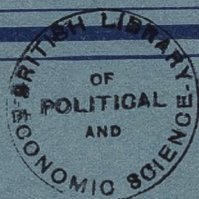


BOARD OF TRADE

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*The Report on the
Census of Production
for 1954*

12.
of



Volume 1: Industry A

COAL MINES

*Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1957

PRICE 1s 6d NET

The Report on the Census of Production for 1954

VOLUME 1, INDUSTRY A

COAL MINES

THIS REPORT on the Coal Mines Industry relates to all establishments of the National Coal Board engaged in the extraction of coal from deep mines and quarries and to other undertakings, not operated by the National Coal Board, wholly or mainly engaged in the mining or quarrying of coal. 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 open cast workings so far as recorded separately is excluded from this industry and has been included in the report on the Building and Contracting Industry (Volume 12, Industry A).

In this report the figures for the larger undertakings include all colliery units, regardless of size, of the National Coal Board together with the larger non-nationalised undertakings employing more than 10 persons on the average. The figures for small undertakings relate only to those non-nationalised undertakings which employed 10 or fewer persons on the average.

Establishments in this industry were excluded from the censuses for 1951 and 1954 taken in Northern Ireland, and no census was taken there for 1948.

This industry corresponds to minimum list heading 10 in the Standard Industrial Classification. The figures in this report are based on returns made to the Ministry of Fuel and Power.

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IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

Sales means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

COAL MINES
Industry summary
Estimates for the industry as a whole

TABLE 1

	Great Britain			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	447.5	519.9	658.6	69.93	94.48
Net output	365.0	419.3	513.4	54.44	72.89
Total stocks of saleable coal					
At beginning of year	+ 2.4	+ 2.8	+ 3.9	- 0.25	+ 0.86
Change during year	+ 0.8	+ 0.5	+ 0.1	- 0.02	+ 0.21
Capital expenditure less disposals (a)	20.8	27.6	70.5	8.30	12.31
Wages and salaries	300.4	343.8	429.4	52.13	65.27
Total employment (including working proprietors)	Thousands 763.8	Thousands 740.8	Thousands 766.1	Thousands 91.70	Thousands 121.20

(a) Capital expenditure on new building work and new and secondhand plant, machinery and vehicles (including that incurred for colliery units or mines not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

Larger undertakings (a)

TABLE 2 (i)

	Unit	Great Britain		
		1948	1951	1954
Number of colliery units or mines (b)	No.	1,181	1,062	1,091
Total value of net disposals of coal, other sales and work done (c)	£'000	446,250	518,915	657,766
Stocks of saleable coal				
{at beginning of year	..	2,416	2,794	3,884
{change during year	..	+ 812	+ 534	+ 84
Gross output (production) (d)	..	447,062	519,449	657,850
Cost of materials and fuel used (d)	..	82,432 (e)	100,567	145,083
Net output	..	364,630	418,882	512,767
Average number of employees	No.	729,021	702,978	723,293
{operatives	..	33,868 (f)	36,855	41,683
{others	..	763,025	739,958 (h)	765,108
Total employment (g)	..	763,025	739,958 (h)	765,108
Net output per person employed (g)	£	478	566	670
Wages and salaries	£'000	283,962	324,174	404,376
{of operatives	..	15,619	18,435	24,629
{others	..	268,343	305,739	379,747
Capital expenditure on	..			
New building work (i)	..	4,438	10,407 (j)	26,212 (j)
Plant and machinery	..	16,352	16,941	44,251
{acquisitions (i)	..	521	532	377
{disposals	..	597	813	395
Vehicles	..	92	40	41

(a) All colliery units, regardless of size, of the National Coal Board together with the larger non-nationalised undertakings employing more than 10 persons on the average.

(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) For details see Table 5(i) and Table 7.

(d) For the year 1948 gross output and the cost of materials and fuel used exclude coal raised and consumed at the same colliery. For subsequent years the figures exclude the value of all colliery consumption of coal.

(e) Including payment for work done on materials given out.

(f) Number in week ended September 25, 1948.

(g) Including working proprietors.

(h) Number in week ended September 22, 1951 for National Coal Board; average number employed during the year for other undertakings.

(i) Including expenditure for colliery units or mines not yet in production.

(j) Including £3,857,000 in 1951 and £8,412,000 in 1954 in respect of work other than at mines.

