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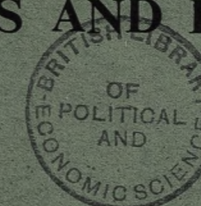
STATISTICS
BACK-UP

THE REPORT
on the
CENSUS OF PRODUCTION
FOR 1951

Volume 2

Trade A

COKE OVENS AND BY-PRODUCTS



*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

Price 1s 6d net

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* Not applicable to this trade

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COKE OVENS AND BY-PRODUCTS TRADE

THIS REPORT on the Coke Ovens and By-products Trade relates to establishments engaged wholly or mainly in the manufacture of metallurgical coke, crude coal tar, ammoniacal liquor and low temperature carbonisation products. Gas undertakings are excluded and are dealt with in the report on the Gas Supply Industry (Volume 12, Trade F).

In this trade the information collected about output was of goods made for sale in the year and that about materials and fuel related to usage in the year.

This trade corresponds to minimum list heading 30 in the Standard Industrial Classification.

There were no larger establishments in Northern Ireland in the register for this trade.

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.

CHEMICALS AND ALLIED TRADES
COKE OVENS AND BY-PRODUCTS TRADE

Summary

Larger establishments

	Great Britain					
	1951	1950	1949	1948	1937	1935
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (a)	93,773	81,356	79,738	75,149	27,354	16,495
Cost of materials and fuel used (b)	73,314	65,897	64,942	61,199	19,658	12,336
Payment for work done on materials given out	35	16	3	4	4	4
Transport payments (c)	3,602	..	..	..	..	..
Net output	16,822	15,443	14,792	13,947	7,692	4,155
Wages and salaries of persons employed	8,040	7,224	7,143	6,698	..	..
	No.	No.	No.	No.	No.	No.
Average number of persons employed	18,725	18,568	18,829	18,396	15,341	14,061
	£	£	£	£	£	£
Net output per person employed	898	832	786	758	501	296
	£'000	£'000	£'000	£'000	£'000	£'000
Stocks at end of year						
Products on hand for sale and work in progress	1,004	1,106	1,499	977	..	..
Materials and fuel	4,198	3,212	3,173	2,784	..	..
	No.	No.	No.	No.	No.	No.
Number of establishments	85	86	88	88	..	113

The value of gross output is derived in the following way:-

	£'000	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade (d)						
Principal products (e)	75,530	82,847	80,906	60,925	20,695	11,545
Other output (f)	18,221			14,643	6,659	4,950
Adjustment for work in progress (g)	+ 21	+ 10	- 3	+ 16		
	93,773	82,856	80,903	75,584	27,354	16,495
Less payment for transport outwards (c)	..	1,500	1,165	435		
Gross output (production)	93,773	81,356	79,738	75,149	27,354	16,495

- (a) Gross output for 1951 includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.
- (b) Amounts paid for delivery services are excluded for 1951 but included for other years. The information collected about the cost of materials related to usage in the year and no adjustment for stocks is therefore necessary.
- (c) Payments to other firms and undertakings and to firms' own separate transport organisations. For 1951 they cover payments for transport of both goods sold and materials and fuel purchased. For other years payments cover only transport outwards of finished goods sold.
- (d) Total value of production for sale.
- (e) For details for 1951 and 1948 see Table 8.
- (f) For details for 1951 and 1948 see Table 10.
- (g) For details for 1951 see Table 21.

TABLE 2 - Summary: Small firms

There were no small firms in the register for this trade in any year.

Estimated average employment (a): All firms

	Great Britain			
	1951	1950	1949	1948
As returned by firms				
Employing on the average more than ten persons (b)	18,725	18,568	18,829	18,396
Employing on the average ten or fewer persons	-	-	-	-
Estimated average employment in firms not making satisfactory returns	18,725	18,568	18,829	18,396
Average employment in all firms	18,725	18,568	18,829	18,396

- (a) Including working proprietors.
(b) See Table 14.

Analysis by size, 1951: Larger establishments in Great Britain

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
11 - 99	No. 9	£'000 3,055	£'000 519	No. 653	£'000 240	£'000 43	£'000 282	£ 794
100 - 199	40	29,146	5,761	5,858	2,111	427	2,538	983
200 - 299	19	23,019	3,744	4,694	1,697	362	2,059	798
300 - 399	8	13,016	2,336	2,770	995	182	1,177	843
400 - 749	9	25,537	4,463	4,750	1,573	411	1,984	939
Total	85	93,773	16,822	18,725	6,615	1,425	8,040	898

(a) Administrative, technical and clerical employees.

