration | 5,909 | •• | | 1,702 | •• | | 7,611 | | |

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

| Tenny Tanasian eda ani komun | Railway loo Males | omotive shops Females | Other locomotiv | e manufacturers Females |
|------------------------------|----------------------|--------------------------|-----------------|----------------------------|
| Canteen workers | 6 | 242 | 5 | 113 |
| Other workers | 69 | 50 | 26 | 29 |

(b) Details of employment for 1935 are not available. For the estimated total number of persons employed see Table 1.

(c) Number at September 25, 1948, October 16, 1937, and October 12, 1935.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to: -

Railway locomotive shops £553,000 Other locomotive manufacturers £185,000

(e) The following persons (included in this total) were employed on special work by establishments employing 100 or more persons:-

| | Railway lo | ocomotive shops | Other locom | otive manufacturers |
|---|------------|---|-------------|---|
| | Operatives | Administrative, technical and clerical employees | Operatives | Administrative, technical and clerical employees |
| Transport of goods outside the premises Maintenance and repair of firms! | - | | 18 | |
| buildings, but not plant Research work not directly connected with current produc- | 200 | e done on maler ablishments in well done on water | 94 | able 17 - Payes |
| tion however charged | 900_893 | 5 | oloool 70al | 10 |

(f) There were, in addition, 4 male working proprietors in 1948. Working proprietors are included in the 1937 and 1935 figures.

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Wages and salaries paid, 1948 (a) Larger establishments in Great Britain

(i) Railway locomotive shops

TABLE 16

| SERT TROOT 1200 | Amount | Esta | blishments | making retur | rns for the | calendar ye | ear |
|--------------------------------------|---------------------|----------------|------------------|-------------------|------------------|----------------|---------|
| | paid by all | | Per | centage of a | innual remui | neration pa | id in |
| serial state of 1812. | establish- ments | Amount paid | First quarter | Second quarter | Third quarter | Fourth quarter | Year |
| Wages and salaries of | £1000 | £1000 | | | | | ESESSO: |
| Operatives Administrative, technical | 21,166 | 21,166 | 25.3 | 25.1 | 24.3 | 25.3 | 100.0 |
| and clerical employees | 1,869 | 1,869 | 24.8 | 24.8 | 24.9 | 25.5 | 100.0 |
| Total | 23,035 | 23,035 | 25.3 | 25.1 | 24.3 | 25.3 | 100.0 |

(ii) Other locomotive manufacturers

| eregniostuase evilopoice | Amount | Establishments making returns for the calendar year | | | | | | | | |
|--|---------------------|---|------------------|---------------------------|--------------------------------------|--------------------------------------|------------------------------------|--|--|--|
| | paid by all | Amount. | Pero | centage of a | nnual remu | neration pai | d in | | | |
| | establish- ments | paid | First quarter | Second quarter | Third quarter | Fourth quarter | Year | | | |
| Wages and salaries of | £'000 | £1000 | amply and 11 | of Emology actors to s | 1046). Of constru Breeze about | Tedeofoel Tipa Pirev W Singa W | A TROMER A Line ent! Lespect | | | |
| Operatives | 5,909 | 4,397 | 24.2 | 24.9 | 23.2 | 27.6 | 100.0 | | | |
| Administrative, technical and clerical employees | 1,702 | 968 | 23.8 | 24.0 | 24.2 | 28.0 | 100.0 | | | |
| Total | 7,611 | 5,364 | 24.2 | 24.8 | 23.4 | 27.7 | 100.0 | | | |

⁽a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948 Larger establishments in Great Britain

The total amounts paid for work done on materials given out were:-

Railway locomotive shops 294,000 Other locomotive manufacturers £616,000

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Payments for certain services, 1948 Larger establishments in Great Britain