COAL MINES
Small undertakings (a)

TABLE 2 (ii)

	Unit	Great Britain		
		1948	1951	1954
Number of mines	No.	139	167	180
Gross output (sales)	£'000	399	446	708
Cost of materials and fuel used	"	30	38	55
Net output	"	369	408	653
Average employment (b)	No.	774	866	1,017
Males	"	765	853	1,006
Females	"	9	13	11

(a) Small non-nationalised undertakings (employing on the average 10 or fewer persons).
(b) Including working proprietors.

Analysis by size, 1954
Larger undertakings in Great Britain (a)

TABLE 3

Size of colliery units or mines Average number of wage earners employed	Colliery units or mines	Saleable output (b)	Wage earners on colliery books	Wages paid
	Number	Th.tons	Number	£'000
1 - 24	148	592	1,844	1,022
25 - 49	83	884	2,864	1,714
50 - 99	52	1,266	3,872	2,272
100 - 199	79	3,243	11,597	6,675
200 - 299	84	5,556	20,129	11,350
300 - 399	57	5,954	20,395	11,443
400 - 499	59	7,563	26,512	15,098
500 - 749	143	25,617	89,820	50,208
750 - 999	132	33,454	114,589	63,797
1,000 - 1,499	126	48,717	153,410	85,715
1,500 and over	128	80,455	254,361	144,369
Total	1,091	213,301	699,393	393,662

(a) Excluding output and wage earners at training centres and non-producing units, and operatives engaged on work not connected with coal getting, e.g. central workshops, repair and maintenance of miners' houses, in stores and warehouses.
(b) Including colliery consumption of coal.

TABLE 4 - Analysis according to specialisation within the industry, 1954

Larger undertakings in Great Britain

This table is not applicable to the industry.

Sales of the principal products of the industry
Larger undertakings in Great Britain (a)

TABLE 5 (i)

	1951		1954	
	Quantity	Value	Quantity	Value
	Th.tons	£'000	Th.tons	£'000
Disposals of coal				
Provided free	2,091	75(b)	2,056	77(b)
Provided at concessionary prices (c)	3,056	1,366	3,219	1,785
Transferred to other establishments and services (d)	2,141	5,283	2,150	7,314
Transferred to National Coal Board selling organisations	13,724	38,285	14,865	52,880
Sold commercially (e)	181,393	465,390	183,012	580,072
Total disposals	202,405	510,400	205,302	642,128
Less coal obtained from other sources (f)	1,020	2,647	849	2,779
Net disposals (g)	201,385	507,753	204,453	639,349
Work done				
Cleaning and crushing coal for other mines		119		60
Capital construction carried out by employees (h)				
At colliery units or other establishments in the coal mining industry		6,773		13,917
For other industries (including National Coal Board establishments outside coal-mining industry)		54		134
Total value of net disposals of coal and work done		514,699		653,460

(a) For sales by small undertakings see Table 5(ii).
(b) Cost of delivery by National Coal Board employees.
(c) Valued at the amounts actually received, including charges for delivery (if delivery effected by National Coal Board employees).
(d) To other collieries, to establishments in other Census industries (e.g. brickworks) and to colliery services not included in the Census returns, etc.
(e) Including commercial sales direct from National Coal Board units to consumers and distributors other than National Coal Board selling organisations.
(f) Including coal obtained from other mines or Coal Board Areas.
(g) Excluding all colliery consumption of coal, amounting in 1951 to 10,596,000 tons valued at £20,412,000 and in 1954 to 9,398,000 tons valued at £21,726,000. Coal provided free and at concessionary prices is valued at the amount actually received (including charges for delivery in the case of National Coal Board establishments); the pithead market value of free and concessionary coal was £13,738,000 for 1951 and £17,976,000 for 1954.
(h) In addition to capital work National Coal Board employees carried out repair and maintenance work to the value of £31,003,000 for 1951 and £41,842,000 for 1954.

Total sales by small undertakings in Great Britain (a)

TABLE 5 (ii)

	1951		1954	
	Quantity	Value	Quantity	Value
	Th.tons	£'000	Th.tons	£'000
Disposals of coal				
Provided free	2	-	2	-
Provided at concessionary prices	1	1	2	2
Transferred to other establishments and services	4	10	230	698
Sold commercially	176	428		
Total disposals	183	439	234	700
Less coal obtained from sources other than the mine	1	2	-	-
Net disposals	183	437	234	700
Minerals (other than coal) and other mining products	6	6	8	8
Other work done		3		-
Total		446		708

(a) Small non-nationalised undertakings (employing on the average 10 or fewer persons).