Analysis by standard region, 1951
Larger establishments in Great Britain

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Operatives	Other employees (a)	Total	
England	No.	£'000	£'000		No.	£'000	£'000	£'000	£
Northern	25	29,458	4,676	27.8	5,864	2,118	344	2,463	797
East and West Ridings	24	20,054	3,902	23.2	4,365	1,486	346	1,832	894
North Midland	15	19,806	3,402	20.2	3,781	1,315	385	1,700	900
London and South Eastern; Midland; and North Western	5	7,248	1,214	7.2	1,618	585	122	707	750
Eastern; Southern; and South Western	-	-	-	-	-	-	-	-	-
Total England	69	76,566	13,193	78.4	15,628	5,505	1,197	6,702	844
Wales	9	11,994	2,725	16.2	2,191	777	169	946	1,244
Scotland	7	5,213	904	5.4	906	334	58	392	998
Great Britain	85	93,773	16,822	100.0	18,725	6,615	1,425	8,040	898

(a) Administrative, technical and clerical employees.

CHEMICALS AND ALLIED TRADES

TABLE 6 - Analysis according to specialisation within the trade, 1951
Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments in Great Britain

This table is not applicable to the trade.

Production for sale of the principal products of the trade, including sales of these products by establishments classified to other trades

Larger establishments in Great Britain

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Metallurgical coke	15,499	64,515	83	14,942	53,342
Coke breeze	1,026	1,601	81	913	1,172
Coal tar, crude (on the basis of 5 per cent. water content) (a)	775	3,800	71	773	3,251
Ammoniacal liquor (in terms of .880 ammonia) (a)	18	114	16	19	91
..	..	14	..	..	..
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen) (b)	188	..	..	183	..
Smokeless fuel	..	5,594	65	..	3,333
Coal oil	..	..	..	..	..
Crude motor spirit	..	47	21	..	47
Waste products	..	..	..	..	..
Total		75,683	90		61,236
Sales in other trades (see Table 9)		154	5		311
Principal products of this trade made for sale by establishments in the trade		75,530	85		60,925

(a) Excluding the output of Gas Undertakings, which returned the following amounts:-

	1951		1948	
	Th. tons	£'000	Th. tons	£'000
Coal tar, crude	1,367	6,257	1,125	4,877
..	..	..	..	424
Ammoniacal liquor	56	160	75	105

(b) Returned in this trade only. For the total production see the Fertiliser, Disinfectant, Insecticide and Allied Trades (Volume 2, Trade C).

Sales of principal products of the trade by establishments classified to other trades

Larger establishments in Great Britain

	1951			1948	
	Quantity	Value	Entries	Quantity	Value
	Th. tons	£'000	No.	Th. tons	£'000
Metallurgical coke; and coke breeze	65	154	5	93	201
Coal tar, crude (on the basis of 5 per cent. water content)	-	-	-	26	110
Total		154	5		311

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COKE OVENS AND BY-PRODUCTS

Production for sale in the trade of other than principal products
Larger establishments in Great Britain

TABLE 10

	1951		1948	
	Quantity	Value	Quantity	Value
Benzole, crude (including light oils distilling not less than 90 per cent. at 200°C.)	Th. galls. 23,933	£'000 2,000	Th. galls. 23,883	£'000 1,976
Coal tar distillates				
Tar, refined (including mixtures containing not more than 10 per cent. of bitumen or other added material)	Th. tons 47	282	Th. tons 40	196
Creosote oils (including anthracene oil)	Th. galls. 6,925	282	Th. galls. 6,855	205
Creosote/pitch mixtures (made for use as fuel)	Th. tons 57	380	Th. tons 24	138
Naphthalene (all grades, in terms of 66°C. salts)	13	263	12	145
Pitch	44	287	71	406
Tar acids	Th. galls. 449	140	Th. galls. 337	63
Benzole products (including products from benzole derived from gas)				
Benzole, refined (in terms of motor benzole)	34,697	4,175	34,114	3,988
Toluoles, refined (in terms of 90's toluole)	4,322	684	2,898	397
Xyloles, refined (in terms of 3/50 xyloles)	1,241	221	914	144
Solvent naphtha (in terms of 90/160 grade)	648	96	464	63
Heavy naphtha (in terms of 90/190 grade)	799	113	570	76
Other distillation products	..	518	..	115
Gas sold	Mill. cu. ft. 135,631 Th. therms 696,135	8,556	Mill. cu. ft. 127,789 Th. therms 651,930	6,454
Steam and waste heat sold	..	165	..	175
Other goods, including electricity sold	..	59	..	77
Total		18,221		14,643

