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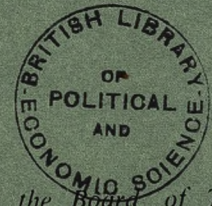
BOARD OF TRADE

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 12

Trade F

GAS SUPPLY INDUSTRY



*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

1955

TWO SHILLINGS NET

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* Not applicable to this trade

GAS SUPPLY INDUSTRY

THIS REPORT on the Gas Supply Industry relates to establishments producing and distributing gas. Establishments producing gas for use by works under the same control are excluded, being classified to the trades covering the major output of the parent works.

This trade corresponds to minimum list heading 210 in the Standard Industrial Classification.

The Gas Supply Industry in Great Britain was brought under public ownership on May 1, 1949. In this report, the 1951, 1950 and 1949 figures for larger undertakings cover all gas works, regardless of size, of the Area Gas Boards together with the larger non-nationalized undertakings in Great Britain in 1951 and 1950 and the United Kingdom in 1949.

Gross output in this trade in 1951, 1950, 1949 and 1948 is arrived at by aggregating the sales of gas, sales of coke and other by-products (adjusted for stocks), value of work charged for, rents of meters and appliances, the net receipts from the sale of appliances and the value of new constructional work carried out by employees of gas undertakings.

Figures for gas sold and gas purchased included in gross output and cost of materials used in 1951, 1950 and 1949 have been adjusted to exclude bulk intersales of gas, thus eliminating duplication. In 1951, figures for coke and coke breeze sold and purchased have also been adjusted to exclude sales between Area Gas Boards. For these reasons, particulars of gross output and cost of materials used in 1951 are not precisely comparable with those for earlier years.

Undertakings in this trade returned their materials and fuel 'purchased and used' and not 'purchased' as in other trades, with the exception of coke and other by-products which were recorded on the basis of purchases. The figures shown for stocks of coke and other by-products relate to goods purchased as well as those made by undertakings.

In 1935 information was not obtained in respect of rents received for meters and appliances or of the net receipts from the sale of appliances, and the value of new constructional work carried out by employees of gas undertakings was not included in gross and net output. It has not been possible to revise the published 1935 figures to a basis comparable to the figures for the post-war years.

IMPORTANT NOTES and definitions appear on the inside of the back cover of this report. In interpreting the data in the following tables, it is essential to bear these in mind.

GAS, ELECTRICITY AND WATER
GAS SUPPLY INDUSTRY

Summary
Larger undertakings

TABLE 1

	United Kingdom			Great Britain		United Kingdom
	1951	1950	1949	1949	1948	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	228,474	206,184	192,034	188,935	181,557	64,805
Cost of materials and fuel used	129,006	115,476	108,313	106,740	100,795	25,096
Net output	99,468	90,708	83,721	82,195	80,762	39,709
Wages and salaries of persons employed	58,111	51,921	48,631	47,903	45,292	..
Average number of persons employed (a)	No. 146,093	No. 142,585	No. 138,981	No. 136,632	No. 131,821	No. 121,249
Net output per person employed (a)	£ 681	£ 636	£ 602	£ 602	£ 613	£ 328
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Coke, coke breeze and other by-products	3,228	2,951(b)	4,595(b)	4,595	3,559	..
Materials and fuel	30,576	..	..	..	20,856	..
Number of gas works	No. 996	No. 1,025(c)	No. 891(d)	No. 873(d)	No. 705(d)	No. 697(d)

The values of gross output and of materials and fuel used are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000
Gas sold (e)	141,580	} 180,371	191,118(f)	188,018(f)	{ 111,217(g)	49,097
Coke, by-products and electricity sold (h)	60,207					
Adjustment for stocks of coke and by-products (i)	+ 254	- 1,633(b)	+ 916(b)	+ 916	+ 1,570	} 12,858
Less payments for transport outwards	2,497	..	..	..	1,570	
	199,543	178,738	..	..	158,364	61,955
Rents received (e)	8,541	} 27,447	..	..	{ 7,875	(j)
Net receipts from sale of appliances (e)	6,486					
Net value of work charged for (e)	7,197					
Work of new construction carried out by employees of Gas Undertakings (k)	6,706	..	..	..	5,486	(l)
Gross output (production)	228,474	206,184	192,034	188,935	181,557	64,805
Materials and fuel used other than coke or by-products (m)	129,648	} 115,476	108,313	106,740	{ 99,212	24,997
Coke and by-products purchased (m)	688					
Less materials supplied to contractors for capital work	1,330	..	..	..	514	..
Cost of materials and fuel used	129,006	115,476	108,313	106,740	100,795	25,096

- (a) Including working proprietors. For the total number of persons employed in this trade see Table 3.
 (b) Great Britain only.
 (c) Corrected figure.
 (d) Number of returns.
 (e) For details for 1951 and 1948 see Table 8 (Part A).
 (f) Value includes work charged for, rents received, net receipts from sale of appliances and new constructional work.
 (g) Including intersales within the industry.
 (h) For details for 1951 and 1948 see Table 8 (Part A) and Table 10.
 (i) For details for 1951 see Table 21.
 (j) Not ascertained.
 (k) For details for 1951 and 1948 see Table 8 (Part B).
 (l) Not included in gross output for 1935.
 (m) For details for 1951 and 1948 see Table 12.

Summary

Small undertakings (a)

TABLE 2

	Great Britain		United Kingdom	Great Britain	
	1951	1950(b)	1949	1949	1948
Number of returns	..	3	14	9	363
Average number of persons employed (c)					
Males	..	13	63	37	1,859
Females	..	-	2	-	128
Total	..	13	65	37	1,987

- (a) Small undertakings (employing on the average ten or fewer persons) that made satisfactory returns. No information about small undertakings was collected for 1951 or 1950.
 (b) Incomplete - small gas works of larger undertakings only.
 (c) Including working proprietors.

