

S
42 [HA 251]



BOARD OF TRADE

THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958

Part 129

GAS



*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
1960

PRICE 1s. 9d. NET

NOTES

These notes give only the main information which is needed for interpreting the census figures. Fuller explanations are given in a separate booklet of Introductory Notes (Part 1 of the Report on the Census of Production for 1958).

TERMS USED IN THE CENSUS REPORTS

CAPITAL EXPENDITURE

The expenditure on new building work shown excludes the cost of land and existing buildings purchased; for plant, machinery and vehicles both new and second-hand items are included. The value is that charged to capital account during the year, including any transport and installation costs involved. It includes the value of work of a capital nature carried out by undertakings' own staff, and expenditure in respect of establishments in Great Britain where production had not started before the end of the year.

EMPLOYMENT

Employees are classified under the two main headings of (i) administrative, technical and clerical employees and (ii) operatives. The figures relate to persons on the pay-roll (i.e. whose National Insurance cards were held by employers), whether full-time or part-time employees.

Administrative, technical and clerical employees include managers, superintendents, and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and office (including works office) and showroom employees.

Operatives include all other classes of employees, that is, broadly speaking, all manual wage earners, including those employed in transport work and in stores and warehouses; foremen, meter readers and collectors; maintenance workers; and cleaners. Operatives engaged in outside work of erection, fitting etc. are also included.

INTERMEDIATE PRODUCTS

Figures are given showing the total quantities made during the year of important intermediate products, i.e. products which may be further processed in the establishments in which they are produced, whether or not they are also sometimes sold.

MATERIALS AND FUEL

The totals shown include the cost of all materials and components used in production, and of fuel (including electricity) for all purposes including lighting and transport (where carried out by firms' own staff included in the return); all packing materials, including the full cost of returnable cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' own buildings, plant and vehicles when carried out by their own workpeople included in the return; consumable tools; and parts for machinery purchased during the year as replacements.

The values shown include any duty paid (less rebate, etc.) but exclude trade discounts allowed. The cost of transport is included in the cost of materials.

NET OUTPUT

The net output of an industry represents the value added to materials by the process of production and includes the gross margin on any merchanted or factored goods sold; it 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. There is no appreciable duplication in net output.

Net output was obtained by taking the total value of sales and work done (including sales of appliances); adding the value of stocks of products on hand for sale at the end of the year and deducting their value at the beginning of the year; and deducting also the cost of materials and fuel used, the cost of purchased appliances, payments for work given out to other firms, and payments for transport (other than transport inwards).

NET OUTPUT PER PERSON EMPLOYED

The figures for net output per person employed are derived by dividing net output by the total number of employees.

SALES

Sales include the net selling value of gas, by-products and appliances sold, rents received and work done. Any machinery or other capital items produced for use in the business covered by the return are also included, the value being the sum of wages and the cost of materials used.

The value shown for sales is the net selling value, defined as the amount charged to customers whether on an ex-works or delivered basis, net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc.; the net amount charged for packing materials is included.

To the extent that the products of one establishment constitute the materials purchased by another, total figures of the value of sales (and of purchased materials and fuel used) include an element of duplication. Total sales of gas, however, are free of duplication, sales from one Gas Board to another having been excluded.

STOCKS

The values reported were the income tax values of stocks of products on hand for sale, and of materials and fuel, at the beginning and

end of the year of return. Stocks of appliances are excluded.

TRANSPORT PAYMENTS

These represent the total amount paid or credited during the year for transport (other than transport inwards). They include payments to other firms, and to undertakings' own separate transport organisations not covered by the returns, but exclude the value of transport services provided by undertakings' own employees which are covered by the returns. The items included are payments for hired cartage and for carriage by all forms of inland transport, that is railways, road haulage, canals, coast-wise shipping, air, etc. Payments made for sea freight on goods sold to customers overseas are excluded.

SYMBOLS USED

The following symbols are used throughout the reports:

- .. for not available
- for nil or negligible (less than half the final digit shown)

WAGES AND SALARIES

These are the 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. is excluded.

WORK GIVEN OUT

The figures shown represent the total amount paid to outside firms for renovation of appliances and for work charged to consumers for fitting and repair (including public lamps). They do not include payments for business and other services.

ROUNDING OF FIGURES

The figures in the tables have, where necessary, been rounded to the nearest final digit. There may, therefore, be apparent slight discrepancies between the sums of the constituent items and the totals shown.

