



BOARD OF TRADE

**FINAL REPORT**  
on the  
**CENSUS OF PRODUCTION**  
**FOR 1948**  
**Volume 12**  
**Trade D**  
**TRAM, 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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In interpreting the data in the following tables, it is essential to bear in mind not only the qualifications mentioned in this report but also the general explanations and qualifications contained in the separate booklet published in this series by H.M. Stationery Office entitled "Final Reports of the Census of Production for 1948: Introductory Notes", price 2s.0d. NET

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\* Not applicable to this trade

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TRAMWAY, TROLLEY BUS AND OMNIBUS UNDERTAKINGS  
(CIVIL ENGINEERING)

12/D/1

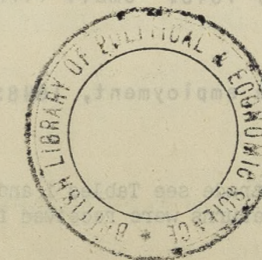
TRAMWAY, TROLLEY BUS AND OMNIBUS UNDERTAKINGS  
(CIVIL ENGINEERING)

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.

Any establishments in this trade in Northern Ireland are excluded in 1948. Owing to the risk of disclosure of information relating to individual firms separate particulars of the very small output in Northern Ireland were not published for 1935.



## Summary

## Larger establishments

TABLE 1

	1948 (a)	1935 (b)
	£'000	£'000
Gross output (work done and goods made)	3,337	3,341
Cost of materials and fuel used (see Table 13)	1,128	1,369
Payment for work done on materials given out	12	-
Net output	2,196	1,972
Wages and salaries of persons employed	2,019	..
Average number of persons employed	No. 6,765	No. 11,664
Net output per person employed	£ 325	£ 169
Number of establishments	No. 20	No. 25

(a) Great Britain only.

(b) United Kingdom.

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

	1948	1935
	£'000	£'000
Output of firms in this trade		
Total value of work done and goods made		
Principal output (see Table 8)	2,066	1,556
Other output (see Table 10)	1,274	1,785
Less payment for transport by other firms	3,339 3	3,341
Gross output (work done and goods made)	3,337	3,341

TABLE 2 - Summary, 1948: Small firms in Great Britain

TABLE 3 - Estimated average employment, 1948: All firms in Great Britain

For total average employment in this trade see Tables 1 and 15. There were no small firms in the register for this trade and satisfactory returns were received from all larger establishments.

## Analysis by size, 1948

## Larger establishments in Great Britain

TABLE 4

Average number employed	Establishments	Gross output	Net output	Persons Employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-49	3	33	23	71	19	1	21	330
50-199	8	391	243	732	204	24	228	331
200-299	1	98	61	216	49	9	57	282
300-399	1	173	109	316	86	12	97	345
400-499	2	427	286	851	223	37	260	336
500-749	1	342	243	616	178	30	207	394
750-999	2	860	576	1,715	471	75	547	336
1,000 and over	2	1,014	657	2,248	524	77	601	292
Total	20	3,337	2,196	6,765	1,754	265	2,019	325

Analysis by standard region, 1948

## Larger establishments in Great Britain

TABLE 5

Region	Establishments	Gross output	Net output		Persons employed	Remuneration		
			Value	Percentage of total		Wages	Salaries	Total
	No.	£'000	£'000		No.	£'000	£'000	£'000
England and Wales								
Northern.	3	126	81	3.7	224	70	2	72
East and West Ridings of Yorkshire	1	556	371	16.9	1,236	316	37	353
North Midland; South Western; and Wales	4	91	59	2.7	174	49	6	54
Midland	3	262	162	7.4	460	124	19	143
London and South Eastern	3	1,017	723	32.9	1,833	528	69	617
Total England and Wales	14	2,053	1,394	63.5	3,927	1,087	152	1,239
Scotland	6	1,284	802	36.5	2,838	667	113	780
Great Britain	20	3,337	2,196	100.0	6,765	1,754	265	2,019

TABLE 6 - Analysis according to specialisation within the trade, 1948

## Larger establishments

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to the trade.

Sales (or production) of the principal products of the trade, including sales (or production) of these products by establishments classified to other trades

## Larger establishments

Note - The particulars given in the table relate to civil engineering work carried out by employees of Companies or Local Authorities operating a tramway or trackless trolley vehicle service. They include also in 1948, but not in 1935, civil engineering work carried out by the employees of Companies or Local Authorities operating an omnibus service or a motor coach service operating on regular schedules.

TABLE 8

	1948(a)				1935(b)	
	New construction		Repairs and maintenance		Total	
	Value of work done (c)	Entries	Value of work done (c)	Entries	Value of work done (c)	Value of work done (c)
	£'000	No.	£'000	No.	£'000	£'000
Work of construction or repair on (d):						
Permanent way and works connected therewith on tramway routes	88	..	1,458	25	1,546	1,627
Electrical equipment of lines						
Tramway routes	5	..	289	23	294	447
Trackless trolley routes	79	14	502	34	582	
Erection of shelters, stopping place signs, etc. for						
Tramway services	1	5	11	16	12	(e)
Trackless trolley services	5	11	10	27	15	
Omnibus and motor coach services	32	36	55	59	87	(f)
Depots, workshops, offices and other buildings connected with						
Tramway services	11	6	153	20	164	226(g)
Trackless trolley services	10	9	94	26	104	
Omnibus and motor coach services	86	19	398	67	483	(f)
Total	316	..	2,971	..	3,287	2,300
Less work done in other trades (see Table 9)	175	..	1,046	..	1,221	744
Total done by establishments in the trade	141	..	1,925	..	2,066	1,556

(a) Great Britain only.