Estimated average employment (a)

All undertakings

TABLE 3

	United Kingdom			Great Britain	
	1951	1950	1949	1949	1948
As returned by undertakings					
Employing on the average more than ten persons (b)	146,093	142,585	138,981	136,632	131,821
Employing on the average ten or fewer persons (c)	..	13(d)	65	37	1,987
Estimated average employment in undertakings not making satisfactory returns	146,093	142,598	139,046	136,669	133,808
Average employment in all undertakings	146,093(e)	142,598(e)	139,046	136,669	133,808

- (a) Including working proprietors.
 (b) See Tables 13 (footnote (e)) and 14.
 (c) See Table 2.
 (d) Small gas works of larger undertakings only.
 (e) Excluding any small undertakings.

Analysis by size, 1951

Larger undertakings in the United Kingdom

TABLE 4

Size of gasworks Number of operatives (a)	Gasworks No.	Operatives employed (a) No.	Wages £'000	Gas sent out	
				Mill. cu. ft.	Th. therms (b)
1 - 10	319	1,556	586	4,997	22,891
11 - 24	194	3,170	1,138	12,127	53,620
25 - 49	158	5,582	2,001	28,282	137,888
50 - 99	132	9,057	3,323	49,786	231,680
100 - 199	91	12,750	4,869	84,509	398,463
200 - 299	39	9,409	3,652	63,270	301,496
300 - 399	20	7,020	2,684	47,244	225,594
400 - 499	18	7,929	3,126	54,911	258,400
500 - 749	14	8,402	3,527	68,056	331,320
750 - 999	4	3,578	1,393	16,008	73,546
1,000 - 1,499	3	3,532	1,317	19,160	92,657
1,500 - 3,999	4	8,951	3,685	54,082	245,037
Total	996	80,936	31,301	502,432	2,372,593

(a) In the week ended September 22, 1951. For undertakings other than those vested in the Area Gas Boards, the figures may include operatives engaged on work outside the gasworks.

(b) Great Britain only. The number of therms was not ascertained for Northern Ireland, but is estimated to be about 35 million therms in respect of 7,299 million cubic feet of gas sent out.

Note - In the report on this trade for 1948, the following figures should be substituted for those published in Table 4:-

	Average number employed	
	500 - 749	2,500 and over
Undertakings (number)	15	7
Gross output (£'000)	10,175	61,778
Net output (£'000)	5,437	28,764
Persons employed (number)	8,849	43,700
Remuneration (£'000)		
Wages	2,251	11,639
Salaries	603	5,147
Total	2,854	16,786
Net output per person employed (£)	614	658

Analysis by standard region, 1951

Larger undertakings in the United Kingdom

TABLE 5

Region	Gasworks No.	Gross output £'000	Net output		Persons employed No.	Remuneration			Net output per person employed £
			Value £'000	Percent- age of total		Operatives £'000	Other employees (a) £'000	Total £'000	
England									
Northern	70	9,844	4,214	4.2	7,369	2,094	640	2,735	572
East and West Ridings	72	15,044	6,496	6.5	10,629	3,062	1,019	4,081	611
North Midland	75	13,151	5,578	5.6	8,506	2,325	935	3,260	656
Eastern	86	12,696	5,479	5.5	8,048	2,160	1,053	3,213	681
London and South Eastern	92	73,894	35,878	36.1	45,876	13,417	6,287	19,704	782
Southern	53	11,758	5,151	5.2	7,457	2,031	808	2,840	691
South Western	99	13,355	5,992	6.0	8,885	2,298	983	3,281	674
Midland	72	23,343	8,576	8.6	12,766	3,796	1,409	5,205	672
North Western	90	29,299	10,440	10.5	18,694	5,349	1,929	7,278	558
Total England	709	202,383	87,804	88.3	128,230	36,532	15,063	51,595	685
Wales	85	6,520	3,258	3.3	4,666	1,258	500	1,758	698
Scotland	184	16,326	6,991	7.0	10,795	3,004	893	3,897	648
Great Britain	978	225,230	98,053	98.6	143,691	40,794	16,456	57,250	682
Northern Ireland	18	3,243	1,415	1.4	2,402	662	199	861	589
United Kingdom	996	228,474	99,468	100.0	146,093	41,456	16,655	58,111	681

(a) Administrative, technical and clerical employees.

Note - In the report on this trade for 1948, the following figures should be substituted for those published in Table 5:-

	Region	
	Northern	East and West Ridings of Yorkshire
Undertakings (number)	42	67
Gross output (£'000)	9,680	11,272
Net output		
Value (£'000)	3,607	5,916
Percentage of total	4.5	7.3
Persons employed (number)	6,032	9,574
Remuneration (£'000)		
Wages	1,468	2,428
Salaries	426	660
Total	1,894	3,088

TABLE 6 - Analysis according to specialisation within the trade, 1951

Larger undertakings in the United Kingdom

No specialisation within this trade was distinguished.

Total make of gas (a)
Larger undertakings

TABLE 7

		Great Britain (b)	
		1951	1948
		Quantity	Quantity
Coal gas	Mill. cu. ft.	399,110	349,814
	Th. therms (c)	1,969,647	1,720,773
Oil gas	Mill. cu. ft.	465	746
	Th. therms (c)	1,854	3,256
Coal gas and oil gas, unclassified	Mill. cu. ft.	-	5,048
	Th. therms (c)	-	24,751
Water gas	Mill. cu. ft.	84,106	74,711
	Th. therms (c)	366,547	326,176
Producer gas	Mill. cu. ft.	12,363	12,182
	Th. therms (c)	24,552	18,715
Other gases produced for distribution	Mill. cu. ft.	2,090	1,539
	Th. therms (c)	7,350	5,894
Total	Mill. cu. ft.	498,135	444,040
	Th. therms (c)	2,369,950	2,099,565

- (a) Gas made before benzole extraction, including gas used in the works in which it was made.
(b) Particulars of the total make of gas were not collected in Northern Ireland in 1951
(c) Based on the average calorific value.

