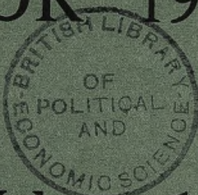


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BOARD OF TRADE

THE REPORT  
on the  
CENSUS OF PRODUCTION  
FOR 1951



Volume 12

Trade D

TRAMWAY, TROLLEY BUS AND OMNIBUS  
UNDERTAKINGS (CIVIL ENGINEERING)

*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).*

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\* Not applicable to this trade

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TRAMWAY, TROLLEY BUS AND OMNIBUS UNDERTAKINGS (CIVIL ENGINEERING)

THIS REPORT on Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering) relates to establishments owned by operators of tramway and trolley bus services or of omnibus and motor coach services running to regular schedules, which were wholly or mainly engaged in the construction or repair of permanent way, shelters, stopping place signs, depots, workshops, offices, etc. Undertakings operating road goods services and omnibus and motor coach services not running to regular schedules are excluded.

Undertakings were asked to return their output in terms of work done in the year of return, valuing that work on the basis of the cost of materials used and wages and salaries paid, together with the establishment charges attributable to the work carried out. Similarly, the cost of materials related to materials used, not materials purchased in the year.

This trade is included in minimum list heading 202(2) in the Standard Industrial Classification.

This trade was excluded from the census taken in 1950.

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.



BUILDING AND CONTRACTING  
TRAMWAY, TROLLEY BUS AND OMNIBUS UNDERTAKINGS  
(CIVIL ENGINEERING)

Summary  
Larger establishments (a)

TABLE 1

	United Kingdom		Great Britain		United Kingdom
	1951	1949	1949 (b)	1948	1935
	£'000	£'000	£'000	£'000	£'000
Gross output (production) (c)	2,781	3,590	..	3,337	3,341
Cost of materials and fuel used (d)	951	1,388	..	1,128	1,369
Payment for work done on materials given out	10	3	..	12	-
Transport payments (e)	136	..	..	..	..
Net output	1,684	2,200	..	2,196	1,972
Wages and salaries of persons employed	1,512	2,102	..	2,019	..
Average number of persons employed (f)	No. 4,523	No. 6,703	No. ..	No. 6,765	No. 11,664
Net output per person employed (f)	£ 372	£ 328	£ ..	£ 325	£ 169
Number of establishments	No. 19	No. 20	No. ..	No. 20	No. 25

The values of gross output are derived in the following way:-

	£'000	£'000	£'000	£'000	£'000
Output of firms in this trade					
Principal output (g)	2,324	3,600	..	2,066	1,556
Other output (h)	457			1,274	1,785
Less payment for transport outwards (e)	2,781	3,600	..	3,339	3,341
	..	10	..	3	
Gross output (production)	2,781	3,590	..	3,337	3,341

- (a) For small undertakings summary see Table 2.  
 (b) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.  
 (c) Gross output for 1951 includes payments to other firms and undertakings and to undertakings' own separate transport organisations for transport services. For other years payments for transport services outwards on finished goods sold are excluded.  
 (d) Amounts paid for delivery services are excluded for 1951 but included for other years.  
 (e) Payments to other firms and undertakings and to undertakings' 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.  
 (f) For the total number of persons employed in this trade see Table 3.  
 (g) For details for 1951 and 1948 see Table 8.  
 (h) For details for 1951 and 1948 see Table 10.

Summary  
Small establishments (a)

TABLE 2

	Great Britain	United Kingdom	Great Britain	
	1951	1949	1949	1948
Number of returns	5	1	1	-
Average number of persons employed				
Males	36	9	9	-
Females	-	-	-	-
Total	36	9	9	-

(a) Small establishments (employing on the average ten or fewer persons) that made satisfactory returns. No information about small establishments was collected in Northern Ireland for 1951.

Estimated average employment

All undertakings

TABLE 3

	United Kingdom		Great Britain		Number
	1951	1949	1949	1948	
As returned by undertakings					
Employing on the average more than ten persons (a)	4,523	6,703	(b)	6,765	
Employing on the average ten or fewer persons (c)	36 (d)	9	9	-	
Estimated average employment in undertakings not making satisfactory returns	4,559	6,712	(b)	6,765	
Average employment in all undertakings	-	-	-	-	
	4,559 (d)	6,712	(b)	6,765	

- (a) See Table 14.  
 (b) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.  
 (c) See Table 2.  
 (d) Excluding any small undertakings in Northern Ireland.



