

IRON AND STEEL TRADE (SMELTING AND ROLLING)

INTRODUCTORY

This trade comprises establishments that were engaged wholly or mainly in the smelting, rolling and casting of steel and in the manufacture of puddled and wrought iron.

Table I A.—General summary

| Particulars | 1935 | 1934 | 1933 | 1930 | 1924 |
|---|---------|---------|---------|---------|---------|
| | £'000 | £'000 | £'000 | £'000 | £'000 |
| Value of products (Gross output)... | 101,792 | 90,844 | 70,798 | 84,366 | 121,745 |
| Cost of materials, fuel and electricity used | 67,315 | 60,635 | 47,206 | 58,206 | 89,160 |
| Amount paid for work given out ... | 814 | 640 | 574 | 583 | 504 |
| Net output | 33,663 | 29,569 | 23,018 | 25,577 | 32,081 |
| Average number of persons employed | No. | No. | No. | No. | No. |
| | 135,274 | 126,837 | 113,213 | 136,417 | 157,947 |
| Net output per person employed ... | £ | £ | £ | £ | £ |
| | 249 | 233 | 203 | 187 | 203 |
| Number of returns | No. | No. | No. | No. | No. |
| Number of establishments | 300 | * | * | 303 | 345 |
| | 318 | } | } | 343 | * |

* Not available.

Table I B.—Firms employing not more than ten persons on the average

| Particulars | 1935 | 1930 | 1924 |
|---|------|------|------|
| | No. | No. | No. |
| Number of returns received | 22 | 24 | 24 |
| Average number of persons employed:— | | | |
| Males | 125 | 125 | 132 |
| Females | 6 | 7 | 6 |
| TOTAL | 131 | 132 | 138 |
| Number of firms not making returns | — | 27 | 22 |

In 1924 the value of the gross output of the small firms making returns was only 0·1 per cent. of the total.

Table II.—Size of establishments in 1935

| Size of establishment (average number employed) | Number of establishments | Gross output | Net output | Number of persons employed | Net output per person employed |
|--|--------------------------|--------------|------------|----------------------------|--------------------------------|
| | No. | £'000 | £'000 | No. | £ |
| 11-24 | 29 | 373 | 144 | 534 | 270 |
| 25-49 | 45 | 1,257 | 390 | 1,629 | 240 |
| 50-99 | 46 | 2,678 | 836 | 3,284 | 254 |
| 100-199 | 59 | 7,469 | 2,252 | 8,548 | 263 |
| 200-299 | 39 | 7,033 | 2,284 | 9,542 | 239 |
| 300-399 | 20 | 6,079 | 1,776 | 6,917 | 257 |
| 400-499 | 12 | 5,546 | 1,214 | 5,482 | 221 |
| 500-749 | 22 | 12,757 | 3,670 | 13,798 | 266 |
| 750-999 | 10 | 5,880 | 2,165 | 8,350 | 259 |
| 1,000-1,499 | 15 | 14,571 | 4,728 | 18,970 | 249 |
| 1,500 and over | 21 | 38,149 | 14,204 | 58,220 | 244 |
| TOTAL | 318 | 101,792 | 33,663 | 135,274 | 249 |

Table III.—Particulars of output, etc., in each of the principal areas of the United Kingdom

| Area* | Number of establishments† | Gross output | Net output | Number of persons employed | Net output per person employed |
|--------------------|---------------------------|--------------|------------|----------------------------|--------------------------------|
| | | £'000 | £'000 | | £ |
| 2 ... | 21 | 1935 8,508 | 2,983 | 12,220 | 244 |
| | | 1930 5,911 | 1,691 | | 182 |
| 3 ... | 118 | 1935 26,539 | 10,510 | 41,340 | 254 |
| | | 1930 19,972 | 8,151 | | 194 |
| 4 ... | 24 | 1935 14,476 | 4,118 | 18,830 | 219 |
| | | 1930 14,269 | 3,978 | | 181 |
| 5 ... | 67 | 1935 11,018 | 3,533 | 14,905 | 237 |
| | | 1930 9,137 | 2,546 | | 172 |
| 1 and 10 | 6 | 6,202 | 2,150 | 5,488 | 392 |
| 6 and 7 | 6 | 1,795 | 299 | 1,663 | 180 |
| 1, 6, 7 and 10 ... | 12 | 1935 7,997 | 2,449 | 7,151 | 342 |
| | | 1930 6,653 | 1,476 | | 188 |
| 12 and 13 ... | 44 | 1935 22,014 | 5,925 | 24,612 | 241 |
| | | 1930 17,017 | 4,317 | | 192 |
| 14 ... | 29 | 10,928 | 3,986 | 15,374 | 259 |
| 15 and 16 ... | 3 | 312 | 159 | 842 | 189 |
| 14-16 ... | 32 | 1935 11,240 | 4,145 | 16,216 | 256 |
| | | 1930 11,407 | 3,418 | | 191 |
| TOTAL ... | 318 | 1935 101,792 | 33,663 | 135,274 | 249 |
| | | 1930 84,366 | 25,577 | | 187 |

* For particulars see page xviii.

† Number of returns for 1930.

Table IV.—Sub-divisions of the industry

| Group | Number of establishments* | Gross output | Value of characteristic products | Net output | Number of persons employed | Net output per person employed |
|---|---------------------------|--------------|----------------------------------|------------|----------------------------|--------------------------------|
| | | £'000 | £'000 | £'000 | | £ |
| Smelting and rolling of steel, including special steel† ... | 107 | 1935 67,956 | 59,869 | 22,874 | 91,493 | 250 |
| | | 1930 55,538 | 46,388 | 17,042 | | 189 |
| Manufacturing of rolled products only (including re-rolling)† ... | 112 | 1935 20,348 | 18,076 | 6,184 | 24,085 | 257 |
| | | 1930 14,626 | 10,888 | 3,933 | | 186 |
| Manufacturing of galvanised sheets ... | 17 | 1935 6,271 | 3,580 | 1,932 | 8,034 | 240 |
| | | 1930 7,828 | 4,872 | 2,135 | | 191 |
| Other processes ... | 82 | 1935 7,217 | ... | 2,673 | 11,662 | 229 |
| | | 1930 6,374 | ... | 2,467 | | 179 |
| TOTAL ... | 318 | 1935 101,792 | ... | 33,663 | 135,274 | 249 |
| | | 1930 84,366 | ... | 25,577 | | 187 |

* Number of returns for 1930.

† Excluding establishments mainly engaged in the manufacture of galvanised sheets.

PRODUCTION

Table V A.—Total make of Steel and certain semi-finished products (including goods made and used for further manufacturing purposes in the same works)

| Kind of output | Returned on schedules for | | | | | |
|---|---------------------------|----------|----------|------------|----------|----------|
| | The Iron and Steel Trade | | | All trades | | |
| | 1935 | | 1934 | 1935 | | 1934 |
| | Quantity | En-tries | | Quantity | En-tries | |
| Steel ingots:— | Th. tons | No. | Th. tons | Th. tons | No. | Th. tons |
| Other than of special steel ... | 9,228.9 | 63 | 8,309.1 | 9,311.8 | 64 | 8,310.3 |
| Of special steel:— | | | | | | |
| Stainless and non-corrosive ... | 22.3 | 19 | 20.7 | 22.3 | 21 | 20.7 |
| Other descriptions | 242.4 | 44 | 171.0 | 244.7 | 56 | 173.2 |
| Steel castings, direct:— | | | | | | |
| Other than of special steel ... | 59.1 | 30 | 50.7 | 59.1 | 30 | 50.7 |
| Of special steel:— | | | | | | |
| Stainless and non-corrosive ... | 1.5 | 12 | 13.2 | 1.5 | 12 | 13.2 |
| Other descriptions | 15.1 | 16 | | 15.1 | 16 | |
| TOTAL—Steel ingots and castings | 9,569.3 | ... | 8,564.7 | 9,654.5 | ... | 8,568.1 |
| Steel blooms, billets and slabs:— | | | | | | |
| Other than of special steel ... | 5,376.3 | 50 | 4,504.2 | 5,426.3 | 51 | 4,504.9 |
| Of special steel:— | | | | | | |
| Stainless and non-corrosive ... | 13.3 | 11 | 120.5 | 13.3 | 11 | 120.5 |
| Other descriptions | 140.5 | 19 | | 140.5 | 19 | |
| Steel bars, rods, angles, shapes and sections:— | | | | | | |
| Other than of special steel:— | | | | | | |
| Sheet bars ... | 1,150.3 | 26 | 1,050.6 | 1,150.3 | 26 | 1,050.6 |
| Tinplate bars ... | 951.8 | 17 | 951.1 | 951.8 | 17 | 951.1 |
| Wire rods ... | 362.4 | 15 | 349.5 | 447.3 | 22 | 415.6 |
| Bright steel bars... Flats ... | 111.2 | 22 | 101.1 | 116.9 | 26 | 111.6 |
| Other descriptions of bars and rods | 293.6 | 60 | 697.2* | 293.6 | 60 | 698.8* |
| Angles, shapes and sections:— | 732.3 | 82 | | 734.0 | 84 | |
| Channels:— | | | | | | |
| Not exceeding 3 inch web ... | 11.2 | 19 | 888.9*† | 11.2 | 19 | 889.0*† |
| Exceeding 3 inch web ... | 157.7 | 18 | | 157.7 | 18 | |
| Other descriptions | 603.8 | 40 | 604.7 | 43 | | |
| Of special steel:— | | | | | | |
| Stainless and non-corrosive ... | 8.3 | 22 | 63.5 | 8.3 | 23 | 65.6 |
| Other descriptions | 71.3 | 35 | | 80.0 | 46 | |
| TOTAL—Steel bars, rods, angles, shapes and sections ... | 4,453.9 | ... | 4,101.9 | 4,555.8 | ... | 4,182.3 |

| Kind of output | Returned on schedules for | | | | | |
|--|---------------------------|----------|----------|------------|----------|----------|
| | The Iron and Steel Trade | | | All trades | | |
| | 1935 | | 1934 | 1935 | | 1934 |
| | Quantity | En-tries | | Quantity | En-tries | |
| | Th. tons | No. | Th. tons | Th. tons | No. | Th. tons |
| Iron bars, rods, angles, shapes and sections :— | | | | | | |
| Puddled bars ... | 55.1 | 23 | 56.3 | 55.1 | 23 | 56.3 |
| Scrap bars ... | 186.3 | 30 | 149.8 | 186.3 | 30 | 149.8 |
| Other descriptions of bars and rods ... | 90.4 | 22 | 93.9 | 90.4 | 22 | 93.9 |
| Angles, shapes and sections ... | 39.1 | 13 | 38.5† | 39.1 | 13 | 38.5† |
| Steel plates and sheets, not galvanised, not tinned, etc. :— | | | | | | |
| Not under $\frac{1}{8}$ in. thick :— | | | | | | |
| Of special steel :— | | | | | | |
| Stainless and non-corrosive ... | 0.6 | 4 | 938.5 | 0.6 | 4 | 938.5 |
| Other, including armour plates ... | 139.5 | 11 | | 139.5 | 11 | |
| Other than of special steel :— | | | | | | |
| Of $\frac{1}{8}$ in. and under $\frac{3}{16}$ in. ... | 97.0 | 27 | 97.8 | 28 | | |
| $\frac{3}{16}$ in. and over, including universal plates ... | 856.5 | 30 | 856.5 | 30 | | |
| Under $\frac{1}{8}$ in. thick :— | | | | | | |
| Sheets† :— | | | | | | |
| Of special steel :— | | | | | | |
| Stainless and non-corrosive ... | 3.6 | 8 | 901.2§ | 3.6 | 8 | 938.6§ |
| Other ... | 4.5 | 7 | | 4.5 | 7 | |
| Other than of special steel ... | 998.6 | 39 | | 1,036.1 | 45 | |

* In 1934 certain firms recorded their output of flats under the heading for angles, shapes and sections.