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

TABLE 8 (Part A)

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
Gas sold (a)	Th. therms	£'000	Th. therms	£'000
	2,448,856	139,470	2,338,329	111,217
	Mill. cu. ft.				518,495
	7,229	2,110	477,264	
Coke (b)	Th. tons	42,573	Th. tons	32,680
	10,592		8,776	
Coke breeze (b)	1,454	2,045	1,114	1,525
Coal tar (crude) (c) (d)	1,367	6,257	1,125	4,877
			..	424
Ammoniacal liquor (c) (e)	56	160	75	105
Sulphate of ammonia (c) (f)	80	1,171	69	806
Total coke and other by-products		52,206		40,418

TABLE 8 (Part A) (contd.)

	United Kingdom 1951	Great Britain 1948
	Value	Value
Work done for which a direct charge was made	£'000	£'000
Fitting and repair of appliances	4,044	3,532
Repair and maintenance of public lamps	3,635	1,182
Other work charged to consumers		2,079
Work of new construction done for other undertakings	37	289(g)
Total work done for which a direct charge was made	7,716	7,084
Less amount paid to contractors for work charged to consumers	519	447
Net value of work charged for	7,197	6,636
Rents received		
Prepayment supplement	6,557	4,606
Meter rents		1,405
Hire of appliances (excluding hire purchase payments)	1,985	1,863
Total rents received	8,541	7,875
Net receipts from sales of purchased and reconditioned appliances (h)	6,486	3,197
Total of sales of principal products, value of work charged for, rents received, and net receipts from sale of appliances	216,023	169,342

- (a) These figures do not include the output of gas recorded by undertakings whose returns were made on schedules for other trades. The output of gas at coke ovens was recorded as follows:-

	Mill. cu. ft.	£'000
1951	135,631	8,556
1948	127,789	6,454

In 1948, the output of gas recorded included gas transferred to other works operated by coke ovens undertakings as well as sales to other firms and gas undertakings.

The output of gas at blast furnaces was recorded as follows:-

	Mill. cu. ft.	£'000
1951	..	5,377
1948	..	4,204

- (b) The 1951 figures exclude intersales between Area Gas Boards.

- (c) Output was returned in terms of the following equivalents:-

Coal tar (crude), on the basis of 5 per cent. water content.
Ammoniacal liquor, in terms of .880 ammonia.
Sulphate of ammonia, in terms of 20.6 per cent. nitrogen.

- (d) Excluding the output of coal tar (crude) at coke ovens which returned the following amounts:-

	Th. tons	£'000
1951	775	3,800
1948	773	3,251

- (e) Excluding the output of ammoniacal liquor at coke ovens which returned the following amounts:-

	Th. tons	£'000
1951	18	114
1948	..	14
	19	91

- (f) For the total sales of sulphate of ammonia see the report on the Fertiliser, Disinfectant, Insecticide and Allied Trades (Volume 2, Trade C).

- (g) Including work of repair and maintenance carried out for other undertakings.

- (h) Derived as follows:-

	United Kingdom 1951	Great Britain 1948
Receipts from sale of appliances (new and second-hand, including purchase tax)	£'000	£'000
Less cost of appliances (purchased or made, including purchase tax)	24,930	14,750
Less work given out	18,197	11,455
	247	98
Net receipts from sale of appliances	6,486	3,197

Work of construction, repair and maintenance carried out by employees of Gas Undertakings

Larger undertakings

TABLE 8 (Part B)

	Value of work done (a)					
	United Kingdom 1951			Great Britain 1948		
	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	209	1,411	1,620	204	941	1,145
On plant and machinery	1,936	9,408	11,344	1,557	7,363	8,920
On depots, workshops, etc., and on plant and machinery, unclassified	-	-	-	228	4,062	4,290
On gas mains and services	4,562	2,992	7,554	3,496	2,724	6,220
Total work carried out	6,706	13,811	20,518	5,486	15,090	20,576

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

TABLE 9 - Sales of principal products of the trade by establishments classified to other trades: Larger undertakings

This table is not applicable to the trade. See Table 8 (Part A), footnote (a).

Sales in the trade of other than principal products
Larger undertakings

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Oil gas tar (crude)	50	235	44	197
Spent oxide	243	706	184	323
Sulphuric acid (a)	12	99	..	(b)
Coal tar products	Th.galls.		Th.galls.	
Creosote oils (including anthracene oil)	16,270	776	18,255	548
	Th. tons		Th. tons	
Creosote/pitch mixtures (made for use as fuel)	123	802	47	273
Pitch	124	782	103	538
Naphthalene (crude) (a)	1	13	}	(b)
Naphthalene (whizzed)	2	56		
Naphthalene (hot pressed)	2	50		
Naphthalene (refined)	2	139		
Tar bases	Th.galls.		}	(b)
Pure pyridine	9	32		
Other tar bases	36	45		
Tar refined (c)	Th. tons		135	660
	100	733		

TABLE 10 (contd.)

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th.galls.	£'000		£'000
Tar acids			}	(b)
Crude tar acids	496	101		
Cresylic acid (containing 40 per cent. or more of meta-cresol)	199	61		
Cresylic acid, other refined	388	119		
High boiling tar acids	123	28		
Phenol crystals and liquified phenol	Th. tons 1	122		
Phenol mixtures (d)	-	26		
Xylenols	Th.galls. 26	10		
Other tar acids	..	6		
Benzole (crude) (e)	9,838	815			Th.galls. 15,987	1,334
Benzole products				
Benzole refined (a)	10,741	1,263	7,178	790
Toluole (a)	571	77	279	36 (f)
Xylol (a)	307	54	}	(b)
Solvent naphtha (a)	176	25		
Heavy naphtha (a)	628	69		
Other by-products	..	745	}	2,031
Electricity	Th.B.T.U. (kWh) 2,087	9		
Total		8,001		6,730

(a) Output was returned in terms of the following equivalents:-
Sulphuric acid, as 100 per cent. acid.
Naphthalene (crude), in terms of 66°C (melting point) salts.
Benzole (refined) in terms of motor benzole.
Toluole, in terms of 90's toluole.
Xylol, in terms of 3/5° xylol.
Solvent naphtha, in terms of 90/160 grade.
Heavy naphtha, in terms of 90/190 grade.