TABLE 18

| | Larger matebilishmo | | locomotive shops | | locomotive acturers |
|---|-----------------------|-----------------------------|---------------------|---------|------------------------|
| | agoda swijomobol waw | Amo | unt paid | Amo | ount paid |
| Repair and maintenance | anolitate | coa l | £'000 | | £1000 |
| Of buildings | Second-mand | Novem 1 | 73 | | 73 |
| Of plant, machinery and vehicles | 00012 100012 | | 26 | | 97 3 |
| Unclassified | 26 | | Life I | | 83 |
| Hire of plant, machinery and vehicles | - 39 - 1 | | 54 | | 24 (a) |
| Advertising and market research | 02 1 6845 | | | | |
| Advertising in newspapers, magazines | and periodicals | | 30. <u>-</u> | | 14 |
| Other advertising services (poster decirculars, etc.) and market research | | | \$60 5/60 | | 6 |
| Unclassified Management Sand | re on building work a | | e (Stites) | | 38 |
| Payments made for research work | i taera ni sinemailo | | | | |
| To research associations | range of canonication | | 102 | | - 3 |
| To universities, institutions, academ | mic bodies and | | Callering son | | |
| similar agencies | Reds | | 100.62030 | | |
| To other commercial concerns | | | - | | 6 |
| Postage, telephone, telegrams and cable | es | | 2 | | 38 |
| Commercial insurance premiums | | | 7 | | 61 |
| Rates (excluding water rates) payaole i | in the year | tytės (AS tytėsenia šeit | 78 | i terid | 25 (b) |

⁽a) Including £8,000 recorded as "Hire of plant, machinery and vehicles, including space".

⁽b) Including £7,000 recorded as "Rates (including water rates) payable in the year".

Plant, machinery and vehicles acquired and disposed of, 1948

Larger establishments in Great Britain

TABLE 19

| TABLE 19 | | | | | | | |
|---------------------|-------------|-------|-----------------|-----------|-------|----------------|------------|
| prod Jonona | bred graner | Rai | lway locomotive | shops | Other | locomotive man | ufacturers |
| | 0.00143 | Acq | uisitions | Disposals | AC | quisitions | Disposals |
| | 27 | New | Second-hand | Disposais | New | Second-hand | proposats |
| 200 | as . | £'000 | £1000 | £1000 | £1000 | £1000 | £'000 |
| Plant and machinery | | 492 | 36 | 19 | 509 | 67 | 25 |
| Vehicles | | 11 | - | 1 | 40 | 3 | 4 |
| Total | | 503 | 36 | 20 | 550 | 70 | 29 |

Capital expenditure on building work and changes in occupation of buildings and land, 1948

Larger establishments in Great Britain

TABLE 20

| TABLE 20 | | |
|--|--------------------------------|--------------------------------------|
| STATE OF THE PROPERTY OF THE P | Railway locomotive shops | Other locomotive manufacturers |
| 1. Capital expenditure on building work (a) | £'000 64 | £1000 90 |
| 2. Existing buildings and land (b) | smirmand son | Ciliadi Istoagerol |
| (i) Capital cost of freeholds bought | 10 | |
| (ii) Estimated capital value of leasehold buildings and land newly occupied in the year | \$5000 051_000\? | 34 |
| Total of headings 1 and 2 | 74 | 124 |
| 3. Existing buildings and land relinquished (c) | _ | - |
| 4. Headings 1 and 2 less heading 3 | 74 | 124 |

(a) Excluding site value which, where appropriate, is included in heading 2 (i).

(b) The figures do not reflect changes in ownership of previously occupied land and buildings.

(c) Including property destroyed or abandoned.

948

Note - Other locomotive manufacturers - There were no larger establishments in Wales in the register for this trade. Owing to the risk of disclosure of information relating to individual firms separate particulars for Scotland cannot be given.

Summary

Larger establishments

TABLE 21

| SULEY WILD GEORGE SOLEN WATER SOLEN SOLEN | Rad | ilway loco | motive shop | S | Other locomo- tive manufac- turers |
|--|---------------|--------------|--------------|------------------|--|
| terrorpoz, processo i rescuijo i i i i i | England | Wales | Scotland | Great Britain | Great Britain |
| | £1000 | £'000 | £!000 | £'000 | £1000 |
| Gross output (production) | 32,897 | 1, 148 | 4, 194 | 38,239 | 22,823 |
| Cost of materials and fuel used | 11, 162 | 297 | 1, 186 | 12,645 | 10,852 |
| Payment for work done on materials given out | 89 | Tens | 4 | 94 | 616 |
| Net output | 21,645 | 851 | 3,004 | 25,500 | 11,355 |
| Wages and salaries of persons employed | 19,225 | 818 | 2,992 | 23,035 | 7,611 |
| Average number of persons employed | No. 54,406 | No. 2,279 | No. 8,171 | No. 64,856 | No. 23,100 |
| Net output per person employed | દ્ધ 398 | £ 374 | £ 368 | £ 393 | £ 492 |
| Stocks at end of year | £'000 | £'000 | £1000 | £'000 | £'000 |
| Finished products and work in progress | 3,086 | 24 | 232 | 3,342 | 9,756 |
| Materials and fuel | 9,700 | 100 | 1,155 | 10,955 | 2,456 |
| Number of establishments | No. 267 | No. .43 | No. 45 | No. 355 | No. 39 |