† Corrected figure.

‡ For black plates, see the Tinplate Trade (page 76).

§ Described as Black Sheets under $\frac{1}{8}$ inch thick (over 54 in. \times 28 in.).

Table V B.—Principal products made for sale

| Kind of output | 1935 | | | 1934 | |
|---|----------|--------|---------|----------|---------|
| | Quantity | Value | Entries | Quantity | Value |
| | Th. tons | £'000 | No. | Th. tons | £'000 |
| Steel ingots :— | | | | | |
| Other than of special steel ... | 615.4 | 2,916 | 44 | 665.6 | 2,957 |
| Of special steel ... | 57.2 | 1,398 | 37 | 46.1 | 1,196 |
| Steel castings, direct :— | | | | | |
| Other than of special steel ... | 52.4 | 1,781 | 24 | 44.3 | 1,380 |
| Of special steel :— | | | | | |
| Stainless and non-corrosive | 1.3 | 167 | 12 | 8.4 | 552 |
| Other descriptions ... | 7.9 | 450 | 14 | | |
| TOTAL—Steel ingots and direct castings ... | 734.2 | 6,712 | ... | 764.4 | 6,085 |
| Refined pig iron* ... | 42.2 | 236 | 10 | 45.1† | 249† |
| Steel blooms, billets and slabs :— | | | | | |
| Other than of special steel ... | 1,574.0 | 9,663 | 44 | 1,517.8 | 9,499 |
| Of special steel :— | | | | | |
| Stainless and non-corrosive | 0.7 | 50 | 11 | 70.6 | 681 |
| Other descriptions ... | 108.2 | 1,149 | 18 | | |
| Steel bars, rods, angles, shapes and sections :— | | | | | |
| Other than of special steel :— | | | | | |
| Sheet bars ... | 854.8 | 4,471 | 26 | 803.6 | 4,131 |
| Tinplate bars ... | 949.2 | 4,827 | 17 | 950.7 | 4,629 |
| Wire rods ... | 375.0 | 3,124 | 22 | 353.5 | 2,962 |
| Bright steel bars ... | 111.0 | 1,728 | 26 | 108.6 | 1,682 |
| Flats ... | 288.4 | 2,346 | 60 | 663.8‡ | 6,117‡ |
| Other descriptions of bars and rods ... | 715.8 | 6,599 | 83 | | |
| Angles, shapes and sections :— | | | | | |
| Channels :— | | | | | |
| Not exceeding 3 in. web | 11.2 | 96 | 19 | 880.9†† | 6,895†† |
| Exceeding 3 in. web ... | 156.9 | 1,149 | 18 | | |
| Other descriptions ... | 599.4 | 4,721 | 43 | | |
| Of special steel :— | | | | | |
| Stainless and non-corrosive | 6.6 | 743 | 23 | 60.4 | 2,753 |
| Other descriptions ... | 74.4 | 2,644 | 45 | | |
| TOTAL—Steel bars, rods, angles, shapes and sections ... | 4,142.7 | 32,448 | ... | 3,821.5 | 29,169 |
| Iron bars, rods, angles, shapes and sections :— | | | | | |
| Puddled bars ... | 3.1 | 20 | 10 | 2.8 | 16 |
| Scrap bars ... | 12.5 | 79 | 15 | 11.9 | 70 |
| Other descriptions of bars and rods ... | 90.0 | 878 | 22 | 92.5 | 852 |
| Angles, shapes and sections ... | 39.1 | 374 | 13 | 38.4† | 351† |
| Girders, beams, joists and pillars :— | | | | | |
| Fabricated§ ... | 63.3 | 524 | 6 | 41.2 | 281 |
| Not fabricated :— | | | | | |
| Not exceeding 3 in. web ... | 1.8 | 14 | 4 | 410.2 | 2,811 |
| Exceeding 3 in. web ... | 448.1 | 3,102 | 16 | | |
| Steel arches for colliery and similar purposes* ... | 108.3 | 838 | 11 | 98.8 | 728 |

| Kind of output | 1935 | | | 1934 | |
|--|----------|-------|---------|----------|---------|
| | Quantity | Value | Entries | Quantity | Value |
| | Th. tons | £'000 | No. | Th. tons | £'000 |
| Hoop and strip :— | | | | | |
| Other than of special steel :— | | | | | |
| Bright cold rolled ... | 92.2 | 1,780 | 22 | 94.0 | 1,997 |
| • Other than bright cold rolled :— | | | | | |
| Baling and barrel ... | 51.3 | 478 | 10 | 53.6 | 485 |
| For tubes :— | | | | | |
| Iron ... | 38.4 | 411 | 12 | 40.2 | 418 |
| Steel ... | 259.9 | 1,783 | 17 | 221.6 | 1,643 |
| For other purposes ... | 171.5 | 1,565 | 29 | 153.2 | 1,440 |
| Of special steel :— | | | | | |
| Stainless and non-corrosive ... | 1.8 | 299 | 9 | } | |
| Other descriptions ... | 4.6 | 101 | 7 | | |
| TOTAL—Hoop and strip ... | 619.7 | 6,417 | ... | 562.6 | 5,983 |
| Plates and sheets, not galvanised, not tinned, etc. :— | | | | | |
| Of steel :— | | | | | |
| Not under $\frac{1}{8}$ in. thick :— | | | | | |
| Other than of special steel :— | | | | | |
| Of $\frac{1}{8}$ in. and under $\frac{3}{16}$ in. $\frac{3}{16}$ in. and over, including universal plates... | 97.0 | 824 | 28 | } | 8,349 |
| Of special steel :— | 855.3 | 6,842 | 30 | | |
| Stainless and non-corrosive ... | 0.6 | 40 | 4 | | |
| Other, including armour plates ... | 137.6 | 2,084 | 11 | | |
| Under $\frac{1}{8}$ in. thick :— | | | | | |
| Sheets :— | | | | | |
| Other than of special steel ... | 715.2 | 8,385 | 43 | } | 630.1 |
| Of special steel :— | | | | | |
| Stainless and non-corrosive ... | 3.5 | 496 | 8 | | |
| Other descriptions ... | 4.5 | 112 | 7 | | |
| Of iron :— | | | | | |
| Not under $\frac{1}{8}$ in. thick ... | 1.8 | 26 | 4 | 1.4 | 21 |
| Under $\frac{1}{8}$ in. thick ... | 0.8 | 14 | 3 | 0.7 | 13 |
| Galvanised sheets :— | | | | | |
| Flat ... | 97.9 | 1,267 | 17 | 104.1 | 1,329 |
| Corrugated ... | 289.0 | 3,579 | 20 | 263.3 | 3,166 |
| Railway, etc., material¶ :— | | | | | |
| Steel rails, new :— | | | | | |
| Grooved for trams ... | 32.6 | 287 | 4 | 27.2 | 231 |
| Railway (including conductor rails for electric traction) :— | | | | | |
| Points, switches and crossings ... | 4.0 | 210 | 7 | 3.5† | 179† |
| Other rails :— | | | | | |
| Weighing over 36 lbs. per yard ... | 336.6 | 2,551 | 17 | 344.5** | 2,597** |
| Weighing 36 lbs. per yard and under ... | 36.7 | 257 | 21 | 36.2†† | 241†† |

| Kind of output | 1935 | | | 1934 | |
|---|----------|--------|---------|----------|--------|
| | Quantity | Value | Entries | Quantity | Value |
| | Th. tons | £'000 | No. | Th. tons | £'000 |
| Railway, etc., material¶ :— <i>contd.</i> | | | | | |
| Sleepers... .. | 26.4 | 169 | 9 | } | 33.8 |
| Fishplates and sole-plates ... | 24.5 | 289 | 30 | | |
| Tyres and axles ... | 84.5 | 1,679 | 20 | | |
| Other railway, etc., material (including railway spikes)... | 166.3 | 2,042 | 104 | 119.6 | 1,368 |
| Steel forgings, other than tyres, wheels and axles ... | 59.7 | 3,007 | 162 | 59.6 | 2,727 |
| Other smelting and rolling products ... | 32.7 | 1,350 | 32 | 38.9† | 1,273† |
| TOTAL—Goods made for sale | 10,995.1 | 98,014 | ... | 10,146.0 | 87,429 |
| Work done for the trade or on commission :— | | | | | |
| Tilting, rolling, etc. ... | ... | 747†† | 69 | ... | 700†† |
| Other work done (except galvanising) ... | ... | 173†† | 41 | ... | 119†† |
| TOTAL—PRINCIPAL PRODUCTS ... | ... | 98,934 | ... | ... | 88,248 |

* So far as recorded separately.

† Corrected figure.

‡ See footnote (*) to Table V A.

§ Output of manufacturers of steel only.

¶ Not recorded separately.

¶ Excluding sets of wheels and axles, which are dealt with in the report on the Railway Carriage and Wagon Building Trade, page 415, and goods produced by railway companies, which will be dealt with in the report on Railway Companies (Part IV). Some goods similar to those recorded under this heading may have been included by firms in the Mechanical Engineering Trade under the heading "Railway and tramway equipment and plant, not elsewhere specified" (see page 239).

** Described as weighing over 30 lbs. per yard.

†† Described as weighing 30 lbs. per yard and under.

‡‡ Amount received.

