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Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production

Coal mining



Department of Trade and Industry
Business Statistics Office

PA101

Business Monitor

A publication of the Government Statistical Service

Report on the Census of Production 1971

Coal mining

Presented by the Department of Trade and Industry
to Parliament in pursuance of the Statistics of Trade Act 1947
(10 & 11 Geo. 6 Cha. 39 sec 7)

Department of Trade and Industry
Business Statistics Office

London: Her Majesty's Stationery Office 1973

Special Note for Purchasers

Commencing with the 1971 Census, the Census of Production reports will be numbered in a uniform series embracing all industrial inquiries in the Business Monitor series. These Business Monitors will have a code P (for production) followed first by A (indicating that it is an annual series) or Q (quarterly) or M (monthly): and then by a number indicating the minimum list heading, or sub-division of a minimum list heading, of the Standard Industrial Classification (Revised 1968).

The Census of Production (PA) reports are available on standing order (details on application to Her Majesty's Stationery Office, P.O. Box 569, London SE1 9NH. Telephone 01-928 6977), although they are not included in the global subscription arrangements for the Business Monitor series.

Government Statistical Service

A service of statistical information and advice is provided to the Government by specialist staffs employed in the statistics divisions of individual Departments. Statistics are made generally available through their publications and further information and advice on them can be obtained from the Departments concerned.

Enquiries:

Business Statistics Office
Cardiff Road

Newport, Mon

NPT 1XG

Newport 56111 (STD code 0633) ext 2455

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PA101 COAL MINING

The information in this report relates to undertakings of the National Coal Board and non-nationalised undertakings classified to the Coal mining industry, minimum list heading 101 in the Standard Industrial Classification (revised 1968). The activities of the industry include:-

The extraction of coal from deep mines and quarries, and the ancillary activities of cleaning, washing, grading etc. normally carried out at mines. Persons associated with coal production employed by the National Coal Board elsewhere than at the mines (i.e. by Area Boards and in Divisional and Headquarters offices), and their remuneration are in general included, but certain administrative staff associated mainly with activities other than coal production are excluded from this report. The extraction of coal from opencast workings is excluded.

This report relates to Great Britain only, as Mining and Quarrying Industries were excluded from the Northern Ireland censuses of production for 1970 and 1971.

The tables have been compiled from returns made to the Department of Trade and Industry. The figures for 1970 relate to the year ended 27 March 1971 and those for 1971 to the year ended 25 March 1972.

In interpreting the data in the tables it is essential to bear in mind the notes and definitions which commence on page (iii).

Table No	Title	Page
Section I - Estimates for all Great Britain undertakings classified to the industry		
1	Input and output, 1970 and 1971 - Undertakings classified to the industry	PA101 3
2	Capital expenditure and stocks, 1970 and 1971 - Undertakings classified to the industry	PA101 4
3	Analysis of undertakings by size, 1971 - All undertakings classified to the industry	Does not apply
4	Percentage analysis of employees by full and part time employment and sex, 1971 - undertakings classified to the industry	PA101 6
Section II - Analysis of returns received		
5	Distribution of employment, net capital expenditure and net output, by country - National Coal Board undertakings, 1971	PA101 7
6	Percentage analysis of twelve-month periods covered by returns from National Coal Board undertakings, 1971	Does not apply
7	Analysis of net output of returns received from National Coal Board undertakings, 1970 and 1971	PA101 9

TABLE 1

Input and output, 1970 and 1971

All Great Britain undertakings classified to the industry (a)(b)(c)