TABLE 6 - Sales of principal products of the industry by establishments classified to other industries

Larger undertakings in Great Britain

This table is not applicable to the industry. Open cast coal production is recorded in the Building and Contracting Industry (Volume 12, Industry A).

Sales in the industry of other than principal products

Larger undertakings in Great Britain (a)

TABLE 7

	1954	
	Quantity	Value
	Th.tons	£'000
Minerals other than coal	2,103	349
Electricity sold	165,042	906
Electricity transferred to other establishments under the same ownership	120,005	548
Gas, steam and compressed air sold	..	513
Other goods sold and work done	..	1,990
Total		4,306

(a) For sales by small undertakings see Table 5(ii).

TABLE 8 - Total make of intermediate products

Larger undertakings in Great Britain

This table is not applicable to the industry.

Materials and fuel purchased and used, 1954

Larger undertakings in Great Britain (a)

TABLE 9

	Quantity	Cost
	Th.stds.	£'000
National Coal Board		
Materials		
Timber		
Mining timber (props, pitwood, shoring timber, etc.)	672.8	22,011
Other	Th.cu.ft. 2,622	1,513
Iron and steel	Th.tons	
Arches and cambered girders	360	12,263
Roof bars and props	168	6,899
Straight joists and sections (including roof girders) (all unmachined)	90	2,852
Wire ropes	25	2,599
Other	126	5,739
Conveyor belting	..	16,056
Explosives	..	6,780
Insulated wires and cables	..	4,395
Spares	..	18,808
Water consumed	Th.gal. 4,309,983	259
All other purchased materials	..	29,665
Fuel and electricity	Th.tons	
Coke and coke breeze	41	182
Liquid fuels (including creosote/pitch mixtures)	Th.gal.	
For use in internal combustion engines		
Motor spirit (petrol) for use in road vehicles and deriv. fuel	2,868	515
Other	1,945	155
For burning in furnaces, boilers, kilns, etc.	191	21
Gas purchased (b)	Th.therms	
From Gas Boards	606	36
From other sources, including other works under the same ownership	17,285	185
Electricity purchased (c)	Th.kWh.	
From Electricity Boards	3,180,810	13,139
From other sources, including other works under the same ownership	50,182	212
All other purchased fuel (including open-cast coal)		350
Total		144,634
Other undertakings		449
All purchased materials and fuel used		145,083
Total National Coal Board and other undertakings		

- (a) The total cost of materials and fuel purchased and used by small undertakings in Great Britain amounted to £55,000.
(b) The total quantity of gas produced amounted to 4,629 Th.therms (including 4,488 Th.therms of methane gas) of which 3,889 Th.therms (including losses) were consumed in the same works.
(c) The total quantity of electricity generated in this industry in 1954 was 1,659,054 Th.kWh.

COAL MINES

Average number of employees, and wages, salaries
and superannuation payments

Larger undertakings in Great Britain (a)

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	702,978	723,293
Administrative, technical and clerical employees	36,855	41,683
Total	739,833(b)	764,976(c)
	£'000	£'000
Wages and salaries (d) paid to		
Operatives	324,174	404,376
Administrative, technical and clerical employees	18,435	24,629
Total	342,609	429,005
	£	£
Wages and salaries per head		
Operatives	461	559
Administrative, technical and clerical employees	502	591
		£'000
Superannuation and other pension funds for employees and dependents (e)		
Employers' contributions	..	11,555
		Number
Employees covered	..	611,000
		£'000
Pension, etc. payments to former employees and dependents	..	(f)

- (a) For employment in small undertakings (employing on the average 10 or fewer persons) that made satisfactory returns see Table 2(ii).
 (b) Number in week ended September 22, 1951 for the National Coal Board; average number employed during the year for other undertakings.
 (c) Excluding canteen workers; in the week ended October 2, 1954 the number of canteen workers employed by the National Coal Board was 3,854.
 (d) Including bonus and commission payments.
 (e) National Coal Board only. No information was collected from the non-nationalised undertakings.
 (f) No information collected.

Employment in a specified week (a)
Larger undertakings in Great Britain

TABLE 11

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors	124	1	125	130	2	132
Operatives	700,986	2,011	702,997	720,622	674	721,296
Administrative, technical and clerical employees	29,106	7,744	36,850	32,867	9,552(b)	42,419
Total employees	730,092	9,755	739,847	753,489	10,226	763,715

- (a) Week ended September 22, 1951, or October 2, 1954.
 (b) Estimated.

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