The figures shown in the preceding table include the following output recorded by firms whose returns were made on schedules for other trades and are not, therefore, included in Table I A.

| Kind of output | 1935 | | | 1934 | |
|---|----------|-------|---------|----------|-------|
| | Quantity | Value | Entries | Quantity | Value |
| | Th. tons | £'000 | No. | Th. tons | £'000 |
| Steel ingots :— | | | | | |
| Other than of special steel ... | 2.3 | 17 | 1 | 1.2 | 10 |
| Of special steel ... | 1.0 | 55 | 10 | 1.1 | 70 |
| Refined pig iron ... | 13.2 | 68 | 3 | 13.8 | 71 |
| Steel blooms, billets and slabs, other than of special steel ... | 1.9 | 14 | 1 | — | — |
| Steel bars, rods, angles, shapes and sections :— | | | | | |
| Other than of special steel :— | | | | | |
| Wire rods ... | 33.8 | 297 | 7 | 33.3 | 295 |
| Bright steel bars ... | 5.6 | 90 | 4 | 10.1 | 129 |
| Other descriptions of bars and rods ... | 1.7 | 33 | 2 | 3.9 | 101 |
| Angles, shapes and sections of special steel ... | 1.0 | 16 | 3 | | |
| Of special steel ... | 8.6 | 217 | 11 | | |
| Steel arches for colliery and similar purposes ... | 17.2 | 131 | 1 | 11.0 | 78 |
| Hoop and strip :— | | | | | |
| Other than of special steel :— | | | | | |
| Bright cold rolled ... | 2.9 | 57 | 2 | 3.3 | 65 |
| Other ... | 1.7 | 16 | 1 | 7.5 | 69 |
| Of special steel ... | 0.1 | 7 | 2 | | |
| Steel plates and sheets, not galvanised, not tinned, etc., other than of special steel :— | | | | | |
| Not under ½ in. thick ... | 0.8 | 7 | 1 | — | — |
| Under ½ in. thick ... | 28.9 | 440 | 5 | 25.4 | 385 |
| Galvanised sheets, corrugated ... | 1.0 | 12 | 1 | 0.8 | 9 |
| Railway, etc., material :— | | | | | |
| Points, switches and crossings | 0.6 | 11 | 2 | 0.7 | 12 |
| Sleepers ... | 5.0 | 19 | 2 | 1.2 | 10 |
| Fishplates and sole-plates ... | 0.4 | 4 | 6 | 21.9 | 468 |
| Tyres and axles ... | 24.3 | 521 | 8 | | |
| Other railway, etc., material (including railway spikes) ... | 122.8 | 1,270 | 86 | 88.4 | 827 |
| Steel forgings, other than tyres, wheels and axles ... | 11.1 | 396 | 130 | 11.5 | 406 |
| Other smelting and rolling products ... | 0.5 | 37 | 9 | 9.6 | 168 |
| Work done for the trade or on commission ... | ... | 11* | 2 | ... | 5* |
| TOTAL ... | ... | 3,746 | ... | ... | 3,178 |

* Amount received.

Table V C.—Output for sale of certain principal products, 1924-1935

| Kind of goods | 1924 | 1930 | 1933 | 1934 | 1935 |
|--|-----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Steel ingots and direct castings* ... | Th. tons 525.1 £'000 9,801 | 476.4 5,069 | 828.4 5,587 | 764.4 6,085 | 734.2 6,712 |
| Steel blooms, billets and slabs ... | Th. tons 1,056.9† £'000 9,049† | 831.9 6,055 | 1,203.1 7,204 | 1,588.4 10,180 | 1,682.9 10,862 |
| Tinplate bars ... | Th. tons 1,222.8 £'000 9,968 | 910.8 5,323 | 960.0 4,495 | 950.7 4,629 | 949.2 4,827 |
| Wire rods ... | Th. tons 183.6 £'000 2,316 | 164.8 1,478 | 277.3 2,204 | 353.5 2,962 | 375.0 3,124 |
| Other steel bars, rods, angles, shapes and sections ... | Th. tons 2,006.7 £'000 20,057 | 2,009.6 18,316 | 1,983.0 16,019 | 2,517.3 21,578 | 2,818.5 24,497 |
| Iron bars, rods, angles, shapes and sections ... | Th. tons 350.9 £'000 4,468 | 168.0 1,741 | 152.6 1,229 | 145.6 1,289 | 144.7 1,351 |
| Girders, beams, joists and pillars ... | Th. tons 380.8 £'000 3,492 | 356.8 2,902 | 312.7 2,201 | 451.4 3,092 | 513.2 3,640 |
| Hoop and strip ... | Th. tons 445.3 £'000 5,678 | 390.5 4,185 | 505.5 4,906 | 562.6 5,983 | 619.7 6,417 |
| Steel plates and sheets, not tinned, not galvanised, etc. :— | | | | | |
| Not under ½ in. thick... † | Th. tons 1,100.4 £'000 12,868 | 1,078.5 9,592 | 647.0 5,511 | 936.8 8,349 | 1,090.5 9,790 |
| Under ½ in. thick ‡ | Th. tons 686.9 £'000 10,433 | 480.8 5,479 | 500.5 5,488 | 630.1 7,392 | 723.2 8,993 |
| Galvanised sheets :— | | | | | |
| Flat ... | Th. tons 160.9 £'000 3,295 | 97.2 1,426 | 101.7 1,257 | 104.1 1,329 | 97.9 1,267 |
| Corrugated ... | Th. tons 549.0 £'000 10,625 | 433.9§ 5,711§ | 238.7 2,730 | 238.3 3,166 | 289.0 3,579 |
| Railway, etc., material :— | | | | | |
| Steel rails, new :— | | | | | |
| Grooved for trams... † | Th. tons 70.3 £'000 666 | 32.0 303 | 29.5 254 | 27.2 231 | 32.6 287 |
| Railway (including conductor rails for electric traction and points, switches and crossings) ... | Th. tons 537.1 £'000 4,617 | 446.7 3,481 | 273.2 2,178 | 384.2 3,017 | 377.3 3,018 |
| Sleepers, fishplates and sole-plates ... | Th. tons 88.2 £'000 944 | 82.8 745 | 42.1 346 | 33.8 330 | 50.9 458 |
| Tyres and axles ... | Th. tons 122.8 £'000 2,910 | 98.1 2,061 | 54.6 1,062 | 68.5 1,438 | 84.5 1,679 |
| Other railway, etc., material (including railway spikes) ... | Th. tons 154.7 £'000 2,300 | 175.2 2,199 | 79.6 819 | 119.6 1,368 | 166.3 2,042 |
| Steel forgings, other than tyres, wheels and axles ... | Th. tons 120.9 £'000 3,336 | 63.7 2,617 | 50.2 2,086 | 59.6 2,727 | 59.7 3,007 |
| Other smelting and rolling products, including work done ... | £'000 5,745 | 2,328 | 2,800 | 3,103 | 3,384 |
| TOTAL—PRINCIPAL PRODUCTS ... | £'000 122,568 | 81,011 | 68,376 | 88,248 | 98,934 |

* For years prior to 1934 the figures include some castings other than direct castings.

† Including iron blooms, billets, etc.

‡ Excluding black plates.

§ Including unclassified galvanised sheets (1,100 tons, £17,000).

|| See footnote (¶) to Table V B.

**Table V D.—Iron and
(in thousand**

| Trade | Pig iron and ferro-alloys | Scrap | Steel ingots | Steel blooms, billets, and slabs | |
|--|---------------------------|---------|--------------|----------------------------------|----|
| Iron and Steel— | | | | | |
| Blast Furnaces | — | 276.0 | — | — | 1 |
| Smelting and Rolling | 4,653.8 | 4,461.4 | 473.2 | 1,592.1 | 2 |
| Foundries | 1,446.8 | 644.9 | — | — | 3 |
| Tinplate | — | — | — | — | 4 |
| Wrought Iron and Steel Tube | — | — | 146.5 | 195.8 | 5 |
| Hardware, Hollow-ware, Metallic Furniture and Sheet Metal | — | — | — | — | 6 |
| Chain, Nail, Screw and Miscellaneous Forgings | — | — | — | — | 7 |
| Needle, Pin and Metal Smallwares | — | — | — | — | 8 |
| Wire | — | — | — | 106.6† | 9 |
| Tool and Implement | — | — | — | — | 10 |
| Cutlery | — | — | — | — | 11 |
| Mechanical Engineering | 369.9 | — | — | — | 12 |
| Electrical Engineering | — | — | — | — | 13 |
| Railway Carriage and Wagon | — | — | — | — | 14 |
| Shipbuilding | — | — | — | — | 15 |
| Aircraft¶ | — | — | — | — | 16 |
| Motor and Cycle¶ | — | — | — | — | 17 |
| Coopering | — | — | — | — | 18 |
| Building and Contracting¶ | — | — | — | — | 19 |
| Railway Companies | 26.4 | — | — | 10.9 | 20 |
| Local Authorities¶ | — | — | — | — | 21 |
| Packing | — | — | — | — | 22 |
| Total—Purchases of iron and steel | 6,496.9 | 5,382.3 | 619.7 | 1,905.4 | 23 |
| Total consumed in maker's own works | — | ... | 8,906.2 | 3,897.2 | 24 |
| TOTAL—Consumption | 6,496.9 | ... | 9,525.9 | 5,802.6 | 25 |
| Production | 6,488.6 | ... | 9,578.8 | 5,580.1 | 26 |
| Exports | 156.8 | ... | 1.4 | 5.8 | 27 |
| Retained imports | 127.4 | ... | 6.2 | 261.6 | 28 |
| Amount available for consumption | 6,459.2 | ... | 9,583.6 | 5,835.9 | 29 |

* Including rods.

§ Wrought tubes only.

φ Including cable.

§§ Output for sale as such of "Engineering" castings, "Direct" castings, and "Other" castings.

† Including bars.

|| Including tape.