	Unit	1970	1971
Number of colliery units or mines (d)	Number	506	470
Sales of goods produced and work done (e)	£'000	793,349	710,066
Services rendered to other organisations (f)	"	773	1,321
Goods merchanted or factored	"	862	675
Total sales and work done	"	794,984	712,062
Increase during the year, goods on hand for sale	"	- 21,318	2,237
Increase during the year, work in progress	"	- 21	91
Gross output	"	773,645	714,390
Cost of materials and fuel used (e)(g)	"	205,810	223,108
Payments to other organisations			
for work done on materials given out	"	804	1,622
for transport by road	"	11,375	10,011
for transport by rail, water and air	"	8,406	6,087
Total costs	"	226,396	240,828
Net output	"	547,249	473,562
Net output per head	£	1,623	1,428
Total employment (h)	Number	337,112	331,538
Operatives	"	305,123	299,885
Others (j)	"	31,989	31,653
Wages and salaries			
Operatives	£'000	318,063 ^R	315,512
Others (j)	"	48,904	56,078

(a) Particulars of opencast coal production, farms, canteens etc. are excluded.

(b) National Coal Board undertakings forming part of the Coal mining industry and licensed small mines which for each census year 1970 and 1971 accounted for less than 1% of the total figures in which they are incorporated. For details of N.C.B. undertakings see table 7.

(c) The following information relates to small mines in the industry.

	1970	1971
Number of mines	207	181
Average number employed		
Working proprietors	138	124
Other persons employed	1,942	1,744

(d) The number of colliery units for administrative and accounting purposes exclusive of any mines not in active production. In some cases these units comprise more than one mine.

(e) Excluding the value of all colliery consumption of coal.

(f) Amounts charged for hiring out plant, machinery or other goods; for providing transport, or for any technical or other services rendered.

(g) Including the cost of merchanted goods.

(h) Average number of persons employed during the year.

(j) Administrative, technical and clerical employees.

TABLE 2

PA101 4

Capital expenditure and stocks, 1970 and 1971

All Great Britain undertakings classified to the industry

	1970	1971
Capital expenditure (a)	£'000	£'000
New building work	8,391	5,058
Land and existing buildings		
Acquisitions	134	165
Disposals	879	448
Plant and machinery		
Acquisitions	49,298	51,476
Disposals	949	661
Vehicles		
Acquisitions	164	138
Disposals	52	42
Total net capital expenditure (b)	56,107	55,685
Stocks and work in progress at end of year (c)		
Materials, stores and fuel	60,307	69,493
Work in progress	286	378
Goods on hand for sale	13,686	15,894
Total stocks	74,280	85,765

- (a) Capital expenditure in respect of undertakings where production had not commenced before the end of the year, is included.
- (b) Acquisitions less disposals.
- (c) The stock changes in Table 1, based on opening and closing values returned by firms, may be different from those obtained from end-year values. The differences are attributable to variation in valuation by firms between the years and to differences in respondents, and in total employment.

TABLE 3

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Analysis of undertakings by size, 1971 - All Great Britain undertakings classified to the industry.

This table is not applicable to the industry.

TABLE 4

Percentage analysis of employees, by full and part time employment and sex, 1971 (a)

All Great Britain undertakings classified to the industry

Sex	Full time	Part time	All employees
	per cent	per cent	per cent
Male	97	-	97
Female	2	1	3
	99	1	100

Source : Department of Employment

(a) The percentages relate to the numbers employed (excluding working proprietors) at mid-June, 1971.

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TABLE 5

Distribution of employment, net capital expenditure and net output, by country

Great Britain National Coal Board undertakings, 1971

Country	Average number employed	Proportion of Great Britain	Net capital expenditure (a)	Proportion of Great Britain	Net output	Proportion of Great Britain
	number	per cent	£'000	per cent	£'000	per cent
England	250,381	75.9	44,319	80.0	357,415	76.1
Wales	45,752	13.9	6,652	12.0	63,780	13.6
Scotland	33,537	10.2	4,435	8.0	48,464	10.3
Great Britain	329,670	100.0	55,406	100.0	469,659	100.0

(a) New building work, plus acquisitions less disposals of land and existing buildings, plant and machinery and vehicles.

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TABLE 6

PA101 8

Percentage analysis of twelve-month periods covered by returns from National Coal Board undertakings, 1971.