## Analysis by size, 1951

## Larger establishments in the United Kingdom

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Operatives	Other employees (a)	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11 - 24	4	52	24	63	18	3	21	378
25 - 49	4	90	61	136	49	6	55	446
50 - 199	4	313	192	475	156	27	183	404
200 - 399	3	642	380	978	264	48	312	388
400 - 499	1	313	198	442	164	23	187	448
500 - 749	1	454	287	640	218	33	251	448
750 - 999	1	419	253	770	203	22	225	329
1,000 and over	1	498	290	1,019	267	12	279	284
Total	19	2,781	1,684	4,523	1,338	174	1,512	372

(a) Administrative, technical and clerical employees.

## Analysis by standard region, 1951

## Larger establishments in the United Kingdom

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration			Net output per person employed
			Value	Percentage of total		Operatives	Other employees (a)	Total	
	No.	£'000	£'000		No.	£'000	£'000	£'000	£
England and Northern Ireland									
Northern	3	63	43	2.6	108	36	3	39	401
East and West Ridings	1	215	143	8.5	332	83	21	104	429
London and South Eastern	4	1,123	709	42.1	1,582	565	82	647	448
North Midland; South Western; Midland; and Northern Ireland	9	464	246	14.6	712	185	33	218	346
Eastern; Southern; and North Western	-	-	-	-	-	-	-	-	-
Total England and Northern Ireland	17	1,864	1,141	67.8	2,734	869	139	1,008	417
Wales	-	-	-	-	-	-	-	-	-
Scotland	2	917	543	32.2	1,789	470	34	504	303
United Kingdom	19	2,781	1,684	100.0	4,523	1,338	174	1,512	372

(a) Administrative, technical and clerical employees.

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

## Larger establishments in the United Kingdom

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

Civil engineering work carried out, including work done by tramway, trolley bus and omnibus undertakings in establishments classified to other trades

## Larger establishments

TABLE 8

	United Kingdom 1951					Great Britain 1948		
	New construction		Repair and maintenance		Total	New construction	Repair and maintenance	Total
	Value of work done (a)	Entries	Value of work done (a)	Entries	Value of work done (a)	Value of work done (a)	Value of work done (a)	Value of work done (a)
	£'000	No.	£'000	No.	£'000	£'000	£'000	£'000
Work of construction or repair on (b)								
Permanent way and works connected therewith on tramway routes	74	6	1,318	11	1,391	88	1,458	1,546
Electrical equipment of lines								
Tramway routes	34	6	140	11	584	5	289	294
Trackless trolley routes			410	15		79	502	582
Erection of shelters, stopping place signs, etc.	15	8	119	24	134	38	76	114
Depots, workshops, offices and other buildings connected with								
Tramway services	2	..	64	10	66	11	153	164
Trackless trolley services	37	..	75	11	112	10	94	104
Omnibus and motor coach services	141	6	365	29	506	86	398	483
Total	303	..	2,490	..	2,794	316	2,971	3,287
Work done in other trades (see Table 9)	-	-	469	..	469	175	1,046	1,221
Work done by establishments in the trade	303	..	2,021	..	2,324(c)	141	1,925	2,066

(a) Work done by Public Utilities and Local Authorities is valued at cost in both years, i.e., sums calculated to cover the cost of labour and materials, together with such a proportion of the general establishment charges as was properly attributable to the work concerned. Work done by private undertakings is included at net contract prices.

(b) Excluding the value of parts or equipment made in establishments covered by this trade, recorded in Table 10.

(c) Number of entries - 15.