** Including forgings and pressings.

**Steel used in 1935
(tons)**

| | Bars and rods | Plates and sheets | Hoop and strip | Girders, angles, shapes and sections | Wire | Tubes | Castings | Other and unclassified descriptions |
|----|---------------|-------------------|----------------|--------------------------------------|--------|--------|----------|-------------------------------------|
| 1 | — | — | — | — | — | — | — | — |
| 2 | 1,116.1 | — | — | — | — | — | — | — |
| 3 | — | — | — | — | — | — | — | — |
| 4 | 858.3 | — | — | — | — | — | — | — |
| 5 | 19.2 | — | 395.6 | — | — | — | — | — |
| 6 | — | 537.0 | — | — | — | 4.3 | — | — |
| 7 | 433.5 | — | — | — | 117.5* | — | — | 166.5 |
| 8 | — | — | — | — | 5.5 | — | — | 4.7 |
| 9 | 393.5 | — | — | — | 78.5 | — | — | — |
| 10 | — | — | — | — | — | — | — | 82.4 |
| 11 | — | — | — | — | — | — | — | 4.0 |
| 12 | 245.8 | 387.6‡ | — | 808.0 | — | 55.9§ | 358.8 | 69.3 |
| 13 | — | 96.2 | — | — | 41.6 | — | 62.9 | 10.6 |
| 14 | — | 40.5 | — | — | — | — | — | 161.7 |
| 15 | 12.3 | 237.2 | — | 99.2 | — | 6.2 | 10.9 | 24.1 |
| 16 | 3.2 | 1.2 | — | — | 0.3φ | 0.7 | — | 0.8 |
| 17 | — | 248.8 | — | — | — | 19.7 | 132.1** | 73.9 |
| 18 | — | — | 7.2 | — | — | — | — | — |
| 19 | — | — | — | — | — | — | — | 347.7 |
| 20 | 52.3 | 34.8 | — | 42.8 | — | 16.9 | 87.4 | 262.0 |
| 21 | — | — | — | — | — | — | — | 13.6 |
| 22 | — | — | 1.8 | — | — | — | — | — |
| 23 | 3,134.2 | 1,583.3 | 404.6 | 950.0 | 243.4 | 103.7 | 652.1 | 1,221.3 |
| 24 | 673.2 | 942.8 | ... | 6.1 | 64.7 | ... | ... | ... |
| 25 | 3,807.4 | 2,526.1 | 404.6 | 956.1 | 308.1 | 103.7 | 652.1 | ... |
| 26 | 4,114.0 | 2,907.0 | 619.7 | 1,262.6†† | 444.2 | 694.8 | ... | ... |
| 27 | 183.1 | 379.8 | 51.2 | 83.1 | 56.9 | 223.4 | ... | ... |
| 28 | 360.7 | 48.0 | 61.7 | 155.8 | 16.5 | 20.8 | ... | ... |
| 29 | 4,291.6 | 2,575.2 | 630.2 | 1,335.3 | 403.8 | 492.2§ | 793.3§§ | ... |

‡ Including strip.

¶ So far as recorded.

†† Excluding fabricated girders.

Table VI.—Average values of goods produced, exported and imported

| Kind of goods | Production (at factory) | | | Exports (f.o.b.) | | Imports (c.i.f.) | |
|---|-------------------------|-----------|------------------------------|------------------|-----------|------------------|-----------|
| | Average value | | 1935 as a percentage of 1934 | Average value | | Average value | |
| | 1935 | 1934 | | 1935 | 1934 | 1935 | 1934 |
| | £ per ton | £ per ton | Per cent. | £ per ton | £ per ton | £ per ton | £ per ton |
| Steel ingots:— | | | | | | | |
| Other than of special steel | 4.74 | 4.44 | 106.6 | 10.02 | 10.49 | 12.02 | 11.70 |
| Of special steel:— | | | | | | | |
| Stainless and non-corrosive | 34.19 | 33.19 | 103.0 | ... | ... | ... | ... |
| Other descriptions | 21.59 | 23.46 | 92.0 | ... | ... | 20.26 | 29.86 |
| Refined pig iron | 5.58 | 5.54 | 100.8 | * | * | * | * |
| Steel blooms, billets and slabs:— | | | | | | | |
| Other than of special steel | 6.14 | 6.26 | 98.1 | 8.98 | 8.47 | 4.07 | 3.85 |
| Of special steel | 11.01 | 9.65 | 114.1 | ... | ... | ... | ... |
| Steel bars, rods, angles, shapes and sections:— | | | | | | | |
| Other than of special steel:— | | | | | | | |
| Sheet bars | 5.23 | 5.14 | 101.7 | 7.88 | 10.99 | 3.58 | 3.64 |
| Tinplate bars | 5.09 | 4.87 | 104.4 | 5.01 | 4.79 | 3.60 | 3.36 |
| Wire rods | 8.33 | 8.38 | 99.4 | 7.60 | 10.07 | 6.33 | 6.11 |
| Bright steel bars | 15.57 | 15.49 | 100.5 | 19.03 | 19.14 | 10.02 | 9.89 |
| Other kinds of bars and rods | 8.91 | 9.21 | 96.7 | 11.69 | 15.13 | 5.45 | 5.37 |
| Angles, shapes and sections | 7.77 | 7.83 | 99.3 | 8.67 | 8.73 | 5.83 | 5.57 |
| Of special steel | 41.81 | 45.58 | 91.7 | 149.36 | 139.19 | 44.25 | 42.13 |
| Iron bars, rods, angles, shapes and sections:— | | | | | | | |
| Puddled bars | 6.62 | 5.90 | 112.3 | ... | ... | ... | ... |
| Scrap bars | 6.30 | 5.94 | 106.1 | ... | ... | ... | ... |
| Other descriptions of bars and rods | 9.76 | 9.21 | 105.9 | ... | ... | ... | ... |
| Total—Iron bars and rods | 9.26 | 8.76 | 105.6 | 13.36 | 13.24 | 9.62 | 8.97 |
| Angles, shapes and sections | 9.55 | 9.15 | 104.4 | 14.97 | 14.92 | 13.72 | 8.81 |
| Girders, beams, joists and pillars:— | | | | | | | |
| Fabricated | 8.28 | 6.83 | 121.2 | 13.64 | 11.96 | 4.81 | 5.14 |
| Not fabricated | 6.93 | 6.85 | 101.1 | 8.06 | 8.74 | 4.74 | 4.45 |
| Steel arches for colliery and similar purposes | 7.74 | 7.37 | 105.0 | * | * | * | * |
| Hoop and strip, other than of special steel:— | | | | | | | |
| Bright cold rolled | 19.32 | 21.24 | 91.0 | 32.43 | 31.36 | 50.43 | 34.89 |
| Other than bright cold rolled:— | | | | | | | |
| Baling and barrel | 9.32 | 9.04 | 103.0 | 10.32 | 10.24 | 7.18 | 6.95 |

| Kind of goods | Production (at factory) | | | Exports (f.o.b.) | | Imports (c.i.f.) | |
|--|-------------------------|-----------|------------------------------|------------------|-----------|------------------|-----------|
| | Average value | | 1935 as a percentage of 1934 | Average value | | Average value | |
| | 1935 | 1934 | | 1935 | 1934 | 1935 | 1934 |
| | £ per ton | £ per ton | Per cent. | £ per ton | £ per ton | £ per ton | £ per ton |
| Hoop and strip, other than of special steel:— — <i>contd.</i> | | | | | | | |
| Other than bright cold rolled:— <i>contd.</i> | | | | | | | |
| For tubes:— | | | | | | | |
| Iron | 10.69 | 10.41 | 102.7 | * | * | * | * |
| Steel | 6.86 | 7.41 | 92.5 | ... | ... | ... | ... |
| Total—For tubes | 7.35 | 7.87 | 93.4 | 12.96 | 12.98 | 5.27 | 5.20 |
| For other purposes | 9.13 | 9.40 | 97.1 | * | * | * | * |
| Steel plates and sheets, not galvanised, not tinned, etc.:— | | | | | | | |
| Not under $\frac{1}{8}$ in. thick:— | | | | | | | |
| Armour plates | 132.36 | 127.39 | 103.9 | ... | ... | ... | ... |
| Other descriptions | 8.11 | 8.44 | 96.0 | 8.35 | 8.27 | 6.25 | 6.24 |
| Sheets under $\frac{1}{8}$ in. thick... .. | 12.43 | 11.73 | 106.0 | 12.86 | 12.77 | 12.25 | 13.16 |
| Iron plates and sheets:— | | | | | | | |
| Not under $\frac{1}{8}$ in. thick... .. | 14.11 | 14.49 | 97.4 | 11.00 | 9.64 | ... | 21.31 |
| Under $\frac{1}{8}$ in. thick | 17.30 | 17.02 | 101.7 | 13.04 | 13.29 | 33.31 | 22.88 |
| Galvanised sheets:— | | | | | | | |
| Flat | 12.93 | 12.77 | 101.3 | 13.43 | 13.30 | ... | ... |
| Corrugated | 12.39 | 12.02 | 103.0 | 12.46 | 12.30 | ... | ... |
| Railway, etc., material:— | | | | | | | |
| Steel rails, new:— | | | | | | | |
| Grooved for trams | 8.81 | 8.47 | 104.0 | 9.92 | 12.74 | ... | ... |
| Railway (including conductor rails for electric traction):— | | | | | | | |
| Points, switches and crossings | 51.88 | 51.63 | 100.5 | 19.74 | 19.52 | 12.89 | 12.18 |
| Other rails:— | | | | | | | |
| Weighing over 36 lbs. per yard | 7.58 | 7.54† | 100.5 | 7.52 | * | 4.68 | * |
| Weighing 36 lbs. per yard and under | 7.01 | 6.66† | 105.2 | 7.69 | * | 4.51 | * |
| Total—Other rails | 7.52 | 7.46 | 100.9 | 7.52 | 7.86 | 4.52 | 4.69 |
| Sleepers, fishplates and sole-plates | 9.01 | 9.78 | 92.1 | 10.12 | 10.85 | 5.06 | 5.43 |
| Tyres and axles | 19.87 | 21.00 | 94.6 | 21.42 | 20.95 | ... | ... |
| Railway spikes | 13.82 | 13.39 | 103.2 | 13.74 | 14.42 | 9.00 | 9.96 |
| Steel forgings, other than tyres, wheels and axles | 50.36 | 45.79 | 110.0 | * | * | * | * |

* Not recorded separately.

† See footnotes (**) and (††) to Table V B.