Production, exports and imports of certain principal products

TABLE 11

		Production (a)	Exports	Retained imports
		Th. tons	Th. tons	Th. tons
Metallurgical coke (b)	1951	15,499	176	-
	1948	14,942	139	-
	1937	15,412	1,652	52

(a) Production for sale, including production (or sales) by establishments classified to other trades.
(b) The figures for 1937 include coke breeze.

TABLE 12 - Usage of certain specified purchased materials, 1951
Larger establishments in Great Britain

No information on usage of materials was required from this trade.

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CHEMICALS AND ALLIED TRADES

Employment in September
Larger establishments (a)

TABLE 13

(i) Operatives

	Great Britain					
	1951(b)	1950(b)	1949(b)	1948(c)	1937(c)	1935(c)
Males						
Under 18	292	284	313	349	382	276
All ages	16,020	15,823	16,298	15,705	-14,060	12,858
Females						
Under 18	6	6	7	-	-	-
All ages	72	68	82	58	16	21
Total						
Under 18	298	290	320	349	382	276
All ages	16,092	15,891	16,380	15,763	14,076	12,879

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

	Great Britain					
	1951	1950	1949	1948	1937	1935
Males						
Under 18	111	120	101	127	120	82
All ages	2,526	2,381	2,346	2,290	1,171	1,091
Females						
Under 18	58	54	48	64	12	10
All ages	358	339	354	343	94	91
Total						
Under 18	169	174	149	191	132	92
All ages	2,884(e)	2,720(e)	2,700(e)	2,633(e)	1,265	1,182

(iii) Total employees

	Great Britain					
	1951	1950	1949	1948	1937	1935
Males						
Under 18	403	404	414	476	502	358
All ages	18,546	18,204	18,644	17,995	15,231	13,949
Females						
Under 18	64	60	55	64	12	10
All ages	430	407	436	401	110	112
Total						
Under 18	467	464	469	540	514	368
All ages	18,976(e)	18,611(e)	19,080(e)	18,396(e)	15,341	14,061

(a) Excluded employees. The following persons were employed at the larger establishments in this trade in 1951 but are not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising):-

Canteen workers	7	Males	62	Females	
Other workers	10	Males	25	Females	

(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, October 16, 1937 and October 12, 1935.

(e) Working proprietors. No working proprietors were recorded for any post-war year. The 1937 and 1935 figures include any working proprietors.

COKE OVENS AND BY-PRODUCTS

Average employment
Larger establishments

TABLE 14

	Great Britain					
	1951	1950	1949	1948	1937	1935
Operatives	15,876	15,859	16,165	15,763	14,076	12,879
Administrative, technical and clerical employees	2,849	2,709	2,664	2,633(a)	1,265(a)	1,182(a)
Total	18,725	18,568	18,829	18,396	15,341	14,061

(a) In week ended September 25, 1948, October 16, 1937, and October 12, 1935. The 1937 and 1935 figures include any working proprietors.

Outworkers. No outworkers were recorded in this trade.