Civil engineering work carried out by tramway, trolley bus and omnibus undertakings  
in establishments classified to other trades

Larger establishments

TABLE 9

	United Kingdom 1951		Great Britain 1948		
	Repair and maintenance (a)		New construction	Repair and maintenance	Total
	Value of work done	Entries	Value of work done	Value of work done	Value of work done
	£'000	No.	£'000	£'000	£'000
Work of construction or repair on					
Permanent way and works connected therewith on tramway routes	116	5	39	330	369
Electrical equipment of lines			1	122	122
Tramway routes			79	241	320
Trackless trolley routes	92	9	28	44	72
Erection of shelters, stopping place signs, etc.	60	13	1	52	53
Depots, workshops, offices and other buildings connected with	8	..	4	54	58
Tramway services	36	5	24	202	226
Trackless trolley services	158	16			
Omnibus and motor coach services					
Total	469	..	175	1,046	1,221

(a) No work of new construction was recorded in 1951 by establishments classified to other trades.

Other work done and goods made

Larger establishments

TABLE 10

	United Kingdom 1951		Great Britain 1948	
	Quantity	Value	Quantity	Value
		£'000		£'000
Rolling stock and parts thereof	..	4	..	45
Repair work to				
Tramcars		168		557
Omnibuses, trackless trolley vehicles and motor coaches		153		416
Other rolling stock	}	27	}	35
Machinery and workshop plant		67		
Other goods made or work done		32		87
	Th. tons		Th. tons	
Iron and steel scrap sold	7.3	29	8.5	29
Other waste products sold	..	44	..	38
Total		457		1,274

TABLE 11 - Production, exports and imports of certain principal products

This table is not applicable to the trade.

Usage of certain specified purchased materials, 1951

Larger establishments in the United Kingdom

TABLE 12

Materials used	Quantity
Iron and steel (except finished parts)	Th. tons 4.4
Timber (other than reclaimed), including that used for packing or packing case manufacture but excluding joinery, other fabricated woodwork and purchased packing cases	Th. cu. ft. 30.4
Hardwood	49.7
Softwood	Th. sq. yds. 1.1
Woven cotton cloth	Th. lbs. 27.2
Cotton waste	

Employment in September

Larger establishments (a)

TABLE 13

(i) Operatives

	United Kingdom		Great Britain		Number
	1951(b)	1949(b)	1949(c)	1948(d)	1935(d)
Males					
Under 18	49	91	..	91	147
All ages	3,971	6,085	..	5,996	11,072
Females					
Under 18	-	2	..	1	7
All ages	13	26	..	60	94
Total					
Under 18	49	93	..	92	154
All ages	3,984	6,111	..	6,056	11,166

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

	United Kingdom		Great Britain		Number
	1951	1949	1949(c)	1948	1935
Males					
Under 18	3	8	..	5	7
All ages	272	445	..	524	437
Females					
Under 18	6	7	..	11	7
All ages	60	172	..	185	61
Total					
Under 18	9	15	..	16	14
All ages	332(f)	617(f)	..	709(f)	498

(continued overleaf)



TABLE 13 (contd.)

(iii) Total employees

Number

	United Kingdom		Great Britain		United Kingdom
	1951	1949	1949(c)	1948	1935
Males					
Under 18	52	99	..	96	154
All ages	4,243	6,530	..	6,520	11,509
Females					
Under 18	6	9	..	12	14
All ages	73	198	..	245	155
Total					
Under 18	58	108	..	108	168
All ages	4,316(f)	6,728(f)	..	6,765(f)	11,664

(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 (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers):-

Canteen workers 8 Males 68 Females  
Other workers - Males - Females

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

(c) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.

(d) Average for the year.

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

(f) No working proprietors were recorded for 1951, 1949 and 1948. The 1935 figures include any working proprietors.

Average employment  
Larger establishments (a)

TABLE 14

Number

	United Kingdom		Great Britain		United Kingdom
	1951	1949	1949(b)	1948	1935
Operatives	4,200	6,095	..	6,056	11,166
Administrative, technical and clerical employees	323	608	..	709(c)	498(c)
Total	4,523	6,703	..	6,765	11,664

(a) For employment in small establishments (employing on the average ten or fewer persons) that made satisfactory returns see Table 2.

(b) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.

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

Outworkers. No outworkers were recorded in this trade in any year.

TABLE 15 - Shift working, 1951: Larger establishments in Great Britain

Particulars of shift working in this trade were not ascertained.