The Report on the Census of Production for 1958

Part 129. GAS

This report on the Gas Industry relates to establishments engaged in the production and distribution of gas for public supply. Showrooms are included. Establishments (other than transport undertakings) producing gas primarily for their own use are excluded, being included in the industries covering the major output of the parent works.

This industry corresponds to minimum list heading 601 of the new edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census. The definition of this industry is unchanged from the last detailed Census of Production for 1954, in which it was reported on as Industry F in Volume 12.

This report covers all undertakings of the twelve Area Gas Boards together with the Gas Council, and gas undertakings in Northern Ireland.

LIST OF TABLES

Table No.	Title	Page
1	Industry summary: United Kingdom	129/3
2	Analysis by sub-divisions of the industry	Does not apply
3	Analysis by size of enterprise within the industry, 1958	Does not apply
4(A)	Sales of principal products of the industry, charges for work done and rents received	129/4
4(B)	Work of construction, repair and maintenance carried out by employees of gas undertakings	129/5
5	Sales of principal products of the industry by establishments classified to other industries	Does not apply
6	Sales of other than principal products	129/6
7	Total make of gas and intermediate products, 1958	129/7
8	Employment in the week ended October 25, 1958	129/8

GAS INDUSTRY

129/3

Industry summary: United Kingdom

TABLE 1 Estimates for all undertakings (a)

	Unit	1954	1958
Number of gas works	No.	902	555
Sales	£'000	282,314	346,725
	{ gas etc. sold and work done (b)		
	{ gas appliances	37,138	39,318
Cost of purchased materials and fuel used (c)	"	163,616	194,858
Cost of appliances, etc. sold	"	26,322	26,137
Products on hand for sale	"	- 1,671(d)	+ 1,197
	{ change during year		
	{ end of year	6,029(d)	17,291
Stocks of materials and fuel	"	- 1,230(d)	+ 47
	{ change during year		
	{ end of year	34,828(d)	31,720
Payments for work done on materials given out	"	860	1,257
Payments for transport (c)	"	3,603	3,517
Net output	"	123,380	161,471
Average number employed	No.	108,254	97,380
	{ operatives		
	{ administrative, technical and clerical employees	36,589	37,878
	{ total	144,843	135,258
Net output per person employed	£	852	1,194
Wages and salaries	£'000	50,167	58,264
	{ of operatives		
	{ of administrative, technical and clerical employees	20,207	26,834
Wages and salaries per head	£	463	598
	{ operatives		
	{ administrative, technical and clerical employees	552	708
Capital expenditure			
New building work (e)	£'000	3,508	4,144
Plant and machinery	"	31,577	22,752
	{ acquisitions (e) (f)		
	{ disposals	532	433
Mains and services	"	17,266	17,075
	{ acquisitions (e)		
	{ disposals	116	68
Ships and barges	"	871	250
	{ acquisitions (e)		
	{ disposals	55	30
Vehicles and mobile plant	"	652	1,437
	{ acquisitions (e)		
	{ disposals	67	204

(a) Particulars of canteens, sports grounds etc. are excluded.

(b) Including sales of gas and other products, charges for work done, rents received, and work of new construction. For details see Tables 4(A), 4(B) and 6.

(c) Payments for transport inwards are included in the cost of purchased materials and fuel used, and excluded from payments for transport. They amounted to £7,525,000 and £10,663,000 in 1954 and 1958 respectively.

(d) Great Britain only. No information about stocks was collected in Northern Ireland for 1954.

(e) Including expenditure in Great Britain for establishments not yet in production.

(f) Including appliances for hire and meters.

TABLE 2 - Analysis by sub-divisions of the industry

No sub-divisions of this industry were distinguished.

TABLE 3 - Analysis by size of enterprise within the industry, 1958

This table is not applicable to this industry.

Sales of principal products of the industry, charges
for work done and rents received

TABLE 4(A) All undertakings in the industry: United Kingdom

	1954		1958	
	Quantity	Value	Quantity	Value
Gas sold (a)	Th. therms	£'000	Th. therms	£'000
	2,560,785	175,495	2,582,733	226,150
Coke (b)	Th. tons		Th. tons	
	11,108	55,591	9,210	69,076
Coke breeze (b)	1,624	3,143	1,747	5,586
Coal tar (crude) (c)	1,446	8,411	1,339	10,215
	Value		Value	
	£'000		£'000	
Work done for which a direct charge was made	8,971		7,304	
Rents received (d)	8,065		7,259	
Total sales of principal products, charges for work done and rents received	259,676		325,590	

(a) Excluding gas supplied in bulk to other Boards (97 and 61 thousand therms in 1954 and 1958 respectively, valued at £4,000 in each year). These figures do not include the sales of gas recorded by undertakings classified to other industries.

