

5 Metalliferous mining and quarrying

This Report on the Metalliferous Mining and Quarrying Industry relates to establishments engaged wholly or mainly in mining and quarrying iron ore and ironstone, lead, tin and other non-ferrous metals or metalliferous ores and in such ancillary activities as cleaning, washing, grading, etc, normally carried out at pits and quarries.

This industry corresponds to minimum list headings 109(1) and 109(2) in the Standard Industrial Classification (Revised 1968) which has been used for the first time as a basis of classification in the 1968 census. The definition of this industry however is unchanged from the last detailed Census of Production for 1963 in which it was reported (Part 5).

Mining and quarrying industries were excluded from the censuses for 1963 and 1968 taken in Northern Ireland and this report relates, therefore, only to Great Britain.

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

LIST OF TABLES

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

Footnotes continued from page 5/3.

(b) The following information relates to small establishments (employing fewer than 25 persons) in this industry. It includes an estimate for small establishments not making satisfactory returns.

| | 1963 | 1968 |
|--------------------------|------|------|
| Number of establishments | 26 | 27 |
| Average number employed | | |
| Working proprietors | 6 | 8 |
| Other persons employed | 237 | 236 |

(c) Sales of products are valued at ex-mine or ex-works prices, the cost of transport being shown separately.

(d) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(e) Administrative, technical and clerical employees.

(f) Excluding expenditure for establishments not yet in production.

(g) Acquisitions less disposals.

TABLE 1 Industry summary, 1963 and 1968
Great Britain (a) (b)

| | Unit | All establishments | | |
|---|-------|--|--------|--------|
| | | 1963 | 1968 | |
| Number of enterprises | No. | 22 | 22 | |
| Number of establishments | " | 67 | 59 | |
| Gross output | £'000 | 14,179 | 12,624 | |
| Net output | " | 9,816 | 9,447 | |
| Net output per head | £ | 1,557 | 2,232 | |
| Sales and work done | £'000 | goods produced and work done (c) (d) | 12,512 | 11,466 |
| | | merchanted goods and canteen takings | 22 | 17 |
| Purchases | " | materials for use in production and packaging and fuel | 2,728 | 2,298 |
| | | goods for merchandising and canteen purchases | 30 | 20 |
| Payments to other organisations | " | for work done on materials given out for transport | 21 | - |
| | | inwards on materials and fuel purchased | 6 | - |
| | | outwards on goods sold by road | 1,476 | 68 |
| | | by rail or other means excluding postal services | | |
| Value of outwards transport carried out by establishments' own employees on goods sold, by road, by rail, including that over private railway lines | " | 285 | 308 | |
| Stocks | " | - | - | |
| Total stocks | " | change during year | 220 | 26 |
| | | at end of year | 1,259 | 875 |
| Goods on hand for sale | " | change during year | 117 | 5 |
| | | at end of year | 169 | 108 |
| Materials, stores and fuel | " | change during year | 103 | 21 |
| | | at end of year | 1,090 | 767 |
| Number employed on average during the year | Th. | total, including working proprietors | 6.3 | 4.2 |
| | | operatives | 5.5 | 3.6 |
| | | other employees (e) | 0.8 | 0.7 |
| Wages and salaries | £'000 | of operatives | 4,016 | 3,671 |
| | | of other employees (e) | 844 | 873 |
| Capital expenditure (f) | " | | | |
| Total | " | 999 | 519 | |
| New building work | " | 101 | 83 | |
| Land and existing buildings (g) | " | 8 | 16 | |
| Plant and machinery (g) | " | 813 | 425 | |
| Vehicles (g) | " | 78 | 27 | |

(a) For 1968, estimates for establishments not making satisfactory returns and for small establishments, from which only employment data were collected, accounted for 4 per cent. of the total figures in which they were incorporated: of this, unsatisfactory returns accounted for less than 1 per cent. For 1963 the comparable figures were 2 per cent. and less than 1 per cent. respectively.

Footnotes continued on page 5/2.