Table VII.—Volume of Production, 1924-1935

| Kind of output | Total production | | | Production index (1935=100) | | | |
|---|------------------------|----------------|------------------------------|-----------------------------|------|------|------|
| | 1935 as returned | 1934 | | 1924 | 1930 | 1933 | 1934 |
| | | As returned | At 1935 average values | | | | |
| Steel ingots and castings | £'000 | £'000 | £'000 | | | | |
| Steel blooms, billets and slabs | 10,862 | 10,180 | 10,095 | 62 | 49 | 71 | 93 |
| Sheet bars | 4,471 | 4,131 | 4,203 | 79 | 54 | 84 | 94 |
| Tinplate bars | 4,827 | 4,629 | 4,835 | 129 | 97 | 101 | 100 |
| Wire rods | 3,124 | 2,962 | 2,944 | 49 | 44 | 74 | 94 |
| Steel girders, beams, joists and pillars ... | 3,640 | 3,092 | 3,182 | 74 | 69 | 61 | 88 |
| Bright steel bars ... | 1,728 | 1,682 | 1,690 | 66 | 69 | 69 | 98 |
| Steel bars, rods, angles, shapes and sections, not elsewhere specified ... | 18,298 | 15,765 | 15,287 | 66 | 72 | 62 | 84 |
| Iron bars, rods, angles, shapes and sections (in- cluding puddled and scrap bars) | 1,351 | 1,289 | 1,361 | 243 | 116 | 93 | 101 |
| Hoop and strip for all purposes | 6,417 | 5,983 | 5,825 | 68 | 63 | 82 | 91 |
| Plates and sheets (except black plates)* :— | | | | | | | |
| Iron plates and sheets... | 40 | 34 | 33 | 380 | 124 | 72 | 83 |
| Steel plates and sheets :— | | | | | | | |
| Not under 1/8 inch thick (including armour plates) | 9,790 | 8,349 | 8,054 | 90 | 88 | 58 | 82 |
| Sheets under 1/8 inch thick | 8,993 | 7,392 | 7,835 | 95 | 66 | 69 | 87 |
| Galvanised sheets :— | | | | | | | |
| Flat | 1,267 | 1,329 | 1,346 | 163 | 99 | 104 | 106 |
| Corrugated | 3,579 | 3,166 | 3,262 | 188 | 149 | 82 | 91 |
| Railway, etc., material :— | | | | | | | |
| Steel rails, new :— | | | | | | | |
| Grooved for trams ... | 287 | 231 | 240 | 217 | 99 | 91 | 84 |
| Railway (including con- ductor rails for electric traction) | 3,018 | 3,017 | 3,043 | 141 | 117 | 72 | 101 |
| Sleepers, fishplates and sole-plates | 458 | 330 | 304 | 171 | 161 | 80 | 66 |
| Tyres and axles | 1,679 | 1,438 | 1,361 | 145 | 116 | 65 | 81 |
| Other railway, etc., material | 2,042 | 1,368 | 1,470 | 93 | 106 | 48 | 72 |
| Steel forgings, other than tyres, wheels and axles | 3,007 | 2,727 | 2,999 | 202 | 106 | 84 | 100 |
| Other smelting and rolling products, including re- fined pig iron | 2,424 | 2,250 | 2,297 | ... | 60 | 88 | 94 |
| Work done for the trade or on commission ... | 920 | 819 | 822 | 93 | 75 | 79 | 89 |
| TOTAL | 98,934 | 88,248 | 88,853 | 93 | 77 | 73 | 90 |

* For black plates see the report on the Tinplate Trade (page 76).

Table VIII.—Production in relation to Exports and Imports

| Kind of goods | Production | Exports | Propor- tion of produc- tion exported | Retained imports | Avail- able for use in the United Kingdom | Share of home market held by British goods |
|--|--------------|---------|---|---------------------|--|---|
| | | | | | | |
| Steel ingots :— | | | | | | |
| Other than of special steel ... { | 1935 9,311.8 | 1.3 | 0.0 | 6.0 | 9,316.5 | 99.9 |
| special steel ... { | 1934 8,310.3 | 1.1 | 0.0 | 5.5 | 8,314.6 | 99.9 |
| Of special steel... { | 1935 267.0 | 0.0 | 0.0 | 0.2 | 267.2 | 99.9 |
| { | 1934 193.9 | 0.0 | 0.0 | 0.2 | 194.0 | 99.9 |
| Steel blooms, billets and slabs :— | | | | | | |
| Other than of special steel ... { | 1935 5,426.3 | 5.7 | 0.1 | 260.9 | 5,681.5 | 95.4 |
| special steel ... { | 1934 4,504.9 | 11.4 | 0.3 | 330.7 | 4,824.1 | 93.1 |
| Of special steel ... { | 1935 153.8 | 0.1 | 0.1 | 0.7 | 154.4 | 99.5 |
| { | 1934 120.5 | 0.0 | 0.0 | 0.6 | 121.1 | 99.5 |
| Steel bars, rods, angles, shapes and sections :— | | | | | | |
| Other than of special steel :— | | | | | | |
| Sheet bars ... { | 1935 1,150.3 | 2.2 | 0.2 | 99.8 | 1,247.9 | 92.0 |
| { | 1934 1,050.6 | 1.6 | 0.2 | 116.4 | 1,165.4 | 90.0 |
| Tinplate bars ... { | 1935 951.8 | 11.2 | 1.2 | 0.3 | 940.9 | 99.9 |
| { | 1934 951.1 | 13.5 | 1.4 | 7.5 | 945.1 | 99.2 |
| Wire rods ... { | 1935 447.3 | 6.3 | 1.4 | 84.9 | 525.9 | 83.9 |
| { | 1934 415.6 | 1.8 | 0.4 | 85.0 | 498.8 | 83.0 |
| Bright steel bars | 1935 116.9 | 3.0 | 2.6 | 1.2 | 115.1 | 99.0 |
| { | 1934 111.6 | 2.7 | 2.4 | 1.2 | 110.1 | 98.9 |
| Other bars and rods | 1935 1,027.6 | 150.7 | 14.7 | 160.8 | 1,037.7 | 84.5 |
| { | 1934 698.8 | 122.9 | 17.6 | 200.3 | 776.2 | 74.2 |
| Angles, shapes and sections ... | 1935 773.6 | 57.7 | 7.5 | 69.4 | 785.3 | 91.2 |
| { | 1934 889.0 | 50.4 | 5.7 | 79.3 | 917.9 | 91.4 |
| Of special steel { | 1935 88.3 | 2.7 | 3.0 | 1.8 | 87.4 | 97.9 |
| { | 1934 65.6 | 2.5 | 3.8 | 1.5 | 64.6 | 97.7 |
| Iron :— | | | | | | |
| Bars and rods ... { | 1935 331.8 | 7.1 | 2.1 | 12.0 | 336.7 | 96.4 |
| { | 1934 300.0 | 8.2 | 2.7 | 11.7 | 303.5 | 96.1 |
| Angles, shapes and sections ... { | 1935 39.1 | 1.0 | 2.6 | 0.2 | 38.3 | 99.5 |
| { | 1934 38.5 | 1.3 | 3.4 | 0.2 | 37.4 | 99.4 |
| Steel girders, beams, joists and pillars, not fabri- cated | 1935 449.9 | 24.3 | 5.4 | 86.3 | 511.9 | 83.1 |
| { | 1934 410.2 | 21.2 | 5.2 | 98.1 | 487.1 | 79.9 |
| Hoop and strip :— | | | | | | |
| Bright cold rolled { | 1935 92.2 | 2.0 | 2.2 | 3.6 | 93.8 | 96.2 |
| { | 1934 94.0 | 2.0 | 2.1 | 5.1 | 97.1 | 94.7 |
| Other than bright cold rolled :— | | | | | | |
| Baling and barrel { | 1935 51.3 | 48.0 | 93.5 | 7.2 | 10.5 | 31.7 |
| { | 1934 53.6 | 44.0 | 82.1 | 6.3 | 15.9 | 60.4 |
| For tubes ... { | 1935 298.3 | 1.3 | 0.4 | 50.9 | 347.9 | 85.4 |
| { | 1934 261.8 | 1.3 | 0.5 | 82.6 | 343.1 | 75.9 |
| Steel plates and sheets not under 1/8 in. thick (in- cluding armour plates) | 1935 1,094.4 | 183.4 | 16.8 | 41.3 | 952.3 | 95.7 |
| { | 1934 938.5 | 164.5 | 17.5 | 41.3 | 815.3 | 94.9 |
| Sheets under 1/8 in. thick* | 1935 1,044.2 | 155.2 | 14.9 | 5.5 | 894.5 | 99.4 |
| { | 1934 938.6 | 140.5 | 15.0 | 2.7 | 800.8 | 99.7 |

| Kind of goods | Production | Exports | Proportion of production exported | Retained imports | Available for use in the United Kingdom | Share of home market held by British goods |
|---|------------|----------|-----------------------------------|------------------|---|--|
| | Th. tons | Th. tons | Per cent. | Th. tons | Th. tons | Per cent. |
| Iron plates and sheets :— | | | | | | |
| Not under $\frac{1}{8}$ in. thick ... | 1935 1.8 | 1.1 | 59.4 | 0.0 | 0.8 | 93.8 |
| ... 1934 1.4 | 1.1 | 73.9 | 0.4 | 0.7 | 46.4 | |
| Under $\frac{1}{8}$ in. thick ... | 1935 0.8 | 2.9 | ... | 0.3 | ... | ... |
| ... 1934 0.7 | 1.6 | ... | 0.5 | ... | ... | |
| Galvanised sheets :— | | | | | | |
| Flat ... | 1935 97.9 | 60.6 | 61.9 | 0.0 | 37.3 | 100.0 |
| ... 1934 104.1 | 59.4 | 57.1 | 0.0 | 44.7 | 100.0 | |
| Corrugated ... | 1935 289.0 | 211.0 | 73.0 | 0.0 | 78.0 | 100.0 |
| ... 1934 263.3 | 189.4 | 71.9 | — | 73.9 | 100.0 | |
| Railway, etc., material†:— | | | | | | |
| Steel rails, new :— | | | | | | |
| Grooved for trams ... | 1935 32.6 | 9.6 | 29.6 | 0.0 | 23.0 | 100.0 |
| ... 1934 27.2 | 3.4 | 12.5 | 0.0 | 23.8 | 100.0 | |
| Railway (including conductor rails for electric traction) :— | | | | | | |
| Points, switches and crossings ... | 1935 32.9 | 5.5 | 16.9 | 0.3 | 27.7 | 98.8 |
| ... 1934 † | 3.2 | ... | 0.2 | ... | ... | |
| Other rails ... | 1935 373.3 | 93.2 | 25.0 | 11.3 | 291.4 | 96.1 |
| ... 1934 380.7 | 113.3 | 29.8 | 8.0 | 175.4 | 95.5 | |
| Sleepers and fishplates and soleplates ... | 1935 51.1 | 24.0 | 47.0 | 1.5 | 28.6 | 94.8 |
| ... 1934 33.8† | 17.2 | 51.0 | 1.0 | 17.6 | 94.1 | |
| Tyres and axles ... | 1935 84.5 | 21.9 | 25.9 | 0.0 | 62.6 | 100.0 |
| ... 1934 68.5 | 19.4 | 28.3 | 0.0 | 49.1 | 100.0 | |
| Other railway material, etc. (excluding wheels and axles in sets, but including railway spikes) ... | 1935 242.7 | 28.2 | 11.6 | 2.7 | 217.2 | 98.8 |
| ... 1934 † | 27.6 | ... | 0.7 | ... | ... | |

* For black plates, see the Tinplate Trade (page 76).

† See footnote (¶) to Table V B.

‡ The output by railway companies was not ascertained for 1934. Their output in 1935 was :—Points, switches and crossings, 28,890 tons; sleepers, fishplates and sole-plates, 224 tons; other railway material, 76,416 tons.