(b) Not recorded separately, value included in that shown for 'Other by-products', and Electricity.

(c) Including mixtures containing not more than 10 per cent. of bitumen or other added materials.

(d) Containing not less than 80 per cent. of phenol.

(e) Including light oils distilling not less than 90 per cent. at 200°C.

(f) Recorded as refined toluole.

Production, exports and imports of certain principal products (a)

TABLE 11

		Production (b)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Gas coke	1951	10,592	223	-
	1948	8,776	635	-
	1935	7,753 (c)	865	6

(a) Figures of production (or sales) refer only to larger undertakings in the United Kingdom (1951 and 1935) or Great Britain (1948). All recorded exports from and imports into the United Kingdom are given in the table. The figures, therefore, are not strictly comparable.

(b) Sales in 1951 and 1948, and production for sale in 1935.

(c) Including coke breeze.

Materials and fuel purchased and used
Larger undertakings

TABLE 12

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
	Th. tons	£'000	Th. tons	£'000
Materials				
Coal for all purposes (see below)				
Coke, coke breeze and other by-products	67 (a)	688 (b)	371 (a)	2,096 (b)
Gas oil	Th.galls. 132,711	7,016	Th.galls. 122,200	4,811
Gas purifying materials	..	666	..	487
Gas mains and service pipes (iron and steel)	..	4,770	Th. tons 116	2,924
Iron and steel (other than component parts and gas pipes)	..	398	13	318
Refractory bricks	..	548	45	405
All other purchased materials	..	16,112	..	19
				12,096
Gas purchased				
From gas undertakings		(c)	Mill. cu. ft. 14,540 Th. therms 70,936	2,014
From coke ovens	Mill. cu. ft. 65,174 Th. therms 328,533	4,175	Mill. cu. ft.	
From other sources	Mill. cu. ft. 762 Th. therms 8,522	241	60,269 Th. therms 229,419	3,214
Total gas purchased	Mill. cu. ft. 65,936 Th. therms 337,055	4,416 (c)	Mill. cu. ft. 74,810 Th. therms 370,355	5,229
Fuel and electricity				
Coal for all purposes	Th. tons 27,722	93,974	Th. tons 24,298	71,928
Electricity purchased (d)	Th. B.T.U. (kWh)		Th. B.T.U. (kWh)	
From public supply	180,271	859	99,268	446
From other sources	2,399	9	1,525	9
Motor spirit (petrol) and oil for diesel-engined road vehicles	Th.galls. 6,127	934	Th.galls. 4,426	399 (e)
Other oil fuel (including creosote/pitch mixtures)	2,293	100	2,360	109
All other purchased fuel	..	25	..	34
Total		130,336 (f)		101,309 (f)

- (a) The quantity figure shown relates to coke and coke breeze only.
 (b) Total purchases (not adjusted for changes in stocks) whether for re-sale or for use as materials.
 (c) Purchases of gas from other Area Gas Boards, amounting to 55,000,000 cubic feet and valued at £13,000, have been excluded in 1951.
 (d) The total quantity of electricity consumed in Great Britain in 1951 by undertakings was 273,166,000 B.T. units, including 92,429,000 generated in the same works. In 1948 the total quantity consumed in Great Britain by larger undertakings was 188,316,000 B.T. units, including 87,423,000 generated in the same works.
 (e) Used for road vehicles and other power purposes.
 (f) Including cost of materials supplied to contractors for capital work.

Employment in September
Larger undertakings (a)

TABLE 13
(i) Operatives

	United Kingdom			Great Britain		Number
	1951 (b)	1950 (b)	1949 (b)	1949 (b)	1948 (c)	1935 (c)
Males						
Under 18	3,047	2,994	2,894	2,850	2,596	3,690
All ages	107,545	107,129	105,481	103,505	101,505	95,357
Females						
Under 18	4	24	13	13	28	34
All ages	2,211	2,053	1,887	1,878	1,863	1,167
Total						
Under 18	3,051	3,018	2,907	2,863	2,624	3,724
All ages	109,756	109,182	107,368	105,383	103,368	96,524

(ii) Administrative, technical and clerical employees (d)

	United Kingdom			Great Britain		Number
	1951	1950	1949	1949	1948	1935
Males						
Under 18	886	851	696	695	499	850
All ages	26,935	25,549	23,568	23,308	21,932	20,926
Females						
Under 18	1,412	1,263	1,270	1,257	994	329
All ages	9,481	8,490	7,689	7,606	6,520	3,799
Total						
Under 18	2,298	2,114	1,966	1,952	1,493	1,179
All ages	36,416	34,039	31,257	30,914	28,452 (e)	24,725

(iii) Total employees

	United Kingdom			Great Britain		Number
	1951	1950	1949	1949	1948	1935
Males						
Under 18	3,933	3,845	3,590	3,545	3,095	4,540
All ages	134,480	132,678	129,049	126,813	123,437	116,283
Females						
Under 18	1,416	1,287	1,283	1,270	1,022	363
All ages	11,692	10,543	9,576	9,484	8,383	4,966
Total						
Under 18	5,349	5,132	4,873	4,815	4,117	4,903
All ages	146,172	143,221	138,625	136,297	131,820 (e)	121,249

(a) Excluded employees. The following persons were employed at the larger undertakings in this trade in 1951 but are not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchanting and in Northern Ireland canteen and welfare workers):-

Canteen workers 107 Males 749 Females
 Other workers 234 Males 72 Females

Employees of Area Gas Boards engaged in sales of appliances are, however, included in the Tables 13 (i), (ii) and (iii) above.

(b) In week ended September 22, 1951, September 30, 1950, and September 24, 1949.