This table is not applicable to the industry.

Country	Number of colliery units or mines (b)	Number of persons employed (f)	Value of goods produced and work done (c) (£'000)	Value of services rendered to other organisations (d) (£'000)	Value of goods merchanted or factored (£'000)	Total sales and work done (£'000)	Cost of materials and fuel used (c)(e) (£'000)	Net output (£'000)	Net output per head (£)
Great Britain	299	335,032	788,405	768	862	790,035	204,540	543,693	1,623
Wales	289	329,670	704,972	1,314	675	706,961	221,999	469,659	1,424
Scotland									
England									
North									
West									
South									
London									
Yorkshire									
Other									

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NOTES

TABLE 7

Analysis of net output of returns from Great Britain National Coal Board undertakings, 1970 and 1971 (a)

	Unit	1970	1971
Number of colliery units or mines (b)	Number	299	289
Sales of goods produced and work done (c)	£'000	788,405	704,972
Services rendered to other organisations (d)	"	768	1,314
Goods merchanted or factored	"	862	675
Total sales and work done	"	790,035	706,961
Increase during the year, goods on hand for sale	"	- 21,323	2,238
Increase during the year, work in progress	"	- 20	91
Gross output	"	768,692	709,290
Cost of materials and fuel used (c)(e)	"	204,540	221,999
Payments to other organisations			
for work done on materials given out	"	799	1,614
for transport by road	"	11,305	9,961
for transport by rail, water and air	"	8,354	6,057
Total costs	"	224,999	239,631
Net output	"	543,693	469,659
Net output per head	£	1,623	1,424
Total employment (f)	Number	335,032	329,670
Operatives	"	303,181	298,141
Others (g)	"	31,851	31,529
Wages and salaries			
Operatives	£'000	316,039	313,677
Others (g)	"	48,695	55,858
Wages and salaries per head			
Operatives	£	1,042	1,052
Others (g)	"	1,529	1,772

- (a) Particulars of opencast coal production, farms, canteen etc are excluded.
- (b) The number of colliery units for administrative and accounting purposes exclusive of any mines not in active production. In some cases these units comprise more than one mine.
- (c) Excluding the value of all colliery consumption of coal.
- (d) Amounts charged for hiring out plant, machinery or other goods, for providing transport, or for any technical or other services rendered.
- (e) Including the cost of merchanted goods.
- (f) Average number of persons employed during the year.
- (g) Administrative, technical and clerical employees.

NOTES

These notes give the main information needed for interpreting the figures in the industry reports, (more detailed information about the census is given in a separate booklet—"Introductory Notes", Part PA1001 of the Report on the Census of Production for 1971).

GENERAL INFORMATION

Changes compared with 1970

The questions asked in the 1971 census were the same as those in the 1970 census with one main exception: for 1971 establishments were asked to include in capital expenditure, expenditure on units that were not in production in the year of return; for 1970 this expenditure was collected in a separate inquiry. This change of method of collection does not affect the results for 1970 and 1971 because capital expenditure for units not yet in production is included in the aggregates for both years.

Industrial classification

The Annual Censuses of Production are conducted on the Business Statistics Office's Production Register. Normally establishments on the Register are classified to industries on the basis of major activity in conformity with the third edition of the Standard Industrial Classification (revised 1968). Normally an establishment was classified to an industry if its sales of the principal products of that industry accounted for a greater proportion of its total sales than in its sales of the principal products of any other industry; classification is generally based on an establishment's returns to the quarterly production inquiry. Where this was not possible - for example where a quarterly production inquiry had not then been introduced - the classification of an establishment reflects its return to the Census of Production, 1968. Establishments for which information was not available either from the quarterly inquiries or the 1968 census were classified on the basis of the description of the business given by the establishments to the Business Statistics Office, for instance, in the course of registration.