Table IX.—Other output of the Iron and Steel Trade (Smelting and Rolling)

The value of the gross output of the firms whose returns were made on schedules for the Iron and Steel Trade (Smelting and Rolling) was £101,792,000 in 1935 and £90,844,000 in 1934, of which £95,188,000 in 1935 and £85,070,000 in 1934 consisted of products included in Table V B. Particulars of the remaining items are shown below.

| Kind of output | 1935 | | 1934 | |
|--|-------------------------|-------|-------------------------|-------|
| | Quantity | Value | Quantity | Value |
| Goods made :— | Th. tons | £'000 | Th. tons | £'000 |
| Ferro-alloys ... | 2.3 | 627 | 1.2 | 360 |
| Black plates under $\frac{1}{8}$ inch thick ... | 58.0 | 662 | 49.2 | 539 |
| Springs ... | 12.2 | 360 | 9.1 | 272 |
| Wrought tubes and fittings ... | 15.4 | 294 | 16.1 | 291 |
| Iron castings ... | 4.9 | 44 | 5.4 | 51 |
| Iron and steel wire and manufactures thereof ... | 3.6 | 105 | 7.6 | 168 |
| Tools and implements (including cutlery) ... | ... | 508 | ... | 342 |
| Rivets, washers, nails, etc. ... | 5.9 | 68 | 5.7 | 62 |
| Machinery and plant (including military and naval stores, etc.) ... | ... | 471 | ... | 476 |
| Other manufactures of iron and steel ... | ... | 296 | ... | 377 |
| Ground basic slag for manure ... | 103.0 | 92 | 88.5 | 81 |
| Other goods made ... | ... | 88 | ... | 61 |
| TOTAL—Goods made ... | ... | 3,615 | ... | 3,080 |
| Electricity supplied to other undertakings of the firm or to outside consumers ... | Mill. B.T.U. (Kw.-hrs.) | | Mill. B.T.U. (Kw.-hrs.) | |
| ... | 242.6 | 284 | 79.0 | 104 |
| Scrap, waste and by-products sold :— | Th. tons | | Th. tons | |
| Iron and steel scrap ... | 588.6 | 1,717 | 543.0 | 1,335 |
| Scrap of non-ferrous metals ... | ... | 74 | ... | 49 |
| Slag, not ground ... | 552.8 | 189 | 502.9 | 143 |
| Cinder, etc. ... | 164.6 | 101 | 177.6 | 122 |
| Other waste and by-products sold ... | ... | 95 | ... | 75 |
| TOTAL—Scrap, waste and by-products sold ... | ... | 2,176 | ... | 1,724 |
| Structural work (bridge construction and steel framework for buildings) ... | ... | 252* | ... | 673* |
| Other work done ... | ... | 277† | ... | 193† |
| TOTAL ... | ... | 6,604 | ... | 5,774 |

* These amounts represent the net contract price of the work (or of such part of the work as was completed in the year of return) less the value of any girders, sections, etc., made in the firms' own works and used in the work; the quantities and values of such materials are included under the appropriate headings in Table V B.

† Amount received.

MATERIALS AND FUEL

Table X A.—Materials, fuel and electricity purchased and used

| Kind of materials, etc. | 1935 | | 1934 |
|--|-------------------------------------|--------|----------|
| | Quantity | Cost | Cost |
| | Th. tons | £'000 | £'000 |
| Pig iron | 4,506 | 13,029 | } 60,635 |
| Ferro-alloys | 147.9 | 2,679 | |
| Scrap | 4,461 | 12,054 | |
| Steel ingots | 473.2 | 2,912 | |
| Steel blooms, billets and slabs | 1,592 | 9,379 | |
| Sheet bars | 983.9 | 5,283 | |
| Other steel bars (except tinplate bars) | 132.2 | 1,260 | |
| Fuel and electricity used for all purposes :— | | | |
| Coal | 6,589.0 | 4,933 | |
| Coke | 140.6 | 154 | |
| Heavy fuel oil | 2,752 | 38 | |
| Purchased electricity* | Th. B.T.U. (Kw.-hrs.) 653,306 | 1,224 | |
| All other purchased materials and fuel... .. | ... | 14,370 | |
| TOTAL | ... | 67,315 | 60,635 |

* Including electricity generated in other works under the same ownership.

Table X B.—Consumption of coal, coke and electricity in 1935 and 1930

| (a) Consumed at Blast Furnaces (b) Consumed at Smelting Works and Rolling Mills | 1935 | 1930* |
|---|--------------------------------|--------------------------|
| | | Th. tons |
| Coal | { (a) 344.0 (b) 6,589.0 | } 7,050.2 |
| Coke | { (a) 7,170.3 (b) 140.6 | } 7,862.7 |
| | Th. B.T.U. (Kw.-hrs.) | Th. B.T.U. (Kw.-hrs.) |
| Electricity :— | | |
| Generated in same works | { (a) 190,119 (b) 389,311 | } 510,343 |
| Generated in other works under same ownership... .. | { (a) 71,349 (b) 178,045 | } 122,598 |
| Purchased | { (a) 57,472 (b) 475,261 | } 282,771 |
| Total electricity consumed | { (a) 318,940 (b) 1,042,617 | } 915,712 |

* Separate particulars of the consumption at blast furnaces and at smelting works, etc., are not available.

EMPLOYMENT

Table XI A.—Average numbers employed in 1935 and 1934

| Persons employed | Males | | Females | | Total | |
|--|----------------------------|--------------------------------|------------------------|----------------------------|----------------------------|----------------------------------|
| | Under 18 | All ages | Under 18 | All ages | Under 18 | All ages |
| Operatives (average for the year) | 8,310 | 122,046 | 242 | 802 | 8,552 | 122,848* |
| Administrative, technical and clerical staff† | 921 | 10,130 | 422 | 2,296 | 1,343 | 12,426 |
| | 800 | 9,848 | 278 | 2,075 | 1,078 | 11,923 |
| TOTAL | { 1935 9,231 1934 7,741 | { 1935 132,176 1934 123,872 | { 1935 664 1934 488 | { 1935 3,098 1934 2,965 | { 1935 9,895 1934 8,229 | { 1935 135,274* 1934 126,837* |

* The particulars given for 1935 include 197 operatives engaged in outside work of erection, fitting, etc., the corresponding figure for 1934 being 356.

† As at 12th October, 1935, and 13th October, 1934.

Table XI B.—Operatives employed in one week in each month of 1934 and 1935 by firms furnishing returns in respect of the twelve months ended December

| Mid week of* | Operatives employed | | Monthly index† | | |
|--|---------------------|--------|----------------|------|-------|
| | 1934 | 1935 | 1933 | 1934 | 1935 |
| January | 69,495 | 77,289 | 74.2 | 88.1 | 96.3 |
| February | 71,379 | 77,684 | 77.5 | 90.4 | 96.8 |
| March | 72,544 | 78,411 | 77.8 | 91.9 | 97.7 |
| April | 72,804 | 78,649 | 79.5 | 92.2 | 98.0 |
| May | 74,446 | 78,592 | 80.9 | 94.3 | 97.9 |
| June | 74,785 | 77,422 | 82.2 | 94.8 | 96.4 |
| July | 73,963 | 80,252 | 82.2 | 93.7 | 100.0 |
| August | 74,296 | 80,096 | 82.2 | 94.1 | 99.8 |
| September | 74,493 | 81,256 | 86.9 | 94.4 | 101.2 |
| October | 75,411 | 83,060 | 87.9 | 95.5 | 103.5 |
| November... .. | 75,950 | 84,656 | 88.0 | 96.2 | 105.5 |
| December | 76,275 | 85,854 | 90.4 | 96.6 | 106.9 |
| Average for the twelve months | 73,820 | 80,268 | 82.5 | 93.5 | 100.0 |
| Proportion of total operatives represented | 64.24 | 65.34 | ... | ... | ... |

* For the ending date of each week see page xiv.

† Based on the estimated average for the year 1935.

Table XI C.—Average numbers employed, 1924-1935

| Year | Operatives | Administrative, technical and clerical staff | Total |
|--------------|------------|--|---------|
| 1924 | 145,602 | 12,345 | 157,947 |
| 1930. | 123,716 | 12,701 | 136,417 |
| 1933 | 101,294 | 11,919 | 113,213 |
| 1934 | 114,914 | 11,923 | 126,837 |
| 1935 | 122,848 | 12,426 | 135,274 |

WAGES

Table XII.—Wages paid by firms furnishing returns of wages in 1935 and 1930

The aggregate amount of wages paid by firms furnishing returns of wages was £13,805,000 in 1935 representing 62.4 per cent. of the net output of these firms, the corresponding figures for 1930 being £13,312,000 and 76.6 per cent. The figures for these firms given below indicate the size of the sample and the extent to which it is representative.

| Firms furnishing returns of wages | 1935 | | 1930 | |
|---|-----------|---------------------|-----------|---------------------|
| | Aggregate | Proportion of trade | Aggregate | Proportion of trade |
| | £'000 | Per cent. | £'000 | Per cent. |
| Gross output... .. | 69,930 | 68.7 | 61,447 | 72.8 |
| Net output | 22,121 | 65.7 | 17,374 | 67.9 |
| Operative staff employed :— | No. | | No. | |
| During mid-week of October :— | | | | |
| Males | 88,526 | 71.0 | * | * |
| Females | 450 | 54.9 | | |
| Total | 88,976 | 70.9 | 79,958 | 71.4 |
| Average for the year | 87,713 | 71.4 | 87,123 | 70.4 |
| Administrative, technical and clerical staff | 7,781 | 62.6 | * | * |
| Number of establishments | 212 | 66.7 | ... | ... |

* Not recorded separately.

COUNTRY TABLES (1935)

Note.—The particulars given in the following tables relate only to firms whose returns were made on schedules for the Iron and Steel Trade (Smelting and Rolling). No production was recorded for Northern Ireland.