TABLE 2 Analysis by size of establishment within the industry, 1968

(i) Output and employment

All establishments: Great Britain

| Number employed on average during the year by the establishment (a) | Estab-lish-ments | Enter-prises (b) | Total number employed on average during the year (a) | Gross output | Net output | Net output per head |
|---|------------------|------------------|--|--------------|------------|---------------------|
| | Number | Number | Number | £'000 | £'000 | £ |
| 1-5 | 6 | 6 | 18 | .. | .. | .. |
| 6-10 | 11 | 7 | 84 | .. | .. | .. |
| 11-24 | 8 | 6 | 134 | .. | .. | .. |
| 25-99 | 22 | 4 | 1,249 | 4,399 | 2,909 | 2,329 |
| 100 and over | 10 | 4 | 2,740 | 7,490 | 6,004 | 2,192 |
| Unsatisfactory returns | 2 | 2 | 8 | .. | .. | .. |
| Total | 59 | 22 | 4,233 | 12,624(c) | 9,447(c) | 2,232(c) |

(ii) Employees, wages and salaries

All establishments: Great Britain

| Number employed on average during the year by the establishment (a) | Employees | | Wages and salaries | | Wages and salaries per head | |
|---|-------------|------------|--------------------|------------|-----------------------------|------------|
| | Oper-atives | Others (d) | Oper-atives | Others (d) | Oper-atives | Others (d) |
| | Number | Number | £'000 | £'000 | £ | £ |
| 1-5 | .. | .. | .. | .. | .. | .. |
| 6-10 | .. | .. | .. | .. | .. | .. |
| 11-24 | .. | .. | .. | .. | .. | .. |
| 25-99 | 994 | 255 | 1,001 | 342 | 1,007 | 1,339 |
| 100 and over | 2,388 | 351 | 2,494 | 447 | 1,044 | 1,274 |
| Unsatisfactory returns | .. | .. | .. | .. | .. | .. |
| Total | 3,555(c) | 670(c) | 3,671(c) | 873(c) | 1,033(c) | 1,302(c) |

(a) Including working proprietors.

(b) The sum of the figures for the size groups exceeds the total for the industry to the extent that enterprises made returns for establishments in more than one size group.

(c) Including estimates for establishments employing fewer than 25 persons and for establishments not making satisfactory returns.

(d) Administrative, technical and clerical employees.

TABLE 3 Percentage analysis of employees, by age and sex, 1969 (a)

All establishments: Great Britain

| Ages | Males | Females | All employees |
|-------------|-----------|-----------|---------------|
| | Per cent. | Per cent. | Per cent. |
| Under 18 | 1 | 1 | 2 |
| 18 and over | 89 | 9 | 98 |
| All ages | 90 | 10 | 100 |

Source: Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) in the 'Other mining and quarrying industries' - minimum list heading 109 - at June 1969, the earliest date for which the information is available on the basis of the Standard Industrial Classification (Revised 1968).

Footnotes to Table 4.

(a) Some establishments employing fewer than 25 persons were included in returns for larger establishments. These amounted to 5 establishments in 1968 and 18 in 1963.

(b) Including services rendered to other organisations (amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered).

(c) Direct sales of goods (excluding canteen takings) made to, and work done for, the general public by larger establishments are included. These amounted to £6,000 in 1968. Similar information is not available for 1963.

(d) Sales of products are valued at ex-mine or ex-works prices, the cost of transport being shown separately.

(e) This is the ratio of total sales of principal products by the industry to total sales of goods produced and work done.

(f) Administrative, technical and clerical employees.

(g) Excluding expenditure for establishments not yet in production.

TABLE 4 Analysis of larger establishments, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain (a)

| | Unit | 1963 | 1968 | |
|---|--|--------|--------|--------|
| Number of enterprises | No. | 15 | 7 | |
| Number of establishments | " | 58 | 37 | |
| Gross output | £'000 | 13,959 | 12,097 | |
| Net output | " | 9,663 | 9,052 | |
| Net output per head | £ | 1,557 | 2,232 | |
| Sales and work done | { goods produced and work done (b)(c)(d) merchanted goods and canteen takings | £'000 | 12,318 | 10,987 |
| Index of specialisation (e) | Per cent. | 99 | 99 | |
| Purchases | { materials for use in production and packaging, and fuel goods for merchenting and canteen purchases | £'000 | 2,686 | 2,202 |
| Payments to other organisations | { for work done on materials given out for transport | " | 20 | - |
| | { inwards on materials and fuel purchased | " | 6 | - |
| | { outwards on goods sold by road | " | 1,453 | 65 |
| | { by rail and other means excluding postal services | " | | 738 |
| Value of outwards transport carried out by establishments' own employees on goods sold, by road, by rail, including that over private railway lines | " | 281 | 295 | |
| Stocks | | | | |
| Goods on hand for sale | { change during year | " | - 115 | - 5 |
| | { at end of year | " | 166 | 104 |
| Materials, stores and fuel | { change during year | " | - 101 | - 20 |
| | { at end of year | " | 1,073 | 735 |
| Number employed on average during the year | { total | No. | 6,205 | 4,056 |
| | { operatives | " | 5,436 | 3,436 |
| | { other employees (f) | " | 763 | 620 |
| Wages and salaries | { of operatives | £'000 | 3,958 | 3,548 |
| | { of other employees (f) | " | 832 | 807 |
| Wages and salaries per head | { operatives | £ | 728 | 1,033 |
| | { other employees (f) | " | 1,090 | 1,302 |
| Capital expenditure (g) | | | | |
| New building work | £'000 | 100 | 79 | |
| Land and existing buildings | { acquisitions | " | 25 | - |
| | { disposals | " | 17 | 16 |
| Plant and machinery | { acquisitions | " | 849 | 451 |
| | { disposals | " | 49 | 43 |
| Vehicles | { acquisitions | " | 81 | 32 |
| | { disposals | " | 5 | 6 |