Coverage

Detailed census returns were generally sought only from establishments employing on average 25 or more persons, but in some industries where firms employing less than 25 persons account for a relatively high proportion of total employment and output the exemption limit was lowered to 11. Census returns were also sent to establishments whose employment was not known to the Business Statistics Office at the time of despatch.

TERMS USED IN THE CENSUS REPORT

Average number employed

Undertakings were required to state the number of persons on the payroll (i.e. whose national insurance cards were held by them) on the average during the year of return, whether full time or part time employees. Separate figures were required for (a) administrative, technical and clerical employees and (b) all other employees (operatives). Averages could be calculated from figures relating to the last week of each

calendar month. The figures include persons engaged on merchanting or factoring and canteen works where particulars in respect of these activities could not be excluded from the return.

Employees

Administrative, technical and clerical employees include managing and other directors in receipt of definite wage, salary or commission, managers, superintendents and works foremen; research, experimental development, technical and design employees (other than operatives); draughtsmen and tracers; editorial staff, staff reporters, canvassers, competition and advertising staff; travellers; and office (including works office) employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power houses, transport work (including roundsmen), stores, warehouse shops and canteens; inspectors, viewers and similar workers; maintenance workers, and cleaners. Operators engaged in outside work of erecting, fitting etc. are also included.

Capital expenditure

Capital expenditure during the year in respect of manufacturing units where production had not started before the end of the year is included in the figures for both 1970 and 1971.

(a) New building work

This represents the cost incurred during the year on new building and other constructional work (including office buildings, canteens and the like used in connection with the business covered by the return, but not dwelling houses for employees). The value is that charged to capital account during the year of return; it includes expenditure on new buildings or on the extension or reconstruction of old buildings; the value of works of a capital nature carried out by the undertaking's own staff and the cost of any new constructed buildings purchased. Figures shown include any legal charges, stamp duties, agents' commissions, etc.

(b) Land and existing buildings

The items shown are the capital cost of freeholds purchased and the capital cost of premium payable for leaseholds acquired (excluding the value of any assets acquired in taking over an existing business), and amounts receivable for any freeholds or leaseholds disposed of. The value is that charged to capital account during the year of return.

(c) Plant, machinery and vehicles

The items shown are the value of plant and machinery and of vehicles acquired, both new and second-hand and the amount received for items disposed of during the year. The value of plant and machinery acquired includes plant, etc., which firms produced for their use in connection with the business covered by the return. The value of plant, etc., acquired is the expenditure charged to capital account during the year of return less any discounts received, but including the cost of transport and installation. No deduction is made for depreciation, amortization or obsolescence. The proceeds of items disposed of during the year exclude amounts written off for items scrapped.

Gross output

Gross output measures the total value of production (including work done) by undertakings during the year. It is calculated as follows:-

Value of sales and work done
Plus/Less: Increase/decrease in value of stocks of goods on hand for sale.
Plus/Less: Increase/decrease in value of work in progress.
= Gross output.

Net output

Net output represents the value added to materials by the process of production (including the margin on selling any merchant or factored goods). It is calculated as follows:-

Gross output
Less: Purchases adjusted for change in value of stocks of fuel and raw materials.
Less: Payments for work given to other establishments.
Less: Payments for transport.
= Net output.

Net output per person employed

The figures of net output per person employed are derived by dividing the net output by the average number of persons employed (full time and part time) on all activities covered by the returns, including operatives, administrative, technical and clerical employees.

Purchases

Purchases include the cost of materials and components bought for use in production; of fuel and electricity for all purposes; of packaging materials including the cost of returnable cases and containers when first purchased; of workshop materials, office materials and materials for repairs to undertaking's own buildings, plants and vehicles when carried out by their own work people included in the returns; of consumable tools; and of parts for machinery purchased during the year as replacements. Water charges are also included. In general, purchases of goods for merchanting or factoring and canteen supplies are included. Materials supplied by customers for processing are excluded, as are all purchases charged to capital account.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included only if included in the cost of materials as invoiced; amounts paid to transport organisations, including an undertaking's own separate transport organisations for delivery of materials and fuel are, therefore, excluded. Materials purchased overseas are included at the c.i.f. cost plus any duty payable if the cost of transport from the docks was not included in the invoiced price, but at their full delivery cost if invoiced 'carriage paid home'. Materials and fuel transferred from another department of the undertaking not covered by the return are included at the estimated selling value recorded by the other department.