Table I.—General summary

| Particulars | Unit | England and Wales | Scotland | Great Britain |
|--|-------|-------------------|----------|---------------|
| Value of products (Gross output) ... | £'000 | 90,552 | 11,240 | 101,792 |
| Cost of materials, fuel and electricity used | " | 60,262 | 7,053 | 67,315 |
| Amount paid for work given out ... | " | 772 | 42 | 814 |
| Net output | " | 29,518 | 4,145 | 33,663 |
| Average number of persons employed ... | No. | 119,058 | 16,216 | 135,274 |
| Net output per person employed ... | £ | 248 | 256 | 249 |
| Number of returns | No. | 273 | 27 | 300 |
| Number of establishments | " | 286 | 32 | 318 |

Table II A.—Total make of Steel and certain semi-finished products (including goods made and used for further manufacturing purposes in the same works)

| Kind of goods | England and Wales | Scotland | Great Britain |
|--|-------------------|----------|---------------|
| Steel ingots :— | Th. tons | Th. tons | Th. tons |
| Other than of special steel | 8,004.0 | 1,224.9 | 9,228.9 |
| Of special steel :— | | | |
| Stainless and non-corrosive | * | * | 22.3 |
| Other descriptions | | | 242.4 |
| Steel castings, direct :— | | | |
| Other than of special steel | 47.8 | 11.3 | 59.1 |
| Of special steel :— | | | |
| Stainless and non-corrosive | * | * | 1.5 |
| Other descriptions | | | 15.1 |
| Steel blooms, billets and slabs :— | | | |
| Other than of special steel | 4,495.9 | 880.4 | 5,376.3 |
| Of special steel :— | | | |
| Stainless and non-corrosive | 13.3 | — | 13.3 |
| Other descriptions | * | * | 140.5 |
| Steel bars, rods, angles, shapes and sections :— | | | |
| Other than of special steel :— | | | |
| Sheet bars | 1,121.6 | 28.7 | 1,150.3 |
| Tinplate bars... .. | 951.8 | — | 951.8 |
| Wire rods | 362.4 | — | 362.4 |
| Bright steel bars | * | * | 111.2 |
| Flats | 250.8 | 42.8 | 293.6 |
| Other descriptions | 645.6 | 86.7 | 732.3 |
| Angles, shapes and sections :— | | | |
| Channels :— | | | |
| Not exceeding 3 inch web | * | * | 11.2 |
| Exceeding 3 inch web | | | 157.7 |
| Other descriptions | 508.9 | 94.9 | 603.8 |
| Of special steel :— | | | |
| Stainless and non-corrosive | * | * | 8.3 |
| Other descriptions | | | 71.3 |

| Kind of goods | England and Wales | Scotland | Great Britain |
|--|-------------------|----------|---------------|
| Iron bars, rods, angles, shapes and sections :— | Th. tons | Th. tons | Th. tons |
| Puddled bars | 37.7 | 17.4 | 55.1 |
| Scrap bars | 161.3 | 25.0 | 186.3 |
| Other descriptions of bars and rods | * | * | 39.1 |
| Angles, shapes and sections | | | |
| Steel plates and sheets, not galvanised, not tinned, etc. :— | | | |
| Not under $\frac{1}{8}$ in. thick :— | | | |
| Of special steel :— | | | |
| Stainless and non-corrosive | 0.6 | — | 0.6 |
| Other, including armour plates | * | * | 139.5 |
| Other than of special steel :— | | | |
| Of $\frac{1}{8}$ in. and under $\frac{3}{16}$ in. | 71.0 | 26.0 | 97.0 |
| $\frac{3}{16}$ in. and over, including universal plates | * | * | 856.5 |
| Under $\frac{1}{8}$ in. thick :— | | | |
| Sheets† :— | | | |
| Of special steel :— | | | |
| Stainless and non-corrosive | 3.6 | — | 3.6 |
| Other | 4.5 | — | 4.5 |
| Other than of special steel | 921.0 | 77.6 | 998.6 |

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† See footnote (†) to Table V A.

Table II B.—Output made for sale

| Kind of output | Unit | England and Wales | Scotland | Great Britain |
|------------------------------------|----------|-------------------|----------|---------------|
| Steel ingots :— | | | | |
| Other than of special steel | Th. tons | * | * | 613.1 |
| | £'000 | | | 2,899 |
| Of special steel | Th. tons | | | 56.2 |
| | £'000 | | | 1,343 |
| Steel castings, direct :— | | | | |
| Other than of special steel | Th. tons | 42.1 | 10.3 | 52.4 |
| | £'000 | 1,420 | 361 | 1,781 |
| Of special steel :— | | | | |
| Stainless and non-corrosive | Th. tons | * | * | 1.3 |
| | £'000 | | | 167 |
| Other descriptions | Th. tons | | | 7.9 |
| | £'000 | | | 450 |
| Refined pig-iron† | Th. tons | | | 29.0 |
| | £'000 | | | 168 |
| Steel blooms, billets and slabs :— | | | | |
| Other than of special steel | Th. tons | | | 1,572.1 |
| | £'000 | | | 9,649 |
| Of special steel :— | | | | |
| Stainless and non-corrosive | Th. tons | 0.7 | — | 0.7 |
| | £'000 | 50 | — | 50 |
| Other descriptions | Th. tons | * | * | 108.2 |
| | £'000 | | | 1,149 |

| Kind of output | Unit | England and Wales | Scotland | Great Britain |
|--|----------|-------------------|----------|---------------|
| Steel bars, rods, angles, shapes and sections :— | | | | |
| Other than of special steel :— | | | | |
| Sheet bars | Th. tons | 826.1 | 28.7 | 854.8 |
| | £'000 | 4,314 | 157 | 4,471 |
| Tinplate bars | Th. tons | 949.2 | — | 949.2 |
| | £'000 | 4,827 | — | 4,827 |
| Wire rods | Th. tons | 341.2 | — | 341.2 |
| | £'000 | 2,827 | — | 2,827 |
| Bright steel bars | Th. tons | * | * | 105.4 |
| | £'000 | | | 1,638 |
| Flats | Th. tons | 245.6 | 42.8 | 288.4 |
| | £'000 | 2,021 | 325 | 2,346 |
| Other descriptions of bars and rods | Th. tons | 627.5 | 86.6 | 714.1 |
| | £'000 | 5,851 | 715 | 6,566 |
| Angles, shapes and sections :— | | | | |
| Channels :— | | | | |
| Not exceeding 3 in. web | Th. tons | * | * | 11.2 |
| | £'000 | | | 96 |
| Exceeding 3 in. web | Th. tons | | | 156.9 |
| | £'000 | | | 1,149 |
| Other descriptions | Th. tons | 503.5 | 94.9 | 598.4 |
| | £'000 | 3,977 | 728 | 4,705 |
| Of special steel :— | | | | |
| Stainless and non-corrosive | Th. tons | * | * | 6.5 |
| | £'000 | | | 742 |
| Other descriptions | Th. tons | | | 65.9 |
| | £'000 | | | 2,428 |
| Iron bars, rods, angles, shapes and sections :— | | | | |
| Puddled bars | Th. tons | * | * | 3.1 |
| | £'000 | | | 20 |
| Scrap bars | Th. tons | 11.5 | 1.0 | 12.5 |
| | £'000 | 70 | 9 | 79 |
| Other descriptions of bars and rods | Th. tons | | | 90.0 |
| | £'000 | | | 878 |
| Angles, shapes and sections | Th. tons | * | * | 39.1 |
| | £'000 | | | 374 |
| Girders, beams, joists and pillars :— | | | | |
| Fabricated | Th. tons | | | 63.3 |
| | £'000 | | | 524 |
| Not fabricated :— | | | | |
| Not exceeding 3 in. web | Th. tons | 1.8 | — | 1.8 |
| | £'000 | 14 | — | 14 |
| Exceeding 3 in. web | Th. tons | * | * | 448.1 |
| | £'000 | | | 3,102 |
| Steel arches for colliery and similar purposes† | Th. tons | | | 91.1 |
| | £'000 | | | 707 |
| Hoop and strip :— | | | | |
| Other than of special steel :— | | | | |
| Bright cold rolled | Th. tons | 89.3 | — | 89.3 |
| | £'000 | 1,723 | — | 1,723 |
| Other than bright cold rolled :— | | | | |
| Baling and barrel | Th. tons | 51.3 | — | 51.3 |
| | £'000 | 478 | — | 478 |
| For tubes :— | | | | |
| Iron | Th. tons | 26.8 | 11.6 | 38.4 |
| | £'000 | 277 | 134 | 411 |
| Steel | Th. tons | 245.4 | 14.5 | 259.9 |
| | £'000 | 1,662 | 121 | 1,783 |
| For other purposes | Th. tons | * | * | 169.8 |
| | £'000 | | | 1,549 |
| Of special steel :— | | | | |
| Stainless and non-corrosive | Th. tons | 1.8 | — | 1.8 |
| | £'000 | 299 | — | 299 |
| Other descriptions | Th. tons | 4.5 | — | 4.5 |
| | £'000 | 94 | — | 94 |

| Kind of output | Unit | England and Wales | Scotland | Great Britain |
|--|----------|-------------------|----------|---------------|
| Plates and sheets, not galvanised, not tinned, etc. :— | | | | |
| Of steel :— | | | | |
| Not under $\frac{1}{8}$ in. thick :— | | | | |
| Other than of special steel :— | | | | |
| Of $\frac{1}{8}$ in. and under $\frac{3}{16}$ in. ... | Th. tons | 70.3 | 25.9 | 96.2 |
| | £'000 | 587 | 230 | 817 |
| $\frac{3}{16}$ in. and over, including universal plates ... | Th. tons | * | * | 855.3 |
| | £'000 | | | 6,842 |
| Of special steel :— | | | | |
| Stainless and non-corrosive ... | Th. tons | 0.6 | — | 0.6 |
| | £'000 | 40 | — | 40 |
| Other, including armour plates | Th. tons | * | * | 137.6 |
| | £'000 | | | 2,084 |
| Under $\frac{1}{8}$ in. thick :— | | | | |
| Sheets :— | | | | |
| Other than of special steel ... | Th. tons | 625.0 | 61.3 | 686.3 |
| | £'000 | 7,338 | 607 | 7,945 |
| Of special steel :— | | | | |
| Stainless and non-corrosive | Th. tons | 3.5 | — | 3.5 |
| | £'000 | 496 | — | 496 |
| Other descriptions ... | Th. tons | 4.5 | — | 4.5 |
| | £'000 | 112 | — | 112 |
| Of iron :— | | | | |
| Not under $\frac{1}{8}$ in. thick ... | Th. tons | | | 1.8 |
| | £'000 | | | 26 |
| Under $\frac{1}{8}$ in. thick ... | Th. tons | | | 0.8 |
| | £'000 | | | 14 |
| Galvanised sheets :— | | | | |
| Flat ... | Th. tons | | | 97.9 |
| | £'000 | | | 1,267 |
| Corrugated ... | Th. tons | | | 288.0 |
| | £'000 | | | 3,567 |
| Railway, etc., material§:— | | | | |
| Steel rails, new :— | | | | |
| Grooved for trams ... | Th. tons | 32.6 | — | 32.6 |
| | £'000 | 287 | — | 287 |
| Railway (including conductor rails for electric traction) :— | | | | |
| Points, switches and crossings... | Th. tons | 3.4 | — | 3.4 |
| | £'000 | 199 | — | 199 |
| Other rails :— | | | | |
| Weighing over 36 lbs. per yard | Th. tons | * | * | 336.6 |
| | £'000 | | | 2,551 |
| Weighing 36 lbs. per yard and under ... | Th. tons | 34.1 | 2.6 | 36.7 |
| | £'000 | 239 | 18 | 257 |
| Sleepers ... | Th. tons | | | 21.4 |
| | £'000 | | | 150 |
| Fishplates and sole-plates ... | Th. tons | * | * | 24.1 |
| | £'000 | | | 285 |
| Tyres and axles ... | Th. tons | | | 60.2 |
| | £'000 | | | 1,158 |
| Other railway, etc., material (including railway spikes)... | Th. tons | 42.8 | 0.7 | 43.5 |
| | £'000 | 763 | 9 | 772 |
| Steel forgings, other than tyres, wheels and axles ... | Th. tons | * | * | 48.6 |
| | £'000 | | | 2,611 |
| Other smelting and rolling products ... | Th. tons | 30.6 | 1.6 | 32.2 |
| | £'000 | 1,299 | 14 | 1,313 |
| TOTAL—Smelting and rolling products ... | Th. tons | 9,517.3 | 1,191.4 | 10,708.7 |
| | £'000 | 83,735 | 10,544 | 94,279 |