The values of gross output and of materials and fuel used are derived in the following way:-

| projections | Rai | lway locom | otive shops | ladinanda Azentanoa | Other locomo- tive manufac- turers |
|---|---------|------------|-------------|------------------------|--|
| entiska crated T | England | Wales | Scotland | Great Britain | Great Britain |
| Output of establishments in this trade | £1000 | £'000 | £1000 | £1000 | £'000 |
| Total value of sales (see Table 23) | 32,854 | 1, 152 | 4,172 | 38, 178 | 21,598 |
| Adjustment for changes in stocks and work in progress | + 43 | - 4 | + 22 | + 61 | + 1,384 |
| na 20 Tons 300 and 20 and | 32,897 | 1,148 | 4, 194 | 38, 239 | 22,982 |
| Less payment for transport by other firms | 1 - | - | - | - | 158 |
| Gross output (production) | 32,897 | 1, 148 | 4, 194 | 38, 239 | 22,823 |
| Materials and fuel used by establishments in this trade | 388 | | | | STANKE STANK |
| Purchases (see Table 24) | 13,418 | 313 | 1, 334 | 15,065 | 11, 252 |
| Adjustment for changes in stocks | - 2,255 | - 16 | - 148 | - 2,420 | - 400 |
| Materials and fuel used | 11,162 | 297 | 1,186 | 12,645 | 10,852 |

TABLE 22 - Summary: Small establishments

(i) Railway locomotive shops

There were no small establishments in the register for this trade.

(ii) Other locomotive manufacturers

See Table 2. There were no small firms in Wales or Scotland in the register for this trade.

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Sales in the trade

Larger establishments

TABLE 23

| | | | Rat | llway locor | notive s | hops | | Other locomotive manufacturers | |
|--|----------|-------------|----------|-------------|----------|--|---|--------------------------------|---------|
| | | England an | nd Wales | Scot | land | Great B | ritain | Great B | ritain |
| | | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| and the second s | | No. | £1000 | No. | £'000 | No. | £'000 | No. | £'000 |
| Principal products | one Edga | Social. | | | | | | | |
| Locomotives, rail | 00013 | 00010 | | | | | | | |
| Main line | | 5 834 | | | | | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (100 () (100 m | in ase |
| | 801 7 | 272 | 3.55 | | | 272 | 1 | 372 | |
| Steam | 1 | Tons 23,846 | 3,427 | - | - 4 | Tons 23,846 | 3,427 | Tons 35, 889 | 7,31 |
| | 100 ,8 | 188 | 3086 | 3 1 | | | | No. | Q356 3 |
| | (| No. | 352 | | | No. | 1 | 13 | 100 200 |
| Electric | { | Tons 52 | 20. | a - | - { | Tons 52 | 20 (| Tons 867 | 25 |
| Shunting (railway) | | No. | 886 | | | No. | 6 | No. | 1 |
| Steam | ſ | 27 Tons | 140 | | - / | Tons | 140 | Tons | 25 |
| \$45 E 7 7 | 1 | 1,053 | | | 1878 | 1,053 | 000 000 | 754 | |
| | | No. | | | | No. | h | 18.1 Sept. 8.1 | |
| Diesel-electric | 1 | Tons 305 | 79 | 2 Tour 200 | - (| Tons 305 | 79 | Se sautav | o seon |
| Diesel, mechanical | | 70000000 | - | - | - | - | - | | |
| Industrial, contractors | s¹ | | | | | | | | |
| and light railway | | selaw; | basita | 2. 1 | - | - | - | | |
| | | 10000187 | 903 | 6 | 1 | No. 270 | 1 | } | 1,77 |
| station of the service of | | No. | | Tons. | 6 | Tons | 456 | | - T |
| | | 264 | 450 | 60 No. | 1 | 3,812 No. | 1 | | 12012 |
| Boilers for locomotives | 1 | Tons 3,752 | 450 | 16 | 20 | 16 Tons | 20 | | |
| | | | | Tons | 1 | TOILS |) 20 | .01 | 3 85-33 |
| Other parts of locomotiv | es. | 867.0 | 708 | | | the party of the p | 1001 15100 | di. dinghaa | 1046 |
| except axles, tyres and | | | 833 | abini | lide ni | e nome in in | 833 | District Section | Estreo. |
| wheels | | 818. | 800 | 1 - 1 | | •• | 000 | 15, 550 | 3,17 |
| Road rollers and parts thereof | of Grand | 1 31 - | 865 | - | - | - 0200 | et 18220 | o sor lane | PERSA |
| | 001) | 788 | 253 | _ | - | | 253 | bost a lad | STEM |
| Railway signals (mechani | | adallés. | 255 | 1 tyresi | 15.8 5 | IA BASAT | 200 | 1,612 | 1,03 |
| Turntables and brake gea | r | shoes | 9 i femo | dol Yawi | 89-(1) | - | | 1 | |