Sales

Sales are in respect of minerals raised or goods made by the business covered by the return, or by other undertakings from materials given out to them (sometimes described as goods made on commission) and waste products. Any machinery or other capital items produced for use in the business covered by the return are included, the value being that adopted in the undertaking's asset accounts. Goods sold without being subjected to any manufacturing process (i.e. merchant or factored) and canteen takings are included.

The value shown for sales is the net selling value, defined, in the case of mine or quarry products, as the amount charged to customers whether at ex-mine or ex-quarry prices or, in the case of other goods, at ex-works prices, excluding any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packaging materials is included. Goods charged on a delivered basis to customers overseas are included at the f.o.b. value.

Goods produced in one establishment and transferred to another establishment of the same firm not covered by the return were treated as sales by the producing establishment and valued as far as possible as if they had been sold to an independent purchaser. Goods transferred to wholesale or retail selling organisations for which separate accounts were kept were valued on the same basis. To the extent that sales of minerals raised and finished products of one undertaking constitute the materials purchased by another, total figures of the value of sales (and of materials and fuel purchased) include an element of duplication. In some industries, e.g. motor vehicle manufacturing, and woollen and worsted, this duplication is substantial; and aggregates of the figures for a number of industries contain significantly greater amounts of duplication. For work done on commission, sub-contract work, etc., the value shown is the total amount charged for the work, including the value of any materials bought and used in such work.

Services rendered

This represents the amounts charged for hiring out plant, machinery and other goods, providing transport, or for any technical or other services rendered to other organisations.

Standard Industrial Classification

Industry classification is based on the Standard Industrial Classification (revised 1968). It is published by H M Stationery Office together with a separate index in the form of an alphabetical list of industries.

Stocks and work in progress

Values are given of stocks of goods on hand for sale, and of materials and fuel, at the end of the year of return, including any stocks of goods held for merchanting or factoring. Values of the change during the year are also shown. The values include duty in the case of dutiable goods held out of bond.

The value of work in progress at the end of, and the change during, the year are also usually shown. This excludes any progress payments made to sub-contractors, and no deduction is made on account of progress payments received.

Transport payments

These represent the total amount paid or credited during the year for both outwards transport of finished goods sold and inwards transport of materials and fuel purchased. They include payment to other undertakings, and to any separate transport organisation of the same undertaking not covered by the return, but exclude the value of transport services provided by the business covered by the return. The items included are payments for hired cartage and for inwards and outwards carriage by all forms of inland transport, i.e. railways, road haulage, canals, coastwise shipping, air, etc. Payments made for sea and air freight on goods sold to customers overseas and on materials and fuel purchased from overseas suppliers are excluded.

Wages and salaries

These are amounts paid during the year to operatives and to administrative, technical and clerical employees. The values shown include all overtime payments, bonuses and commissions, whether paid regularly or not, and no deduction is made for income tax, insurances, contributory pensions, etc. The value of any payments in kind, travelling expenses, lodging allowances, etc. and employers' contributions to national insurances and pension schemes is excluded.

Work given out

The figures shown represent the total amount paid for work done by other undertakings on materials supplied to them. They do not include payments for business and other services.

SYMBOLS USED

The following symbols are used throughout the report:

.. not available.

- nil or less than half the final digit shown.

R revised.

ROUNDING OF FIGURES

Figures in the tables have, where necessary been rounded to the nearest final digit; there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.

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ISBN 0 11 511243 X

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