(c) Average for the year.

(d) In week ended September 22, 1951, September 30, 1950, September 24, 1949, September 25, 1948, and October 12, 1935.

(e) There was, in addition, 1 male working proprietor in 1948. Working proprietors are included in the 1935 figures.

Average employment
Larger undertakings (a)

	United Kingdom			Great Britain		Number
	1951	1950	1949	1949	1948	United Kingdom
						1935
Operatives	110,233	109,739	107,830	105,833	103,368	96,524
Administrative, technical and clerical employees	35,860	32,846	31,151	30,799	28,452(b)	24,725(b)
Total	146,093	142,585	138,981	136,632	131,820	121,249

(a) For employment in small undertakings (employing on the average ten or fewer persons) see Table 2.
(b) In week ended September 25, 1948, and October 12, 1935. The 1935 figures include working proprietors.

Outworkers. No outworkers were recorded in this trade.

Shift working, 1951 (a)

Larger undertakings in Great Britain

TABLE 15

Kind of shift worked	Number of operatives engaged on the shift
3 shifts per day	
Morning	6,728
Afternoon	6,533
Night	6,469
2 shifts per day	
Morning	481
Afternoon	328
Night	332
Total	20,871
Total operatives in the trade	107,842
Percentage on shift work	19.4

(a) Shift working during week ended September 22, 1951.

Wages and salaries and employers' National Insurance contributions paid during the year

Larger undertakings

	United Kingdom			Great Britain		£'000
	1951	1950	1949	1949	1948	
Wages and salaries (a) of						
Operatives	41,456	37,689	35,669	35,074	33,658	
Administrative, technical and clerical employees	16,655	14,232	12,962	12,829	11,634	
Total	58,111	51,921	48,631	47,903	45,292	
Employers' contributions to all National Insurance Schemes	1,503	1,454	1,401	1,377	1,089	

(a) Including bonus and commission payments.

Plant, machinery, vehicles and appliances - acquisitions and disposals, and capital expenditure on new building work

Larger undertakings

	United Kingdom		Great Britain		£'000
	1951	1949	1949	1948	
Plant, machinery, vehicles and appliances					
Acquisitions					
Plant and machinery					
New (a)	21,101	17,608(b)	17,350(b)	15,336(b)	
Second-hand	30	59	59	166	
Meters					
New	5,332(c)	..	..	..
Second-hand	-	..	..	..
New mains and services	9,278	6,437	6,357	6,119	
New appliances for hire	774	1,471	1,452	1,364	
Vehicles					
New	929	1,122	1,117	620	
Second-hand	6	43	43	90	
Vessels					
New	297	-	-	-	
Second-hand	-	-	-	-	
Total acquisitions	37,749	26,740	26,378	23,696	
Disposals					
Plant and machinery	112	286	269	245	
Meters	285(c)	73	67	52	
Mains and services	72	130	129	126	
Appliances for hire (d)	95	70	70	57	
Vehicles	83	-	-	-	
Vessels	-	-	-	-	
Total disposals	646	559	535	481	
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	2,637	2,253	2,234	1,206	

(a) Including buildings (where buildings could not be separately evaluated) and railway sidings owned by gas undertakings.

(b) Including meters.

(c) Great Britain only. Particulars for Northern Ireland are included with those for plant and machinery.

(d) The figures for disposals represent the proceeds from sale of appliances formerly on hire that were sold without being renovated, plus the written down value of those sold after reconditioning.

GAS, ELECTRICITY AND WATER COUNTRY TABLES

GAS SUPPLY INDUSTRY

1951

Summary

Larger undertakings

TABLE 18

	England	Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production)	202,383	6,520	16,326	225,230	3,243	228,474
Cost of materials and fuel used	114,579	3,263	9,335	127,177	1,829	129,006
Net output	87,804	3,258	6,991	98,053	1,415	99,468
Wages and salaries of persons employed	51,595	1,758	3,897	57,250	861	58,111
Average number of persons employed	No. 128,230	No. 4,666	No. 10,795	No. 143,691	No. 2,402	No. 146,093
Net output per person employed	£ 685	£ 698	£ 648	£ 682	£ 589	£ 681
Stocks at end of year	£'000	£'000	£'000	£'000	£'000	£'000
Coke, coke-breeze and other by-products	2,931	41	230	3,203	25	3,228
Materials and fuel	27,960	732	1,480	30,171	405	30,576
Number of gas works	No. 709	No. 85	No. 184	No. 978	No. 18	No. 996

The values of gross output and of materials and fuel used are derived in the following way:-

Gas sold (see Table 20)	£'000 124,400	£'000 4,443	£'000 10,627	£'000 139,470	£'000 2,110	£'000 141,580
Coke by-products and electricity sold (see Table 20)	53,709	1,023	4,661	59,393	814	60,207
Adjustments for stocks of coke and by-products (see Table 21)	+ 318	+ 10	- 74	+ 255	- 1	+ 254
Less payments for transport outwards	2,199	45	249	2,492	5	2,497
Rents received (see Table 20)	176,229	5,432	14,965	196,625	2,918	199,543
Net receipts from sale of appliances (see Table 20)	7,935	262	297	8,493	48	8,541
Net value of work charged for (see Table 20)	5,925	190	338	6,453	33	6,486
Work of new construction carried out by employees of Gas undertakings (see Table 20)	6,478	343	220	7,041	156	7,197
	5,817	295	506	6,617	89	6,706
Gross output (production)	202,383	6,520	16,326	225,230	3,243	228,474
Materials and fuel used other than coke or by-products	115,238	3,274	9,310	127,823	1,825	129,648
Coke and by-products purchased	609	28	47	684	4	688
Less materials supplied to contractors for capital work	115,847	3,302	9,357	128,507	1,829	130,336
	1,268	40	22	1,330	1	1,330
Cost of materials and fuel used	114,579	3,263	9,335	127,177	1,829	129,006

TABLE 19 - Summary: Small undertakings in Great Britain

Small gas works of nationalised undertakings are included with 'Larger establishments'; returns were not collected from other establishments employing not more than ten persons on the average in 1951.