(b) Sales of coke and coke breeze produced at coke ovens are included in the report on the Coke Ovens and Manufactured Fuel Industry, Part 22.

(c) On the basis of 5 per cent. water content. The figures exclude sales of coal tar (crude) at coke ovens, as follows:

	Th. tons	£'000
1954	886	5,240
1958	1,014	7,434

(d) Including:

	1954	1958
	£'000	£'000
Meter rents and prepayment supplements	6,037	4,328
Hire of appliances (excluding hire purchase payments)	2,028	2,931

Work of construction, repair and maintenance carried out by
employees of gas undertakings

TABLE 4(B) All undertakings in the industry: United Kingdom

	Value of work done (a)					
	1954			1958		
	New construction	Repair and maintenance	Total	New construction	Repair and maintenance	Total
	£'000	£'000	£'000	£'000	£'000	£'000
On depots, workshops, offices and other buildings	349	1,728	2,077	284	2,216	2,500
On plant and machinery	2,046	10,921	12,967	2,043	10,646	12,689
On gas mains and services	8,574	3,226	11,800	7,348	4,238	11,586
On ships and barges	..	..	..	-	-	-
On vehicles and mobile plant	..	..	..	4	-	4
Work charged to other Boards	10	122	132	..	..	..
Total work carried out	10,979	15,997	26,976	9,679	17,100	26,779

(a) These values represent sums calculated to cover wages, salaries and the cost of materials used.

TABLE 5 - Sales of principal products of the industry by establishments
classified to other industries

This table is not applicable to this industry. See Table 4(A) footnote (b).

Sales of other than principal products

TABLE 6 All undertakings in the industry: United Kingdom

	1954		1958	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Ammoniacal liquor (a)	61	214	114	321
Sulphate of ammonia (a)	84	1,329	70	1,175
Oil gas tar (crude)	52	315	69	530
Spent oxide	269	907	191	296
Sulphuric acid (a)	27	214	21	178
Coal tar products	Th. gal.		Th. gal.	
Creosote oils (including anthracene oil)	14,943	746	14,141	807
Creosote/pitch mixtures (made for use as fuel)	Th. tons		Th. tons	
Creosote/pitch mixtures (made for use as fuel)	121	837	128	1,139
Pitch	99	901	94	1,133
Naphthalene	7	185	9	294
Tar bases	Th. gal.		Th. gal.	
Tar bases	37	58	42	46
Tar refined (b)	Th. tons		Th. tons	
Tar refined (b)	137	1,149	94	1,050
Tar acids	Th. gal.		Th. gal.	
Crude tar acids	581	119	401	90
Other	..	406	..	441
Benzole (crude) (c)	10,538	1,054	8,576	802
Benzole products				
Benzole refined (a)	13,277	1,926	12,280	1,752
Other benzole products	4,186	697	3,701	562
Other by-products	..	588	..	808
Electricity	Th. kWh		Th. kWh	
Electricity	4,149	14	11,595	32
Total		11,659		11,456
Sales of gas appliances (d)		37,138		39,318
Total		48,797		50,774

(a) Undertakings were requested to return their figures in terms of the following equivalents:

Ammoniacal liquor in terms of 100 per cent. ammonia
Sulphate of ammonia in terms of 20.8 per cent. nitrogen.
Sulphuric acid as 100 per cent. acid.
Benzole refined in terms of motor benzole.

(b) Including mixtures containing not more than 10 per cent. of bitumen or other added materials.
(c) Including light oils distilling not less than 90 per cent. at 200°C.
(d) Including hire purchase interest.

Total make of gas and intermediate products, 1958

TABLE 7 All undertakings in the industry: United Kingdom

	Returned in this industry	
	Mn. cu. ft.	Th. therms
Gas (a)		
Coal gas	380,757	1,876,114
Oil gas	8,277	41,564
Water gas	91,056	400,818
Producer gas	9,695	19,178
Other gases produced for distribution	1,379	4,901
Total	491,164	2,342,575
Intermediate products (b)	Th. tons	
Coke	10,871	
Coke breeze	2,555	
Coal tar (crude)	1,739	
Ammoniacal liquor	267	
Sulphate of ammonia	66	
Oil gas tar (crude)	94	
Spent oxide	227	
Sulphuric acid	17	
Creosote oils	Th. gal.	
Creosote oils	22,859	
Creosote/pitch mixtures	Th. tons	
Creosote/pitch mixtures	131	
Pitch	106	
Naphthalene	9	
Tar bases	Th. gal.	
Tar bases	39	
Tar refined	Th. tons	
Tar refined	109	
Tar acids (crude)	Th. gal.	
Tar acids (crude)	2,628	
Benzole (crude)	25,339	
Benzole (refined)	11,387	
Other benzole products	4,512	
Electricity generated	Mn. kWh	
Electricity generated	153	

(a) Gas made before benzole extraction, including gas used in the works in which it was made.