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

TABLE 16

£'000

	United Kingdom		Great Britain	
	1951	1949	1949(a)	1948
Wages and salaries (b) of				
Operatives	1,338	1,862	..	1,754
Administrative, technical and clerical employees	174	240	..	265
Total	1,512	2,102	..	2,019
Employers' contributions to all National Insurance Schemes	46	70	..	53

(a) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.

(b) Including bonus and commission payments.

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

Larger establishments

TABLE 17

£'000

	United Kingdom		Great Britain	
	1951	1949	1949(a)	1948
Plant, machinery and vehicles				
Acquisitions				
Plant and machinery				
New	1	19	..	60
Second-hand	1	-	..	4
Vehicles				
New	3	5	..	75
Second-hand	1	2	..	5
Total acquisitions	6	26	..	144
Disposals				
Plant and machinery	4	1	..	5
Vehicles	2	-	..	2
Total disposals	7	1	..	7
New building work				
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	9	7	..	5

(a) Owing to the risk of disclosure of information relating to individual undertakings in Northern Ireland separate particulars for Great Britain cannot be given.



BUILDING AND CONTRACTING COUNTRY TABLES  
TRAMWAY, TROLLEY BUS AND OMNIBUS UNDERTAKINGS (CIVIL ENGINEERING)

1951

## Summary

## Larger establishments

TABLE 18

	England(a)	Wales	Scotland	Great Britain	Northern Ireland(a)	United Kingdom
	£'000	£'000	£'000	£'000	£'000	£'000
Gross output (production) (see Table 20)	1,864	-	917	..	..	2,781
Cost of materials and fuel used	} 600	} -	} 361	} ..	} ..	951
Payment for work done on materials given out						10
Transport payments						136
Net output	1,141	-	543	..	..	1,684
Wages and salaries of persons employed	1,008	-	504	..	..	1,512
Average number of persons employed	No. 2,734	No. -	No. 1,789	No. ..	No. ..	No. 4,523
Net output per person employed	£ 417	£ -	£ 303	£ ..	£ ..	£ 372
Number of establishments	No. 17	No. -	No. 2	No. ..	No. ..	No. 19

(a) Owing to the risk of disclosure of information relating to individual undertakings particulars for Northern Ireland, where net output was about 5 per cent. of that of the United Kingdom, cannot be given separately and have been included with those for England.

## Summary

## Small establishments in Great Britain (a)

TABLE 19

	England	Wales	Scotland	Great Britain
Number of returns	4	1	-	5
Average number of persons employed				
Males	27	9	-	36
Females	-	-	-	-
Total	27	9	-	36

(a) Small establishments in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns.



Output in the trade  
Larger establishments

TABLE 20

	England and Wales		Scotland		Great Britain		Northern Ireland		United Kingdom	
	Value of work done and goods made		Value of work done and goods made		Value of work done and goods made		Value of work done and goods made		Value of work done and goods made	
	New construction	Repair and maintenance	New construction	Repair and maintenance	New construction	Repair and maintenance	New construction	Repair and maintenance	New construction	Repair and maintenance
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Civil engineering work carried out										
Work of construction or repair on										
Permanent way and works connected therewith on tramway routes	71(a)	787(a)	3	532	..	..	(a)	(a)	74	1,342
Electrical equipment of lines										
Tramway routes	34(a)		-	22	..	..	-	(a)	34	318
Trackless trolley routes			-	-	..	..	(a)	(a)		
Erection of shelters, stopping place signs, etc.	15	57(a)	-	2	15	..	-	(a)	15	59
Depots, workshops, offices and other buildings connected with										
Tramway services	2	50(a)	-	6	2	..	-	(a)	2	56
Trackless trolley services	37(a)	40(a)	-	-	..	..	(a)	(a)	37	40
Omnibus and motor coach services	140	199(a)	1	7	141	..	-	(a)	141	206
Total civil engineering work	300(a)	1,452(a)	4	569	..	..	(a)	(a)	303	2,021
Other work done and goods made	£'000		£'000		£'000		£'000		£'000	
Rolling stock and parts thereof	-		4		4		-		4	
Repair work to										
Tramcars	-		168		168		-		168	
Omnibus, trackless trolley vehicles and motor coaches	-		153		153		-		153	
Other rolling stock, and machinery and workshop plant	22(a)		4		..		(a)		27	
Other goods made or work done	29		3		32		-		32	
Iron and steel scrap sold	18(a)		11		..		(a)		29	
(4,000 tons)	(4,000 tons)		(3,200 tons)						(7,300 tons)	
Other waste products sold	42(a)		2		..		(a)		44	
Total	1,864(a)		917		..		(a)		2,781	

(a) Owing to the risk of disclosure of information relating to individual undertakings, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.