Sales, etc. in the trade
Larger undertakings

TABLE 20

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th. therms	£'000	Th. therms	£'000	Th. therms	£'000	Th. therms	£'000	Th. therms	£'000
Gas sold	2,241,990 Mill. cu. ft. 470,830	128,843	206,366 Mill. cu. ft. 47,665	10,627	2,448,856 Mill. cu. ft. 518,495	139,470	.. Mill. cu. ft. 7,299	2,110	2,448,856 Mill. cu. ft. 518,495 7,299	139,470 2,110
Coke	Th. tons 9,620	39,118	Th. tons 860	3,005	Th. tons 10,480	42,123	Th. tons 112	449	Th. tons 10,592	42,573
Coke breeze	1,234	1,715	179	273	1,413	1,988	40	57	1,454	2,045
Coal tar (crude) (a)	1,218	5,564	137	638	1,355	6,202	12	55	1,367	6,257
Ammoniacal liquor (a)	54	157	2	3	56	160	-	-	56	160
Sulphate of ammonia (a)	71	1,046	7	104	78	1,150	1	21	80	1,171
Total coke and other by-products		47,600		4,024		51,624		582		52,206
Work done for which a direct charge was made										
Fitting and repair of appliances		3,911		89		4,000		45		4,044
Repair and maintenance of public lamps		1,113		9		1,122		111		3,635
Other work charged to consumers		2,278		124		2,402				
Work of new construction done for other undertakings		37		-		37		-		37
Total work done for which a direct charge was made		7,338		222		7,560		156		7,716
Less amount paid to contractors for work charged to consumers		517		2		519		-		519
Net value of work charged for		6,821		220		7,041		156		7,197
Rents received										
Prepayment supplement		4,612		224		4,836		6		6,557
Meters rents		1,701		13		1,714				
Hire of appliances (excluding hire purchase payments)		1,883		60		1,943		41		1,985
Total rents received		8,197		297		8,493		48		8,541
Net receipts from sales of purchased and reconditioned appliances		6,115		338		6,453		33		6,486
Total sales of gas, coke and by-products, value of work charged for, rents received and net receipts from sale of appliances		197,588		15,506		213,095		2,928		216,023

TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000	Th.tons	£'000
Work of new construction, repair and maintenance										
On depots, workshops, offices and other buildings										
New construction		192		13		206		3		209
Repair and maintenance		1,256		107		1,363		48		1,411
On plant and machinery										
New construction		1,897		18		1,915		21		1,936
Repair and maintenance		8,713		521		9,233		175		9,408
On gas mains and services										
New construction		4,022		475		4,497		65		4,562
Repair and maintenance		2,622		309		2,931		61		2,992
Total new construction		6,111		506		6,617		89		6,706
Total repair and maintenance		12,591		937		13,528		283		13,811
Total work carried out		18,702		1,443		20,145		372		20,518
Total principal products - sales of gas, coke and by-products, value of work charged for, rents received, net receipts from sale of appliances and work carried out		216,290		16,950		233,240		3,301		236,541
Other output										
Oil gas tar (crude)	48	221	..	(b)	..	..	..	(b)	50	235
Spent oxide	224	650	16	47	240	697	3	9	243	706
Sulphuric acid (a)	12	99	-	-	12	99	-	-	12	99
Coal tar products	Th.galls.		Th.galls.		Th.galls.				Th.galls.	
Creosote oils (including anthracene oil)	13,563	660	2,707	117	16,270	776	-	-	16,270	776
Creosote/pitch mixtures (made for use as fuel)	113	733	10	70	123	802	-	-	123	802
Pitch	107	672	18	111	124	782	-	-	124	782
Naphthalene (crude) (a)	-	2	1	11	1	13	-	-	1	13
Naphthalene (whizzed)	2	56	-	-	2	56	-	-	2	56
Naphthalene (hot pressed)	2	50	-	-	2	50	-	-	2	50
Naphthalene (refined)	2	139	-	-	2	139	-	-	2	139
Tar bases	Th.galls.		Th.galls.		Th.galls.				Th.galls.	
Pure pyridine	9	32	-	-	9	32	-	-	9	32
Other tar bases	36	44	1	1	36	45	-	-	36	45

GAS, ELECTRICITY AND WATER COUNTRY TABLES

(3388/1)

Tar refined (c)	Th.tons	88	650	Th.tons	12	83	Th.tons	100	733	-	-	Th.tons	100	733
Tar acids	Th.galls.			Th.galls.			Th.galls.					Th.galls.		
Crude tar acids	496	101	-	-	-	-	496	101	-	-	-	496	101	
Cresylic acid (containing 40 per cent. or more of meta-cresol)	95	31	104	29	199	61	-	-	-	-	-	199	61	
Cresylic acid, other refined	292	89	95	30	388	119	-	-	-	-	-	388	119	
High boiling tar acids	-	-	123	28	123	28	-	-	-	-	-	123	28	
Phenol crystals and liquified phenol	Th.tons	1	122	Th.tons	-	-	Th.tons	1	122	-	-	Th.tons	1	122
Phenol mixtures (d)	-	-	-	26	-	26	-	-	-	-	-	-	26	
Xylenols	Th.galls.	26	10	Th.galls.	-	-	Th.galls.	26	10	-	-	Th.galls.	26	10
Other tar acids	-	-	..	6	..	6	-	-	-	-	-	..	6	
Benzole (crude) (e)	9,810	813	..	(b)	..	..	..	..	..	(b)	(b)	9,838	815
Benzole products														
Benzole refined (a)	10,714	1,260	27	3	10,741	1,263	-	-	-	-	-	10,741	1,263	
Toluole (a)	561	76	10	1	571	77	-	-	-	-	-	571	77	
Xylol (a)	296	52	11	2	307	54	-	-	-	-	-	307	54	
Solvent naphtha (a)	153	22	22	3	176	25	-	-	-	-	-	176	25	
Heavy naphtha (a)	558	63	69	7	628	69	-	-	-	-	-	628	69	
Other by-products	..	475	..	(b)	..	..	..	..	..	(b)	(b)	..	745
Electricity	Th.B.T.U. (kWh)	2,087	9	-	-	-	Th.B.T.U. (kWh)	2,087	9	-	-	Th.B.T.U. (kWh)	2,087	9
Total other output		7,132		637		7,769		232					8,001	
Total		223,423		17,586		241,009		3,533					244,541	