Shift working, 1951 (a)

Larger establishments in Great Britain

TABLE 15

	Total number of man-shifts worked in the week	Total number of shift-hours worked in the week	Number of returns showing the systems stated
Continuous 3 shift systems per 24 hours averaging 8 hours per shift	41,767	334,132	82
Continuous 4 shift systems per 24 hours averaging 6 hours per shift	-	-	-
All 2 shift systems	248	2,831	2
Other shift systems	-	-	-
Total	42,015	336,963	(b)

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

(b) The number and percentage of returns showing shift working and of operatives on shift-work were as follows:-

	Returns		Operatives		
	Total in trade	Showing shift-work	Total in trade	Total on returns showing shift-work	Number employed on shift-work
Number	85	84	16,092	16,003	7,989
Percentage of total in trade	100.0	98.8	100.0	99.4	49.6
Percentage of total on returns showing shift-work				100.0	49.9

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

Larger establishments

£'000

	Great Britain			
	1951	1950	1949	1948
Wages and salaries (a) of				
Operatives	6,615	5,958	5,957	5,600
Administrative, technical and clerical employees	1,425	1,265	1,185	1,098
Total	8,040	7,224	7,143	6,698
Employers' contributions to all National Insurance Schemes	194	188	193	150

(a) Including bonus and commission payments.

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

Larger establishments

£'000

	Great Britain		
	1951	1949	1948
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery	3,926	2,023	1,365
New	7	62	25
Second-hand			
Vehicles	12	18	12
New	4	2	6
Second-hand			
Total acquisitions	3,949	2,105	1,408
Disposals			
Plant and machinery	32	54	36
Vehicles	-	3	11
Total disposals	33	58	47
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	589	219	117

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1951

Summary

Larger establishments

TABLE 18

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (production)	76,566	11,994	5,213	93,773
Cost of materials and fuel used	60,442	8,751	4,121	73,314
Payment for work done on materials given out	35	-	-	35
Transport payments	2,896	518	188	3,602
Net output	13,193	2,725	904	16,822
Wages and salaries of persons employed	6,702	946	392	8,040
	No.	No.	No.	No.
Average number of persons employed	15,628	2,191	906	18,725
	£	£	£	£
Net output per person employed	844	1,244	998	898
	£'000	£'000	£'000	£'000
Stocks at end of year				
Products on hand for sale and work in progress	829	90	85	1,004
Materials and fuel	3,516	495	187	4,198
	No.	No.	No.	No.
Number of establishments	69	9	7	85

The value of gross output is derived in the following way:-

	£'000	£'000	£'000	£'000
Output of firms in this trade				
Total value of production for sale (see Table 20)	76,552	11,986	5,213	93,751
Adjustment for work in progress (see Table 21)	+ 13	+ 8	-	+ 21
Gross output (production)	76,566	11,994	5,213	93,773

TABLE 19 - Summary: Small firms

There were no small firms in the register for this trade.

Production for sale in the trade: Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
Principal products	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Metallurgical coke: and coke breeze	15,512	62,065	947	3,897	16,460	65,962
Coal tar, crude (on the basis of 5 per cent. water content)	730	3,588	44	212	775	3,800
Ammoniacal liquor (in terms of .880 ammonia)	18	113	-	1	18	114
	..	14			..	14
Sulphate of ammonia (in terms of 20.6 per cent. nitrogen)	176		12	185	188	
Smokeless fuel	..		-	-	..	
Coal oil	..	5,409	-	-	..	5,594
Crude motor spirit	..		-	-	..	
Waste products	..	45	..	2	..	47
Total principal products		71,233		4,297		75,530

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TABLE 20 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value £'000	Quantity	Value £'000	Quantity	Value £'000
Other output						
Benzole, crude (including light oils distilling not less than 90 per cent. at 200° C.)	..	(a)	..	(a)	23,933	2,000
Coal tar distillates	Th. tons		Th. tons		Th. tons	
Tar, refined (including mixtures containing not more than 10 per cent. of bitumen or other added material)	44	261	3	21	47	282
Creosote oils (including anthracene oil)	Th. galls. 6,577	259	Th. galls. 348	23	Th. galls. 6,925	282
Creosote/pitch mixtures (made for use as fuel)	Th. tons 57	380	Th. tons -	-	Th. tons 57	380
Naphthalene (all grades, in terms of 66° C. salts)	12	258	-	5	13	263
Pitch	42	275	2	12	44	287
Tar acids	Th. galls. 449	140	Th. galls. -	-	Th. galls. 449	140
Benzole products (including products from benzole derived from gas)						
Benzole, refined (in terms of motor benzole)	32,300	3,883	2,396	291	34,697	4,175
Toluoles, refined (in terms of 90's toluole)	..	(a)	..	(a)	4,322	684
Xyloles, refined (in terms of 3/50 xyloles)	..	(a)	..	(a)	1,241	221
Solvent naphtha (in terms of 90/160 grade)	648	96	-	-	648	96
Heavy naphtha (in terms of 90/190 grade)	780	110	19	2	799	113
Other distillation products	..	503	..	14	..	518
Gas sold	Mill. cu. ft. 128,320 Th. therms 658,586	8,139	Mill. cu. ft. 7,311 Th. therms 37,549	417	Mill. cu. ft. 135,631 Th. therms 696,135	8,556
Steam and waste heat sold	..	165	-	-	..	165
Other goods, including electricity sold	..	59	..	1	..	59
Total		88,538		5,213		93,751