TABLE 23 (contd.)

| TABLE 23 (Conta.) | | | | | | | | 44001 |
|---|------------|----------|-----------|----------|----------|-----------|----------------|-----------------------|
| oristanogo fordo aprinters | aqona avi | Railw | ay locomo | tive sho | ps | | Other lo | ocomotive acturers |
| Great Britain Great Britain | England ar | nd Wales | Scotla | ind | Great E | ritain | Great B | ritain |
| Quantity Value Quantity Value | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value |
| group Tone £2000 | Tons | £1000 | 00018 | £'000 | Tons | £1000 | Tons | £1000 |
| Principal products (contd.) | | | | | | | augja | nearo |
| Repair work | | | | | mtd.) | | ne yeer | |
| Locomotives, rail | _ | | | | | | 10111011 | |
| Steam | | 22, 451 | | 3, 489 | | 25,941 | | |
| Diesel, mechanical | - | | | 3 | | 3 | 30 | 50 451 |
| Diesel-electric | | 34 | 54 | - | | 34 | ata He | 1, 146 (a) |
| Electric | | 1 | | - | | 1 | 25000 | 200 |
| Other | | 17 | 448 | - | | 17 | | ineres |
| Other repair work and work done for the trade or on | | | | no Jan | | | Sian or | |
| commission | 8.0 | 4.81- | sen | 8.881 | | - | han anan | 75(a) |
| Total principal products | YS -1 | 27,703 | 3840 7 | 3, 519 | | 31, 222 | 92.05 | 17, 244 |
| Other output | | 4.0 | 003 | 18.3 | | | | |
| Railway points, switches and crossings | 108 1.4 | 321 | | | | 7.01 | neria. | |
| | 18,049 | 174 |) | - (| 10.040 | 321 | 1 | |
| Railway chairs | 10,049 | 49 | } - | -{ | 18,049 | 174 49 | - | - |
| Railway carriages, wagons and trucks, and parts | ISTIA | | ann an | | | - | Entry | |
| thereof (except axles, tyres and wheels) | 768 | 108(b) | } - | -{ | 768 | 108 (b) | 460 | 116 |
| Engineering castings | | 13 | , | 4 | •• | 13 | nto disso | 51 |
| Other engineering products | •• | 72 | - | | •• | 72 | ••• | 32 |
| Electrical goods and | •• | 117 | | _ | •• | 117 | •• | 71 |
| appliances | | 113 | - | - | | 113 | | 732 |
| Machinery and parts | | | | | | | | |
| Boilers (other than for locomotives) and boiler-house plant | | | | | | | | |
| th all county satisfy county at | | | | - | | | | 458 |
| | | | | | | | No. 36 | 150 |
| Prime movers | - | - | - | - | - | - { | H.p. 11,660 | |
| 20 1110111 | | | | | | | ••• | 45 |