| Kind of output | Unit | England and Wales | Scotland | Great Britain |
|--|-------------------------|-------------------|-----------------|-----------------|
| Other manufactures :— | | | | |
| Black plates under $\frac{1}{8}$ in. thick ... | Th. tons | 51.0 | 7.0 | 58.0 |
| | £'000 | 594 | 68 | 662 |
| Springs ... | Th. tons | 12.2 | — | 12.2 |
| | £'000 | 360 | — | 360 |
| Wrought tubes and fittings ... | Th. tons | 15.4 | — | 15.4 |
| | £'000 | 294 | — | 294 |
| Iron castings ... | Th. tons | 2.4 | 2.5 | 4.9 |
| | £'000 | 26 | 18 | 44 |
| Iron and steel wire and manufactures thereof ... | Th. tons | 3.6 | — | 3.6 |
| | £'000 | 105 | — | 105 |
| Tools and implements (including cutlery) ... | £'000 | 463 | 45 | 508 |
| Rivets, washers, nails, etc. ... | Th. tons | 5.5 | 0.4 | 5.9 |
| | £'000 | 64 | 4 | 68 |
| Machinery and plant (including military and naval stores, etc.) ... | £'000 | 449 | 22 | 471 |
| Other manufactures of metal ... | £'000 | 862 | 64 | 926 |
| Ground basic slag for manure ... | Th. tons | 103.0 | — | 103.0 |
| | £'000 | 92 | — | 92 |
| Other goods made ... | £'000 | 66 | 19 | 85 |
| TOTAL—Other manufactures ... | £'000 | 3,375 | 240 | 3,615 |
| Electricity supplied to other undertakings of the firm or to outside consumers ... | Mill. B.T.U. (Kw.-hrs.) | 241.7 | 0.9 | 242.6 |
| | £'000 | 282 | 2 | 284 |
| Scrap, waste and by-products sold :— | | | | |
| Iron and steel scrap ... | Th. tons | 486.4 | 102.2 | 588.6 |
| | £'000 | 1,418 | 299 | 1,717 |
| Scrap of non-ferrous metals... | £'000 | 63 | 11 | 74 |
| Slag, not ground ... | Th. tons | 469.9 | 82.9 | 552.8 |
| | £'000 | 182 | 7 | 189 |
| Cinder, etc. ... | Th. tons | 127.3 | 37.3 | 164.6 |
| | £'000 | 82 | 19 | 101 |
| Other waste and by-products sold ... | £'000 | 84 | 11 | 95 |
| TOTAL—Goods made for sale ... | £'000 | 89,221 | 11,133 | 100,354 |
| Work done for the trade or on commission :— | | Amount received | Amount received | Amount received |
| Tilting, rolling, etc. ... | £'000 | 742 | 5 | 747 |
| Other work (except galvanising) ... | £'000 | 157 | 5 | 162 |
| Structural work (bridge construction and steel frame-work for buildings)... | £'000 | 252¶ | — | 252¶ |
| Other work done ... | £'000 | 180 | 97 | 277 |
| TOTAL—Work done ... | £'000 | 1,331 | 107 | 1,438 |
| TOTAL—GOODS MADE AND WORK DONE ... | £'000 | 90,552 | 11,240 | 101,792 |

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† So far as recorded separately.

‡ See footnote (¶) to Table V B.

¶ See footnote (*) to Table IX.

Table III A.—Materials, fuel and electricity purchased and used

| Kind of materials, etc. | Unit | England and Wales | | | Scotland | | Great Britain | |
|--|-----------------------|-------------------|----------|---------------|----------|---------------|---------------|--|
| | | England and Wales | Scotland | Great Britain | Scotland | Great Britain | | |
| Pig iron | Th. tons | 4,139 | 367 | 4,506 | | | | |
| | £'000 | 11,795 | 1,234 | 13,029 | | | | |
| Ferro alloys | Th. tons | 130.8 | 17.1 | 147.9 | | | | |
| | £'000 | 2,412 | 267 | 2,679 | | | | |
| Scrap | Th. tons | 3,693 | 768 | 4,461 | | | | |
| | £'000 | 10,043 | 2,011 | 12,054 | | | | |
| Steel ingots | Th. tons | * | * | 473.2 | | | | |
| | £'000 | | | 2,912 | | | | |
| Steel blooms, billets and slabs... | Th. tons | 1,487 | 105 | 1,592 | | | | |
| | £'000 | 8,763 | 616 | 9,379 | | | | |
| Sheet bars | Th. tons | 891.5 | 92.4 | 983.9 | | | | |
| | £'000 | 4,817 | 466 | 5,283 | | | | |
| Other steel bars (except tinplate bars) | Th. tons | * | * | 132.2 | | | | |
| | £'000 | | | 1,260 | | | | |
| Fuel and electricity used for all purposes :— | | | | | | | | |
| Coal | Th. tons | 5,463.6 | 1,125.4 | 6,589.0 | | | | |
| | £'000 | 4,250 | 683 | 4,933 | | | | |
| Coke | Th. tons | 130.0 | 10.6 | 140.6 | | | | |
| | £'000 | 141 | 13 | 154 | | | | |
| Heavy fuel oil | Th. galls. | 2,402 | 350 | 2,752 | | | | |
| | £'000 | 32 | 6 | 38 | | | | |
| Purchased electricity† | Th. B.T.U. (Kw.-hrs.) | 592,913 | 60,393 | 653,306 | | | | |
| | £'000 | 1,103 | 121 | 1,224 | | | | |
| All other purchased materials and fuel... | £'000 | 12,894 | 1,476 | 14,370 | | | | |
| TOTAL | £'000 | 60,262 | 7,053 | 67,315 | | | | |

* Owing to the possible disclosure of information relating to individual firms, separate particulars cannot be given.

† Including electricity generated in other works under the same ownership.

Table III B.—Consumption of electricity

| Electricity consumed | England and Wales | | | Scotland | | Great Britain | |
|---|-----------------------|-----------------------|-----------------------|----------|---------------|---------------|--|
| | England and Wales | Scotland | Great Britain | Scotland | Great Britain | | |
| Generated in same works | Th. B.T.U. (Kw.-hrs.) | Th. B.T.U. (Kw.-hrs.) | Th. B.T.U. (Kw.-hrs.) | | | | |
| Generated in other works under same ownership | 350,535 | 38,776 | 389,311 | | | | |
| Purchased | 178,045 | — | 178,045 | | | | |
| | 414,868 | 60,393 | 475,261 | | | | |
| Total | 943,448 | 99,169 | 1,042,617 | | | | |

Table IV A.—Numbers employed in week ended 12th October, 1935

| Persons employed | Males | | Females | | Total | |
|------------------------------|----------|----------|----------|----------|----------|----------|
| | Under 18 | All ages | Under 18 | All ages | Under 18 | All ages |
| England and Wales :— | | | | | | |
| Operatives | 7,519 | 109,578 | 210 | 736 | 7,729 | 110,314 |
| Administrative, etc.* | 830 | 9,077 | 391 | 2,058 | 1,221 | 11,135 |
| Total | 8,349 | 118,655 | 601 | 2,794 | 8,950 | 121,449 |
| Scotland :— | | | | | | |
| Operatives | 969 | 15,063 | 37 | 83 | 1,006 | 15,146 |
| Administrative, etc.* | 91 | 1,053 | 31 | 238 | 122 | 1,291 |
| Total | 1,060 | 16,116 | 68 | 321 | 1,128 | 16,437 |
| Great Britain :— | | | | | | |
| Operatives | 8,488 | 124,641 | 247 | 819 | 8,735 | 125,460 |
| Administrative, etc.* | 921 | 10,130 | 422 | 2,296 | 1,343 | 12,426 |
| TOTAL | 9,409 | 134,771 | 669 | 3,115 | 10,078 | 137,886 |

* Administrative, technical and clerical staff.

Table IV B.—Operatives employed in one week in each month of 1935

| Week ended | Males and females | | |
|--------------------------------------|-------------------|----------|---------------|
| | England and Wales | Scotland | Great Britain |
| January 19 | 106,110 | 13,980 | 120,090 |
| February 16 | 106,299 | 14,361 | 120,660 |
| March 16 | 106,324 | 14,655 | 120,979 |
| April 13 | 105,741 | 14,865 | 120,606 |
| May 18 | 105,493 | 14,954 | 120,447 |
| June 15 | 103,763 | 15,065 | 118,828 |
| July 13 | 108,459 | 14,558 | 123,017 |
| August 17 | 107,345 | 15,070 | 122,415 |
| September 14 | 109,004 | 14,897 | 123,901 |
| October 12 | 110,314 | 15,146 | 125,460 |
| November 16 | 112,277 | 15,564 | 127,841 |
| December 14 | 113,939 | 15,990 | 129,929 |
| Average for the twelve months | 107,923 | 14,925 | 122,848 |

Table V.—Firms employing not more than ten persons on the average

| Particulars | England and Wales | | | Scotland | | Great Britain | |
|---------------------------------------|-------------------|----------|---------------|----------|---------------|---------------|--|
| | England and Wales | Scotland | Great Britain | Scotland | Great Britain | | |
| Number of returns received | No. 20 | No. 2 | No. 22 | | | | |
| Average number of persons employed :— | | | | | | | |
| Males | 120 | 5 | 125 | | | | |
| Females | 6 | — | 6 | | | | |
| Total | 126 | 5 | 131 | | | | |