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Stocks of products on hand for sale and work in progress,
and stocks of materials and fuel
Larger establishments

TABLE 21

		£'000		
		England and Wales	Scotland	Great Britain
Products on hand for sale	{ at beginning of year	911	145	1,056
	{ at end of year	843	85	928
Work in progress	{ at beginning of year	55	-	55
	{ at end of year	76	-	76
Total products on hand for sale and work in progress	{ at beginning of year	966	145	1,111
	{ at end of year	919	85	1,004
Materials and fuel	{ at beginning of year	3,128	138	3,265
	{ at end of year	4,011	187	4,198

(85576/1)

Employment in September: Larger establishments (a)(b)

TABLE 22
(i) Operatives

	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	282	10	292
All ages	15,242	778	16,020
Females			
Under 18	6	-	6
All ages	71	1	72
Total			
Under 18	288	10	298
All ages	15,313	779	16,092

(ii) Administrative, technical and clerical employees

	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	109	2	111
All ages	2,415	111	2,526
Females			
Under 18	57	1	58
All ages	349	9	358
Total			
Under 18	166	3	169
All ages (c)	2,764	120	2,884

(iii) Total employees

	Number		
	England and Wales	Scotland	Great Britain
Males			
Under 18	391	12	403
All ages	17,657	889	18,546
Females			
Under 18	63	1	64
All ages	420	10	430
Total			
Under 18	454	13	467
All ages (c)	18,077	899	18,976

(a) Excluded employees. The number of persons employed at the larger establishments in this trade but not included in the above tables or in any other Census of Production report (e.g., employees engaged in merchandising) are shown in Table 22(iv) below.

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

(c) No working proprietors were recorded in this trade.

(iv) Excluded employees

	Number		
	England and Wales	Scotland	Great Britain
Canteen workers			
Males	7	-	7
Females	62	-	62
Total	69	-	69
Other workers			
Males	10	-	10
Females	25	-	25
Total	35	-	35
Total excluded employees	104	-	104

Average employment: Larger establishments

TABLE 23

	Number		
	England and Wales	Scotland	Great Britain
Operatives	15,090	786	15,876
Administrative, technical and clerical employees	2,729	120	2,849
Total	17,819	906	18,725

Outworkers. No outworkers were recorded in this trade.

(85576/1)

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

Larger establishments

TABLE 24

£'000

	England and Wales	Scotland	Great Britain
Wages and salaries (a) of			
Operatives	6,282	334	6,615
Administrative, technical and clerical employees	1,367	58	1,425
Total	7,648	392	8,040
Employers' contributions to all National Insurance Schemes	185	9	194

(a) Including bonus and commission payments.

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

Larger establishments

TABLE 25

£'000

	England and Wales	Scotland	Great Britain
Plant, machinery and vehicles			
Acquisitions			
Plant and machinery			
New	(a)	(a)	3,926
Second-hand	6	1	7
Vehicles			
New	12	-	12
Second-hand	4	-	4
Total acquisitions	(a)	(a)	3,949
Disposals			
Plant and machinery	32	-	32
Vehicles	-	-	-
Total disposals	33	-	33
New building work			
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	(a)	(a)	589

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

Payments for transport services for finished goods sold and materials and fuel purchased

Larger establishments

TABLE 26

£'000

	England and Wales	Scotland	Great Britain
Amounts paid to other firms and undertakings	(a)	(a)	3,378
Amount paid or credited to firms' own separate transport organisations	(a)	(a)	224
Total	3,414	188	3,602

(a) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

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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1955

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PRINTED IN GREAT BRITAIN

S.O. Code No. 51-328-2-1