TABLE 21 - Stocks of products on hand for sale and work in progress, and stocks of materials and fuel: Larger establishments

This table is not applicable to the trade.

Employment in September

Larger establishments (a)(b)

	Number				
	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	29	20	..	..	49
All ages	2,402	1,569	..	..	3,971
Females					
Under 18	-	-	-	-	-
All ages	12	1	..	..	13
Total					
Under 18	29	20	..	..	49
All ages	2,414	1,570	..	..	3,984

	Number				
	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	2	1	..	..	3
All ages	212	60	..	..	272
Females					
Under 18	3	3	..	..	6
All ages	47	13	..	..	60
Total					
Under 18	5	4	..	..	9
All ages (d)	259	73	..	..	332

	Number				
	England and Wales (c)	Scotland	Great Britain	Northern Ireland (c)	United Kingdom
Males					
Under 18	31	21	..	..	52
All ages	2,614	1,629	..	..	4,243
Females					
Under 18	3	3	..	..	6
All ages	59	14	..	..	73
Total					
Under 18	34	24	..	..	58
All ages (d)	2,673	1,643	..	..	4,316

(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 (employees in Great Britain engaged, for example, in merchandising and in Northern Ireland canteen and welfare workers) are shown in Table 22(iv) below.

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

(c) Owing to the risk of disclosure of information relating to individual undertakings particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(d) No working proprietors were recorded.

	Number				
	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Canteen workers					
Males	8	-	8	-	8
Females	55	13	68	-	68
Total	63	13	76	-	76
Other workers					
Males	-	-	-	-	-
Females	-	-	-	-	-
Total	-	-	-	-	-
Total excluded employees	63	13	76	-	76

Average employment  
Larger establishments (a)

	Number				
	England and Wales (b)	Scotland	Great Britain	Northern Ireland (b)	United Kingdom
Operatives	2,484	1,716	..	..	4,200
Administrative, technical and clerical employees	250	73	..	..	323
Total	2,734	1,789	..	..	4,523

(a) For employment in small establishments in Great Britain (employing on the average ten or fewer persons) that made satisfactory returns see Table 19.

(b) Owing to the risk of disclosure of information relating to individual undertakings, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

Outworkers. No outworkers were recorded in this trade.

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

	£'000				
	England and Wales (a)	Scotland	Great Britain	Northern Ireland (a)	United Kingdom
Wages and salaries (b) of					
Operatives	869	470	..	..	1,338
Administrative, technical and clerical employees	139	34	..	..	174
Total	1,008	504	..	..	1,512
Employers' contributions to all National Insurance Schemes	27	19	..	..	46

(a) Owing to the risk of disclosure of information relating to individual undertakings, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

(b) Including bonus and commission payments.



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

TABLE 25

Larger establishments

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Plant, machinery and vehicles					
Acquisitions					
Plant and machinery					
New	1	1	1	-	1
Second-hand	1	-	1	-	1
Vehicles					
New	3(a)	-	..	(a)	3
Second-hand	-	1	1	-	1
Total acquisitions	4(a)	2	..	(a)	6
Disposals					
Plant and machinery	4(a)	-	..	(a)	4
Vehicles	2	-	2	-	2
Total disposals	7(a)	-	..	(a)	7
New building work					
Capital expenditure on new building and other constructional work of a capital nature (excluding site values and development charges)	8(a)	1	..	(a)	9

(a) Owing to the risk of disclosure of information relating to individual undertakings, particulars for Northern Ireland cannot be given separately and have been included with those for England and Wales.

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

Larger establishments

TABLE 26

£'000

	England and Wales	Scotland	Great Britain	Northern Ireland	United Kingdom
Amounts paid to other firms and undertakings Amount paid or credited to firms' own separate transport organisations	123	13	136	-	136
Total	123	13	136	-	136

## 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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