Purchased materials and fuel

Larger establishments

| | ne busha | Railwa | ay locomoti | lve shop | S | | Other local | |
|--|-------------|----------|-------------|---------------------|-----------------------|---------------------|-----------------------------|-----------|
| Chauten Ceer Clearite Coat | England an | d Wales | Scot] | and | Great Br | itain | Great Br | itain |
| Charges 2100 In owes 2100 | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost |
| Condensate State of the Condensate of the Conden | Th. tons | £'000 | Th. tons | £'000 | Th. tons | £'000 | Th. tons | £1000 |
| Materials | | | | | | | .bunco) rec | qóD |
| Iron and steel | 87 - | \$.0 I | | .88. | Jack | 200 L0 G | tinished par | |
| Bars and rods | | | | | ared . | ្ស បន្ទក្សរ ព្រះ | .misolgi, nd. | TIT HO |
| Alloy steel | 2.8 | 125 | 981 | 3 | 2.9 | 129 | 2.5 | 150 |
| Iron and non-alloy steel | 25.8 | 632 | 3.5 | 93 | 29.3 | 725 | 19.1 | 483 |
| Plates, sheets and strip | | | | | 1 314 5 1 | | 90.8 | 100 |
| Alloy steel | 3.0 | 59 | 8 _ | 16 | 3.0 | 59 | 2.5 | 78 |
| Iron and non-alloy steel | 26.7 | 551 | 1.8 | 42 | 28.6 | 593 | 26.6 | 535 |
| Wrought tubes of iron and non-alloy steel | 0.5 | 37 18 | 0.1 | 10 { | 0.6 | 47 18 | 1.4 | 135 |
| Castings in the rough | 18 | 19 | 780 | | tel Un | 1000 83 | io sicenus Independent | noo en |
| Iron | 34.8 | 727 | 0.7 | 15 | 35.5 | 742 | 12.0 | 696 |
| Alloy steel | 2, 5 | 52 | 84 - | -327- | 2.5 | 52 | 0.9 | 188 |
| Non-alloy steel | 1.4 | 120 | | 2 | 1.4 | 122 | 5.9 | 536 |
| Machined castings, iron and steel | 1.0 | 124 | 0.4 | 29 | 1.5 | 152 | 0.6 | 125 |
| Forgings in the rough | | nos di | 100 | tot tot | | | | |
| Alloy steel | September 1 | 1 1 | n agina - | -172 | 70. thei - | 1 | 0.2 | 21 |
| Iron and non-alloy steel | 6.7 | 191 | 0.6 | 36 | 7.3 | 227 | 6.0 | 283 |
| Other descriptions, except finished parts | | 4-0 | 154 | 121 | 10 120 | | irti | ge ge |
| Alloy steel | 68 <u> </u> | 1 | 118_ | -32_ | - | 1 | a ja Sulpuja ba dalaanda | 12 |
| Iron and non-alloy steel | 22.1 | 280 | 1.8 | 22 | 23.8 | 302 { | 6.1 | 93 128 |
| Brass (including all alloys of copper but excluding nickel alloys other than nickel silver) | Th. cwts. | 8.0 | Th.cwts. | 10.0 22.0 No. | Th.cwts. | | Th. cwts. | 120 |
| in all forms, except finished parts | 108.4 | 785 | 4.7 | 38 | 113.1 | 823 { | 28.8 | 259 65 |
| Copper | | | | | | 120000-1 | tedse selett | |
| Plates, sheets and strip | 130.2 | 918 | 7.9 | 75 | 138.1 | 993 | 25.9 | 245 |

TABLE 23 (contd.)