(b) Great Britain only.

Employment in the week ended October 25, 1958 (a)

TABLE 8 All undertakings in the industry: United Kingdom

	Males	Females	Total
	Number	Number	Number
Operatives	94,308	2,586	96,894
Administrative technical and clerical employees	27,313	10,604	37,917
Total employees	121,621	13,190	134,811

(a) The following persons not included above, were also employed in this industry:

Canteen workers	Males 69	Females 686
Other excluded employees	Males 129	Females 27

Part

- 1 Introductory Notes
- 2 Coal Mining
- 3 Stone and Slate Quarrying and Mining
- 4 Chalk, Clay, Sand and Gravel Extraction
- 5 Metalliferous Mining and Quarrying
- 6 Salt and Miscellaneous Non-metalliferous Mining and Quarrying
- 7 Grain Milling
- 8 Bread and Flour Confectionery
- 9 Biscuits
- 10 Bacon Curing, Meat and Fish Products
- 11 Milk Products
- 12 Sugar
- 13 Cocoa, Chocolate and Sugar Confectionery
- 14 Fruit and Vegetable Products
- 15 Animal and Poultry Foods
- 16 Margarine
- 17 Starch and Miscellaneous Food Industries
- 18 Brewing and Malting
- 19 Spirit Distilling and Compounding
- 20 Soft Drinks, British Wines, Cider and Perry
- 21 Tobacco
- 22 Coke Ovens and Manufactured Fuel
- 23 Mineral Oil Refining
- 24 Lubricating Oils and Greases
- 25 Dyestuffs
- 26 Fertilizers, and Chemicals for Pest Control
- 27 Coal-tar Products
- 28 Chemicals (General)
- 29 Pharmaceutical Preparations
- 30 Toilet Preparations
- 31 Explosives and Fireworks
- 32 Paint and Printing Ink
- 33 Vegetable and Animal Oils and Fats
- 34 Soap, Detergents, Candles and Glycerine
- 35 Synthetic Resins and Plastics Materials
- 36 Polishes
- 37 Gelatine, Adhesives, etc.
- 38 Iron and Steel (General)
- 39 Steel Tubes
- 40 Iron Castings, etc.
- 41 Non-ferrous Metals
- 42 Agricultural Machinery (except Tractors)
- 43 Metal-working Machine Tools
- 44 Engineers' Small Tools and Gauges
- 45 Industrial Engines
- 46 Textile Machinery and Accessories
- 47 Contractors' Plant and Quarrying Machinery
- 48 Mechanical Handling Equipment
- 49 Office Machinery
- 50 Miscellaneous (Non-electrical) Machinery
- 51 Industrial Plant and Steelwork
- 52 Ordnance and Small Arms
- 53 General Mechanical Engineering
- 54 Scientific, Surgical and Photographic Instruments, etc.
- 55 Watches and Clocks
- 56 Electrical Machinery
- 57 Insulated Wires and Cables
- 58 Telegraph and Telephone Apparatus
- 59 Radio and Other Electronic Apparatus
- 60 Domestic Electrical Appliances
- 61 Miscellaneous Electrical Goods
- 62 Shipbuilding and Marine Engineering
- 63 Motor Vehicle Manufacturing
- 64 Motor Cycle, Three-wheel Vehicle and Pedal Cycle Manufacturing
- 65 Aircraft Manufacturing and Repairing
- 66 Locomotives and Railway Track Equipment
- 67 Railway Carriages and Wagons and Trams
- 68 Perambulators, Hand-trucks, etc.
- 69 Tools and Implements