For notes to this table - see page 5/5.

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

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

| | 1963 | | 1968 | | | |
|--|----------|-----------|----------|-----------|-------------|---------|
| | Quantity | Value (a) | Quantity | Value (a) | Enterprises | Entries |
| Iron ore and ironstone | Th.tons | £'000 | Th.tons | £'000 | Number | Number |
| Hematite | 562 | 2,313 | 361 | 1,524 | * | * |
| Other | | | | | | |
| Crude | 13,118 | 8,012 | 13,059 | 8,564 | * | 13 |
| Dressed or ground | 797 | 599 | | | | |
| Total iron ore and ironstone | 14,477 | 10,924 | 13,420 | 10,088 | .. | .. |
| Lead ore | .. | 27 | 5.6 | 250 | * | 5 |
| Tin ore | 1.9 | 1,141 | 2.3 | 1,959 | * | * |
| Other products, including waste products | .. | 271 | .. | 46 | * | 6 |
| Total | | 12,363 | | 12,343 | .. | .. |
| Sales in other industries (see Table 6) | | 115 | | 1,456 | .. | .. |
| Principal products of this industry sold by establishments in the industry | | 12,248 | | 10,887 | 7 | 18(b) |

(a) Sales of products by establishments classified to the mining and quarrying industries are valued at ex-mine or ex-works prices, the value of sales by other establishments being the net selling value.

(b) This figure represents the total number of returns made for larger establishments in this industry, which is less than the total number of establishments shown in Table 4 on account of combined returns covering more than one establishment.

TABLE 6 Sales of principal products of the industry by larger establishments classified to other industries, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

Sales of principal products by larger establishments classified to other industries amounted to £1,456,000 in 1968 and £115,000 in 1963. Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

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

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

| | 1963 | | 1968 | |
|---|----------|-------|----------|-------|
| | Quantity | Value | Quantity | Value |
| | Th.tons | £'000 | Th.tons | £'000 |
| Limestone or dolomite | 156 | 28 | } 395 | 87 |
| Sand and gravel | 427 | 13 | | |
| Other products | - | - | } .. | 14 |
| Services rendered to other organisations (a) | .. | 29 | | |
| Total value of goods sold without having been subjected to any manufacturing process (merchanted or factored) | | 10 | | |
| Canteen takings | | 12 | | 14 |
| Total | | 91 | | 116 |

(a) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for technical or other services rendered to other organisations.

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

This table is not applicable to this industry.

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

This table is not applicable to this industry.

TABLE 10 Purchases by larger establishments in the industry, 1963 and 1968

Establishments employing 25 or more persons: Analysis of returns received, Great Britain

| | 1963 | | 1968 | |
|--|----------|-------|----------|-------|
| | Quantity | Cost | Quantity | Cost |
| Materials for use in production | | £'000 | | £'000 |
| Explosives for blasting | .. | 450 | .. | 436 |
| Softwood, sawn or planed, but not further prepared or manufactured | .. | 48 | .. | 20 |
| Lubricating oils and greases | Th.gal. | | Th.gal. | |
| | 116 | 29 | 118 | 32 |
| | Th.cwt. | | Th.cwt. | |
| | 0.9 | 5 | 0.7 | 5 |
| Replacement parts for firms' own machinery, plant and vehicles and accessories, and consumable tools bought as replacement | | | | |
| Tyres and other spare parts for firms' own road vehicles | .. | 591 | .. | 17 |
| Other | | | .. | 406 |
| All other materials for use in production | .. | 621 | .. | 542 |
| Fuel and electricity (a) | Th.tons | | Th.tons | |
| Coal | 43.5 | 256 | 12.0 | 74 |
| Coke (including screenings) and manufactured fuel | 11.3 | 49 | .. | 6 |
| Derv fuel and motor spirit for use in road vehicles | Th.gal. | | Th.gal. | |
| | .. | 31 | .. | 32 |
| Other liquid fuels (including creosote/pitch mixtures, etc, and liquefied petroleum gases) | 553 | 42 | 1,065 | 72 |
| Gas | .. | 1 | .. | 1 |
| Electricity | Th.kWh | | Th.kWh | |
| | 100,308 | 563 | 88,564 | 557 |
| All other fuels | | (b) | .. | 1 |
| Total cost of materials and fuel | | 2,686 | | 2,202 |
| Goods purchased for merchanting | | 14 | | 2 |
| Canteen purchases | | 15 | | 18 |
| Total cost of purchases | | 2,715 | | 2,221 |