| TABLE 23 (Contu.) | | | | | | | | | | |
|---|-------------|---------|------------|----------|---------------|---------|------------------------|--------------|--|--|
| e de participa de la companya de la | gbās evijos | Railwa | y locomoti | ve shops | | | Other lo manufac | | | |
| Orest Britain Orest Witchin | England an | d Wales | Scotla | and | Great Britain | | Great Britain | | | |
| CHARLET VALUE QUARTERY VALUE | Quantity | Value | Quantity | Value | Quantity | Value | Quantity | Value | | |
| | 09019 | £'000 | 000.12 | ฐ! 000 | | £1000 | Tons | £'000 | | |
| Other output (contd.) | | | | 1 | (42 | anco) a | al product | itohiri | | |
| Machinery and parts (contd.) | | | | | | | . HICK T | Imed | | |
| Agricultural, mining, road making and earth moving machinery | | - | 184 /83 | - | _ | | 1,791 | 61 0 1 23 | | |
| Other | | - | - | - | | EBSER - | 3,027 | 681 470 | | |
| Oil refining | | 54 | - 34 | - | | 54 | 001941820A | - | | |
| Other goods | - | _ | - | - | 2026 | - | Leospic | 415 | | |
| Scrap and waste sold | - | | . 51 | | 100 | | dado | | | |
| Scrap metals | Th.tons | | Th. tons | | Th. tons | to ober | Th. tons | April Court | | |
| Iron and steel | 153, 3 | 795 | 18.4 | 78 | 171.8 | 873 | 24.4 | 79 | | |
| Brass | 4.9 | 480 | 0.4 | 27 | 5.2 | 508 | fontag læ | 30 | | |
| Copper | 4.5 | 490 | 0.4 | 41 | 4.9 | 531 | 10010 | 18 | | |
| Other | | 549 | 168 | 36 | ons as | 585 | samiod (a | 27 | | |
| Other waste products | | 21 | •• 174 | 3 | | 25 | ariado va | 2 | | |
| Work done | | 2,946 | 5.5 | 468 | | 3,414 | 7.37 | 243 (a) | | |
| Total | | 34,006 | | 4,172 | . 201 | 38,178 | ey carria trucks, a | 21,598 | | |

(a) Amount charged. (b) Parts only.

TABLE OH (contd)

| TABLE 24 (contd.) | | | · 181 | | rpumant substantant under the substant service and substant substants and substants. | | Name and Address of the Owner, which we have the owner, where the owner, where the owner, where the owner, where the owner, we have the owner, where the owner, which is the owner, where the owner, which is the owner, where the owner, which is the owner, which is the owner, where the owner, where the owner, which is the owner, where the owner, which is the owner, | | |
|---|-------------|----------|-------------|---------|--|------------------|---|-----------|--|
| TABLE 20 (CORTO-) | | Railway | locomotive | shops | | | Other locomotive manufacturers | | |
| Other locomotive | England an | d Wales | Scotla | nd | Great Brit | ain | Great Britain | | |
| Great Britain " Great Britain | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| Quantity Cost Quantity Cost | Th. Cwts. | £1000 | Th. cwts. | £!000 | Th.cwts. | ลู 1000 | Th.cwts. | £1000 | |
| Materials (contd.) | -000 12 E | | 00012 1 2 | 03 4183 | | 1000 | Tous, | | |
| Copper (contd.) Other descriptions, except finished parts | 83. 1 | 730 | 9.4 | 73 | 92.5 | 804 { | 15.0 10000.18 | 110 12 | |
| Tin in blocks, ingots, bars and slabs | 5.7 | 156 | 1.4 | 32 | 7.1 | 188 | 2.0 | 52 | |
| Timber (including wood for packing cases) | Th. cu. ft. | 3,5 | 359- 1 | ,38 - | Th.cu.ft. | ofie-do | Th.cu.ft. | | |
| Hardwood | 5. 4 | 4 2 | - | - { | 5. 4 | 2 | 23. 2 | 20 | |
| 87 0.8 93 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 | Stds. | 841 | Stds. | .89 | Stds. | o El s-c | Stds. | | |
| Softwood | 339 | 27 | TE - I | 2 | 339 | 29 { | 1,531 | 109 | |
| Consumable tools bought as replacement | 153. | 253 | 12 | 64 | 271.0. dg | 317 | ni Feetin | 228 | |
| | Th.galls. | r.085 | Th.galls. | .4527 | Th. galls. | 508 | Th. galls. | | |
| Paint, enamel and varnish | 63. 4 | 46 10 | 1.9 | 2 { | 65.4 | 48 10 | 47.9 | 31 25 | |
| 1.4 122 5.9 | No. of sets | | No. of sets | | No. of sets | Table | LO LETTOR | M | |
| Wheels and axles, complete | 182 | 16 | 3 | .1 _ | 185 | 16 | . (9.8) | (a) | |
| | Th. tons | 4,008 | Th. tons | 4, 179 | Th. tons | non' an | Th. tons | | |
| Tyres and exles | 17.9 | 785 | 2.6 | 103 | 20.5 | 888 | 4.2 | 181 38 | |
| Steel springs, laminated or spiral | 1.7 | 154 | 0.4 | 23 | 2.1 | 177 { | 0.4 | 46 64 | |
| Superheater equipment, including elements | 2.9 | 311 | 0.2 | 23 | 3.1 | 335 | 0.5 | 84 119 | |
| Electric lighting equipment | 33 • | 93 | 082 • | 2 2 | Ibota v | 95 | n bns.coll | 84 | |
| Boiler tubes | 10.3 | 732 | 0.8 | 53 | 11.1 | 785 | 3.0 | 255 | |
| | No. | | | | No. | luding han ni | No. | go Ib | |
| Diesel engines, complete | 5 | 47 | anv T | 108. | Sedelain's | 47 { | 440 | 155 | |
| Electric generators | 16 | 1 | - | - | 16 | 1 | •• 79 | (a) | |
| | 1 | 100 | 1 | 1000 | | 1 600 | costs costs | 10 | |