Part

- 70 Cutlery
- 71 Bolts, Nuts, Screws, Rivets, etc.
- 72 Wire and Wire Manufactures
- 73 Cans and Metal Boxes
- 74 Jewellery, Plate and Refining of Precious Metals
- 75 Miscellaneous Metal Manufactures
- 76 Production of Man-made Fibres
- 77 Spinning and Doubling of Cotton, Flax and Man-made Fibres
- 78 Weaving of Cotton, Linen and Man-made Fibres
- 79 Woollen and Worsted
- 80 Jute
- 81 Rope, Twine and Net
- 82 Hosiery and Other Knitted Goods
- 83 Lace
- 84 Carpets
- 85 Narrow Fabrics
- 86 Household Textiles and Handkerchiefs
- 87 Canvas Goods and Sacks
- 88 Textile Finishing
- 89 Asbestos
- 90 Miscellaneous Textile Industries
- 91 Textile Converting
- 92 Leather (Tanning and Dressing) and Fellmongery
- 93 Leather Goods
- 94 Fur
- 95 Weatherproof Outerwear
- 96 Men's and Boys' Tailored Outerwear
- 97 Women's and Girls' Tailored Outerwear
- 98 Overalls and Men's Shirts, Underwear, etc.
- 99 Dresses, Lingerie, Infants' Wear, etc.
- 100 Hats, Caps and Millinery
- 101 Corsets and Miscellaneous Dress Industries
- 102 Gloves
- 103 Footwear
- 104 Bricks, Fireclay and Refractory Goods
- 105 Pottery
- 106 Glass
- 107 Cement
- 108 Abrasives
- 109 Miscellaneous Building Materials, etc.
- 110 Timber
- 111 Furniture and Upholstery
- 112 Bedding, etc.
- 113 Shop and Office Fitting
- 114 Wooden Containers and Baskets
- 115 Miscellaneous Wood and Cork Manufactures
- 116 Paper and Board
- 117 Cardboard Boxes, Cartons and Fibre-board Packing Cases
- 118 Miscellaneous Manufactures of Paper and Board
- 119 Printing and Publishing of Newspapers and Periodicals
- 120 General Printing, Publishing, Bookbinding, Engraving, etc.
- 121 Rubber
- 122 Linoleum, Leathercloth, etc.
- 123 Brushes and Brooms
- 124 Toys, Games and Sports Equipment
- 125 Miscellaneous Stationers' Goods
- 126 Plastics Moulding and Fabricating
- 127 Miscellaneous Manufacturing Industries
- 128 Construction
- 129 Gas
- 130 Electricity
- 131 Water Supply
- 132 Index of Products
- 133 Summary Volume
- 134 Summary Volume
- 135 Summary Volume

CENSUS OF PRODUCTION REPORTS FOR OTHER RECENT YEARS

The census reports for earlier years include some items which are not included in the Report on the Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial Classification.

Census of Production for 1951: Summary Tables, Part I (H.M.S.O., 1956. Price 6s. net).

No important items which do not appear in the 1958 Reports.

Census of Production for 1951: Summary Tables, Part II (H.M.S.O., 1956. Price 6s. net).

Channels of sales, 1948

Payments for services, 1948

Shift working, 1951

Power equipment, 1951

Prime movers, 1951

Analysis of periods covered by census returns, 1948 and 1951.

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and 5 volumes. (These volumes are now out of print.)

No important items which do not appear in the 1958 Reports.

The Report on the Census of Production for 1954. Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M.S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet).

Detailed information about materials and fuel purchased.

Census of Production for 1954: Summary Tables, Part I (H.M.S.O., 1958. Price 9s. net).

Fuel purchased

Gas produced in certain industries

Electricity generated, purchased and sold

Materials purchased: iron and steel; non-

ferrous metals; paint; plastics materials;

cotton and rayon, nylon, etc. textiles; timber;

packing materials; replacement parts for plant

etc. (Information about purchases of other

materials is given in The Report on the Census

of Production for 1954.)

Census of Production for 1954: Summary Tables, Part II (H.M.S.O., 1959. Price 7s. net).

Regional analyses of gross output, net output and capital expenditure.

Census of Production for 1954: Summary Tables, Part III (H.M.S.O., 1959. Price 8s. net).

Sales of particular products by certain industries in Scotland and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Introductory Notes and 5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3s. 6d. net according to size of volume).

No important items which do not appear in the 1958 Reports.

© *Crown copyright 1960*

Printed and published by
HER MAJESTY'S STATIONERY OFFICE

To be purchased from
York House, Kingsway, London w.c.2
423 Oxford Street, London w.1
13A Castle Street, Edinburgh 2
109 St. Mary Street, Cardiff
39 King Street, Manchester 2
Tower Lane, Bristol 1
2 Edmund Street, Birmingham 3
80 Chichester Street, Belfast 1
or through any bookseller

Printed in England