(a) Output was returned in terms of the following equivalents:-
 Coal tar (crude), on the basis of 5 per cent. water content.
 Ammoniacal liquor, in terms of .880 ammonia.
 Sulphate of ammonia, in terms of 20.6 per cent. nitrogen.
 Sulphuric acid, as 100 per cent. acid.
 Naphthalene (crude) in terms of 66°C (melting point) salts.
 Benzole (refined), in terms of motor benzole.
 Toluole, in terms of 90's toluole.
 Xylol, in terms of 3/5° xylol.
 Solvent naphtha, in terms of 90/160 grade.
 Heavy naphtha, in terms of 90/190 grade.

(b) Owing to the risk of disclosure of information relating to individual undertakings, separate particulars cannot be given.
 (c) Including mixtures containing not more than 10 per cent. of bitumen or other added materials.
 (d) Containing not less than 80 per cent. of phenol.
 (e) Including light oils distilling not less than 90 per cent. at 200°C.

GAS SUPPLY INDUSTRY COUNTRY TABLES

Stocks of materials and fuel
Larger undertakings

TABLE 21

	(i) at beginning of year (ii) at end of year	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Coal for all purposes	{ (i) (ii)	2,517 2,796	8,067 9,770	206 219	528 591	2,723 3,015	8,595 10,361	16 23	59 97	2,738 3,038	8,654 10,458
Gas oil for all purposes	{ (i) (ii)	Th. galls. 25,454 35,886	1,183 1,958	Th. galls. 683 962	31 41	Th. galls. 26,137 36,847	1,215 1,999	.. ..	(a) (a)	Th. galls. 26,137 36,847	1,215 1,999
Coke whether purchased or made	{ (i) (ii)	Th. tons 408 416	1,272 1,475	Th. tons 42 22	121 71	Th. tons 450 438	1,393 1,547	1 1	4 4	Th. tons 451 439	1,398 1,551
Coke breeze whether purchased or made	{ (i) (ii)	191 129	126 105	26 17	25 14	218 147	151 119	- 1	- 1	218 147	151 120
Spent oxide owned by undertakings	{ (i) (ii)	168 165	148 224	5 4	6 6	173 169	155 229	1 1	2 2	174 170	156 231
Spent oxide not owned by undertakings	{ (i) (ii)	2 2	2 6	- -	- -	2 2	2 6	- -	- -	2 2	2 6
Other by-products whether purchased or made	{ (i) (ii)		1,096 1,162		152 139		1,248 1,302		20 18		1,268 1,319
All other purchased materials and fuel	{ (i) (ii)		14,324 16,964		844 848		15,169 17,811		272 308		15,441 18,119
Total	{ (i) (ii)		26,218 31,664		1,708 1,710		27,926 33,374		357 430		28,284 33,804

(a) Not separately recorded in Northern Ireland.

GAS SUPPLY INDUSTRY COUNTRY TABLES

12/F/19

TABLE 22
Employment in September: Larger undertakings (a)(b)
(i) Operatives

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	2,839	144	2,983	64	3,047
All ages	97,026	8,616	105,642	1,903	107,545
Females					
Under 18	4	-	4	-	4
All ages	2,030	170	2,200	11	2,211
Total					
Under 18	2,843	144	2,987	64	3,051
All ages	99,056	8,786	107,842	1,914	109,756

(ii) Administrative, technical and clerical employees

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	850	27	877	9	886
All ages	25,107	1,430	26,537	398	26,935
Females					
Under 18	1,314	90	1,404	8	1,412
All ages	8,718	671	9,389	92	9,481
Total					
Under 18	2,164	117	2,281	17	2,298
All ages	33,825	2,101	35,926	490	36,416

(iii) Total employees

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Males					
Under 18	3,689	171	3,860	73	3,933
All ages	122,133	10,046	132,179	2,301	134,480
Females					
Under 18	1,318	90	1,408	8	1,416
All ages	10,748	841	11,589	103	11,692
Total					
Under 18	5,007	261	5,268	81	5,349
All ages	132,881	10,887	143,768	2,404	146,172

(a) Excluded employees. The number of persons employed at larger undertakings in this trade but not included in the above tables or in any other Census of Production report (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22 (iv). Employees of Area Gas Boards engaged in sales of appliances are, however, included in the Tables 22 (i), (ii) and (iii) above.

(b) Number employed in the week ended September 22, 1951.

(iv) Excluded employees

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers					
Males	107	-	107	-	107
Females	746	3	749	-	749
Total	853	3	856	-	856
Other workers					
Males	232	1	233	1	234
Females	70	2	72	-	72
Total	302	3	305	1	306
Total excluded employees	1,155	6	1,161	1	1,162

TABLE 23
Average employment: Larger undertakings (a)

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Operatives	99,576	8,745	108,321	1,912	110,233
Administrative, technical and clerical employees	33,320	2,050	35,370	490	35,860
Total	132,896	10,795	143,691	2,402	146,093

(a) For small undertakings see Table 19 note.

Outworkers. No outworkers were recorded in this trade.

Wages and salaries and employers' National Insurance contributions paid during the year: Larger undertakings

TABLE 24	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Wages and salaries (a) of					
Operatives	37,790	3,004	40,794	662	41,456
Administrative, technical and clerical employees	15,563	893	16,456	199	16,655
Total	53,353	3,897	57,250	861	58,111
Employers' contributions to all National Insurance Schemes	1,367	112	1,478	25	1,503

(a) Including bonus and commission payments.