TABLE 24 (contd.)

| TABLE 24 (conta.) | In an in the second | | | | | | | | |
|--|-----------------------------|--------|--|----------|--|---------------|--|---------------|--|
| | | Railwa | Other locomotive manufacturers | | | | | | |
| | England and Wales | | Scotla | Scotland | | Great Britain | | Great Britain | |
| Marina termony | Quantity | Cost | Quantity | Cost | Quantity | Cost | Quantity | Cost | |
| Waterfala (aentd) | | £'000 | | £'000 | | £1000 | No. | £'000 | |
| Materials (contd.) | 2001/02/20 | _ | | | 177/18/1 1871 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 50 | 31 | |
| Gearboxes | Leta | | and Ista | | A 10 1 | | | 7 | |
| Other purchased components | 849 | 2,761 | •• | 147 | rdue | 2,908 | | 3, 358 | |
| Replacement parts for own machinery (other than machined castings) | | 102 | •• | 9 | | -111 | •• | 80 | |
| All other purchased materials | | 1,871 | •• | 363 | 4 25 | 2, 234 | 7.6.70 | 1,453 | |
| Fuel and electricity | Th. tons | 1 | Th. tons | | Th. tons | | Th.tons | | |
| Coal | 107.7 | 274 | 6.9 | 15 | 114.6 | 289 | 58.8 | 158 | |
| Coke | 34.8 | 132 | 3.5 | 12 | 38.3 | 144 | 20.9 | 85 | |
| Electricity purchased (b) | Th. B. T. U. | | Th. B. T. U. | | Th. B. T. U. | | Th. B. T. U. | anu. | |
| Electricity purchased (b) | (kW. hrs.) | | (kW.hrs.) | | (kW.hrs.) | 715 | (kW.hrs.) | 100 | |
| From public supply | 59,003 | 281 | 7,464 | 33 | 66,467 | 315 | 51,025 | 192 | |
| From other sources | | - | 1000 | | | | 62 76 | - | |
| Electricity obtained from other works under the same ownership | 7,412 | 39 | 5.8 Jans.4 | - | 7,412 | 39 | 8058 | - | |
| Motor spirit (petrol) and derv. fuel | Th.galls. | | Th.galls. | | Th.galls. | | Th.galls. | | |
| Used for road vehicles | 47 | 4 | 1 | - | 48 | 4 | 107 | 9 | |
| - Used for other power purposes | 308 | 14 | 3 | - | 311 | 14 | 161 | 7 | |
| Other oil fuel (including creosote/pitch mixtures) | 2, 338 | 81 | 99 | 4 | 2,437 | 84 | 3,759 | 132 | |
| Gas purchased | Th. therms | 28832 | Th. therms | d bad ha | Th. therms | Sandi | Th. therms | | |
| From public supply | 757 Th.cu.ft. 107,158 | 27 | 256 | 8{ | 1,013 Th.cu.ft. 107,158 | 35 21 | } 1,720 | 52 | |
| From other sources | - | - | - | - | - | - | - | - | |
| Gas obtained from other works under the same ownership | 573, 777 | 120 | - 1 | - | 573,777 | 120 | - | - | |
| All other purchased fuel | • • | 17 | - | - | | 17 | | 2 | |
| Total | | 13,731 | | 1,334 | | 15,065 | | 11,252 | |
| | | - | on a resident of the same of t | | | | - Mercan between the second se | | |

(a) Owing to the risk of disclosure of information relating to individual firms separate particulars cannot be given. The amounts are included with "All other purchased materials".
 (b) The total quantity of electricity consumed by railway locomotive shops in England and Wales was 66,769,000 B.T. units including 355,000 generated in the same works. The total quantity of electricity consumed in Scotland was 7,464,000 B.T. units, none being generated in the same works. Owing to the risk of disclosure of information relating to individual firms, separate particulars of the total quantity of electricity consumed by other locomotive manufacturers cannot be given.