(a) Establishments classified to this industry did not record any electricity generated for 1963 or 1968.

(b) Not recorded separately for 1963.

TABLE 11 Transport costs and employment of larger establishments, 1963 and 1968

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

| | Unit | 1963 | 1968 |
|---|--|-----------------|--------------|
| Average number mainly employed on transport | No. | 37 | 11 |
| Transport costs | | | |
| Wages and salaries | £'000 | 30 | 12 |
| Derv fuel and motor spirit | " | 31 | 32 |
| Tyres and other spare parts for road goods vehicles | " | .. | 17 |
| Payments to other organisations | { inwards transport on materials and fuel purchased { outwards transport on goods sold by road by rail or other means excluding postal services | 6 | - |
| | | 1,453 | 65 |
| | | | 738 |
| Value of outwards transport carried out by establishments' own employees on goods sold, by road, by rail, including that over private railway lines | " | 281 | 295 |
| Costs of operating road goods vehicles | | | |
| Insurance | " | 2 | 1 |
| Vehicle licences | " | 2 | 2 |
| Depreciation | " | 16 | 17 |
| Payments to other organisations for repairs and maintenance | " | 2 | 1 |
| Total | " | 1,823(a) | 1,182 |

(a) Excluding tyres and other spare parts for road goods vehicles, not collected separately for 1963.

TABLE 12 Payments for certain services, etc by larger establishments, 1963 and 1968 (a)

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

| | Amounts payable | |
|--|-----------------|------------|
| | 1963 | 1968 |
| Repairs and maintenance to | £'000 | £'000 |
| Buildings | 9 | 6 |
| Road goods vehicles | 2 | 1 |
| Plant, machinery and other capital equipment | 132 | 205 |
| Insurance, licensing and depreciation of road goods vehicles (b) | 20 | 21 |
| Rates, excluding water rates | 306 | 325 |
| Hire of plant and machinery | 45 | 23 |
| Postage, telephone, telegrams, cables and telex (c) | 23 | 23 |
| Total | 537 | 604 |

(a) No deduction is made for these payments to arrive at the figures of net output given in this report.

(b) For details see Table 11.

(c) Excluding Telex for 1963.

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

Establishments employing 25 or more persons:
Analysis of returns received, Great Britain

| Year ended | Percentage of total returns received | Percentage of total number employed |
|------------|--------------------------------------|-------------------------------------|
| 1968 | Per cent. | Per cent. |
| April (a) | 5.6 | 1.1 |
| May | 0.0 | 0.0 |
| June | 0.0 | 0.0 |
| July | 0.0 | 0.0 |
| August | 0.0 | 0.0 |
| September | 61.1 | 71.0 |
| October | 0.0 | 0.0 |
| November | 0.0 | 0.0 |
| December | 16.7 | 19.3 |
| 1969 | | |
| January | 0.0 | 0.0 |
| February | 0.0 | 0.0 |
| March | 16.7 | 8.6 |
| April (b) | 0.0 | 0.0 |
| | 100 | 100 |

(a) From 6 April.

(b) To 5 April.

TABLE 13. Percentage of total resources received by total number of employees in various periods covered by returns from labor organizations, 1951 and 1952 (Q1 to Q4)

| Period | Percentage of total resources received | Total number of employees |
|-----------|--|---------------------------|
| Q1 (1951) | 0.0 | 100 |
| Q2 (1951) | 0.0 | 100 |
| Q3 (1951) | 0.0 | 100 |
| Q4 (1951) | 0.0 | 100 |
| Q1 (1952) | 0.0 | 100 |
| Q2 (1952) | 0.0 | 100 |
| Q3 (1952) | 0.0 | 100 |
| Q4 (1952) | 0.0 | 100 |