Plant, machinery, vehicles and appliances - acquisitions and disposals, and capital expenditure on new building work: Larger undertakings

TABLE 25	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery, vehicles and appliances					
Acquisitions					
Plant and machinery					
New	19,453	1,335	20,787	314(a)	21,101(b)
Second-hand	29	1	30	-	30
Meters					
New	4,935	397	5,332	..	5,332(c)
Second-hand	-	-	-	-	-
New mains and services	8,751	447	9,197	81	9,278
New appliances for hire	733	25	758	17	774
Vehicles					
New	879	45	924	5	929
Second-hand	6	-	6	-	6
Vessels					
New	297	-	297	(d)	297(c)
Second-hand	-	-	-	(d)	(c)
Total acquisitions	35,082	2,249	37,332	417	37,749
Disposals					
Plant and machinery	76	8	84	28	112(b)
Meters	265	20	285	6	285(c)
Mains and services	54	12	66	1	72
Appliances for hire	88	6	93	-	95
Vehicles	79	4	83	-	83
Vessels	-	-	-	(d)	(c)
Total disposals	561	49	611	36	646
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	2,482	134	2,616	21	2,637

(a) Including meters.

(b) Including Northern Ireland meter values.

(c) Great Britain only.

(d) Not ascertained.

Payments for transport services for finished goods sold and materials and fuel purchased: Larger undertakings

TABLE 26	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings	7,013	268	7,281	32	7,313
Amounts paid or credited to undertakings' own separate transport organisations	-	-	-	-	-
Total	7,013	268	7,281	32	7,313

GENERAL NOTES

The following brief notes refer to Great Britain and, unless otherwise stated, to the census of production for 1951. Reference should be made to the separate booklet in this series entitled 'The Report on the Census of Production for 1951: Introductory Notes' (price 1s.6d. net) for particulars of the minor differences in the Northern Ireland censuses and other details about the census of production.

Trade classification: Establishments are classified to trades according to the nature of their output. Certain products, called principal products, are identified as characteristic of the production of individual trades, the principal products for a given trade being of a similar nature or commonly associated in production. An establishment is classified to a trade if its output of principal products of that trade accounted for a greater proportion of the value of its output than did its output of principal products of any other trade.

The establishment: The basic unit for the collection of information is generally the establishment which in most cases comprises the whole of the premises under the same ownership or management at a particular address (e.g., a factory). Offices, warehouses and other ancillary places of business situated apart from the producing works are included in the return for the works.

Larger establishments and small firms: Larger establishments are those which employed more than 10 persons on the average during the year; small firms are those employing on the average 10 or fewer persons.

Working proprietors are proprietors of businesses other than limited companies, and include members of their families who work in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded.

Persons employed: Administrative employees include directors other than those paid by fee only, managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; and travellers and office (including works office) employees. Operatives include all other classes of employees, that is, broadly speaking, all manual workers.

All these figures exclude canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return who are shown separately as excluded employees.

Figures for employees include only persons on the pay-roll (that is whose National Insurance cards were held by the firm), whether full-time or part-time employees.

Outworkers, who are shown separately, are persons employed by the firm who work on materials supplied by the firm, but do not work on the premises; operatives directly employed who work out of doors (e.g., maintenance workers) and sub-contractors are not included as outworkers.

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

Capital expenditure: Expenditure on plant, machinery and vehicles relates to expenditure charged to capital account during the year of return, including transport and installation costs involved. Expenditure on new building work is similarly that charged to capital account during the year.

Materials and fuel: The cost of materials and fuel purchased includes all purchases during the year of materials for use in production and of fuel (including oil, gas, and electricity for all purposes, including heating and lighting); all packing materials, including the full cost of returnable 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 work people included in the return; and consumable tools and parts for machinery purchased as replacement. Materials, components, etc. which were purchased and re-sold in the same state (that is, merchanted or factored goods) were excluded. For 1951 firms in many trades were required to state the quantities of certain purchased materials used.

Stocks and work in progress: Firms were instructed to give these at income tax value.

Output: 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. For all post-war censuses the value of sales was the net selling value, that is, 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.

Gross output of a trade is the total value of goods made and other work done during the year; this means the value of sales and work done during the year adjusted for changes in the values of stocks.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used and the amount paid for work given out and, for 1951, any transport payments included in firms' returns. 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.

Customs and Excise Duty paid on materials purchased is included in the cost of materials, but where it is especially important separate figures are shown.

Later reports: Reports will be published later summarising the main census results and giving information about power equipment and fuel consumption.

Disclosure of information: The report has been prepared in conformity with the disclosure provisions of the Statistics of Trade Act, 1947. Figures have been combined with others of a similar nature in certain cases where publication of separate details might disclose the operations of an individual firm.

Symbols used: '..' for 'Not available', '-' for 'Nil or negligible (less than half the final digit shown)'

The figures in the tables have been rounded off to the nearest final digit, and there may be an apparent slight discrepancy between the sums of the constituent items and the totals shown.

Tables 1 to 17 show figures for the United Kingdom (or Great Britain).

Tables 18 to 26 are country tables and give, where practicable, separate details for England and Wales, Scotland and Northern Ireland.

Table 6: Specialist producers refer to those establishments 50 per cent. or more of whose total output by value is accounted for by the groups of products specified.

Table 8 (or 8(i)) shows the total sales of principal products of the trade, and includes therefore the sales of these products returned by establishments whether classified to the trade or to other trades. Those produced by establishments in other trades are shown in Table 9.

Table 10 shows the sales by establishments in the trade of products other than those regarded as principal products of the trade.

Table 20 (or 20(i)) shows sales by establishments in the trade of products, whether principal products or not, and broadly the aggregates here are equal to the corresponding figures in Table 8 (or 8(i)) less those in Table 9, plus those in Table 10.

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