Employment and remuneration

Larger establishments

Railway locomotive shops (a)

TABLE 25

| TABLE 25 | | | | | | | | | |
|-----------------------|------------------------------------|--|-----------------|------------------------------------|--|----------------|------------------------------------|--|-----------------|
| | Engla | and and Wale | es | S | cotland | | Great Britain | | |
| | Average number of operatives | Admini- strative, technical and clerical employees (b) | Total | Average number of operatives | Admini- strative, technical and clerical employees (b) | Total | Average number of operatives | Admini- strative, technical and clerical employees (b) | Total |
| Males | 4478 | | | | | | | . Algorithm | |
| Under 18 | 2, 328 | 99 | 2, 427 | 441 | 5 | 446 | 2,769 | 104 | 2, 873 |
| All ages | 51,710 | 3, 158 | 54,868 | 7,547 | ± 41 9 | 7,966 | 59,257 | 3, 577 | 62, 834 |
| Females | | | | | | | | | |
| Under 18 | 50 | 219 | 269 | - | 26 | 26 | 50 | 245 | 295 |
| All ages | 471 | 1,346 | 1,817 | 25 | 180 | 205 | 496 | 1,526 | 2,022 |
| Total | | | | | | | | | |
| Under 18 | 2, 378 | 318 | 2,696 | 441 | 31 | 472 | 2,819 | 349 | 3, 168 |
| All ages | 52, 181 | 4,504 | 56, 685 (c) | 7,572 | 599 | 8,171 (c) | 59,753 | 5, 103 | 64,856 (c) |
| Total remuneration | g' 000 18, 408 | £'000 1,635 | £'000 20,043 | | £'000 235 | £'000 2,992 | £'000 21,166 | £'C00 1,869 | £1000 23,035 |

⁽a) Owing to the risk of disclosure of information relating to individual firms similar details for other locomotive manufacturers cannot be given. See Table 15.

Monthly index of employment of operatives: Larger establishments (average employment in 1948 = 100)

TABLE 26

| | Monthly index (a) | | | | | Monthly index (a) | | | | | |
|----------|--------------------------|-------|------------------|--------------------------------|--------------------------|-------------------------|-----------|------------------|--------------------------------|--|--|
| | Railway locomotive shops | | | Other locomotive manufacturers | | | locomotiv | re shops | Other locomotive manufacturers | | |
| Month | England and Wales | 0 | Great Britain | Great Britain | Month | England and Wales | Scotland | Great Britain | Great Britain | | |
| 1948 | | | | | 1948 | | | | | | |
| January | 99.8 | 100.2 | 99.8 | 99.7 | August | 100.1 | 100.4 | 100.2 | 99.3 | | |
| February | 100.2 | 100.3 | 100.2 | 99.6 | September | 100.1 | 99.8 | 100.0 | 99.7 | | |
| March | 100.2 | 100.6 | 100.2 | 99.8 | October | 99.8 | 99.0 | 99.7 | 100.0 | | |
| April | 100.4 | 101.7 | 100.6 | 100.5 | November | 99.6 | 98.2 | 99.4 | 100.6 | | |
| May | 100.3 | 101.6 | 100.5 | 100.7 | December | 99.2 | 96.6 | 98.9 | 100.6 | | |
| June | 100.2 | 100.6 | 100.2 | 100.4 | Percentage employment | | | | | | |
| July | 100.2 | 100.9 | 100.3 | 99•1 | in this | | | | | | |
| * | • | | | | covered by the index | 100.0 | 100.0 | 100.0 | 72.7 | | |

⁽a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948. The question of man-hours worked in this trade will be dealt with in a later summary volume.

⁽b) Number at September 25, 1948.(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of \$553,000; \$482,000 for England and Wales, and £71,000 for Scotland.

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