(b) United Kingdom.

(c) 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 firms is included at net contract prices.

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

(e) Not recorded separately.

(f) See note at head of table.

(g) Recorded as: £'000  
New construction 57  
Repairs 169

Sales (or production) of principal products of the trade by establishments classified to other trades

Larger establishments

TABLE 9

	1948(a)					1935(b)
	New construction		Repair and maintenance		Total	Value of work done
	Value of work done	Entries	Value of work done	Entries	Value of work done	
	£'000	No.	£'000	No.	£'000	£'000
Work of construction or repair on:						
Permanent way and works connected therewith on tramway routes	39	..	330	18	369	421
Electrical equipment of lines						
Tramway routes	1	..	122	17	122	192
Trackless trolley routes	79	13	241	31	320	
Erection of shelters, stopping place signs, etc., for						
Tramway services	1	..	5	11	6	-
Trackless trolley services	5	10	6	25	11	
Omnibus and motor coach services	22	29	33	52	55	
Depots, workshops, offices and other buildings connected with						
Tramway services	1	..	52	15	53	131 (c)
Trackless trolley services	4	6	54	23	58	
Omnibus and motor coach services	24	13	202	60	226	-
<b>Total</b>	<b>175</b>	<b>..</b>	<b>1,046</b>	<b>..</b>	<b>1,221</b>	<b>744</b>

(a) Great Britain only.

(b) United Kingdom.

(c) Recorded as:- £'000

New construction 16

Repair 115

Sales (or production) in the trade of other than principal products

Larger establishments

TABLE 10

	1948(a)	1935(b)
	Value	Value
	£'000	£'000
Rolling stock and parts thereof	45	60
Repair work to		
Tramcars	557	1,175
Motor omnibuses and coaches	416	383
Other rolling stock	35	60
Machinery and workshop plant	67	30
Other work done and goods made	87	77
Iron and steel scrap sold	29 (8,500 tons)	-
Other waste products sold	38	-
<b>Total</b>	<b>1,274</b>	<b>1,785</b>

(a) Great Britain only.

(b) United Kingdom.

TABLE 11 - Analysis of sales, 1948: Larger establishments in Great Britain

TABLE 12 - Production, exports and imports of certain principal products

These tables are not applicable to the trade.

## Purchased materials and fuel

## Larger establishments

TABLE 13

	1948(a)		1935(b)	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000		£'000
Materials				
Iron and steel in all forms, except finished parts	7.5	197		
Paints and varnishes	Th. cwts 2.9	27		
Timber	Th. cu. ft.			
Hardwood	43	23		
Softwood	88	44		
Plywood	Th. sq. ft. 39	2		
Glass	226	15	..	1,347(c)
Bricks	Thous. 489	4		
Cement	Th. tons 5.3	21		
Other building materials (d)	..	22		
Roadmaking and surfacing materials (d)	..	64		
Overhead equipment for trams and trolley buses (d)	..	120		
All other purchased materials	..	517		
Fuel and electricity (e)			Th. Tons	
Coal	2.2	3	5.4	4
Coke	6.9	23	2.2	3
Electricity purchased (f)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	2,250	10	7,754	15
From other sources	-	-		
Electricity obtained from other works under the same ownership	2,261	6	-	-
Motor spirit (petrol) and deriv. fuel	Th. galls.			
Used for road vehicles	215	17		
Used for other power purposes	19	1		
Other oil fuel (including creosote/pitch mixtures)	126	6		
Gas purchased	Th. therms		-	(g)
From public supply	45	2		
From other sources	-	-		

TABLE 13 (contd.)

	1948(a)		1935(b)	
	Materials and fuel purchased		Usage of purchased materials and fuel	
	Quantity	Cost	Quantity	Cost
				£'000
Fuel and electricity (contd.)				
Gas obtained from other works under the same ownership	-	-	-	(g)
All other purchased fuel	-	-		
Total		1,128		1,369

- (a) Great Britain only.  
(b) United Kingdom.  
(c) Including fuel not specified separately.  
(d) So far as recorded separately.  
(e) Excluding fuel used for traffic purposes.  
(f) No electricity generated in the same works was recorded for 1948 or 1935.  
(g) Not recorded separately.

TABLE 14 - Stocks of finished products and work in progress and stocks of materials and fuel, 1948:

## Larger establishments in Great Britain

This table is not applicable to the trade.

## Employment and remuneration (a)

## Larger establishments

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948(c)	1935(d)	1948(c)	1935(d)	1948(c)	1935(d)
Males						
Under 18	91	147	5	7	96	154
All ages	5,996	11,072	524	437	6,520	11,509
Females						
Under 18	1	7	11	7	12	14
All ages	60	94	185	61	245	155
Total						
Under 18	92	154	16	14	108	168
All ages	6,056	11,166	709(e)	498	6,765(e)(f)	11,664
Total remuneration	£'000		£'000		£'000	
	1,754	..	265	..	2,019	..

(a) Excluded employees. The following numbers were employed at establishments in this trade but are not included in the table or in any other report:-

Canteen workers 6 males 214 females  
Other workers 20 males 3 females

(b) Number at September 25, 1948, and October 12, 1935.

(c) Great Britain only.

(d) United Kingdom.

(e) No working proprietors were recorded for 1948.

(f) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £53,000.

## Wages and salaries paid, 1948 (a)

## Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments £'000	Establishments making returns for the calendar year					
		Amount paid £'000	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of							
Operatives	1,754	577	22.5	25.1	24.9	27.4	100.0
Administrative, technical and clerical employees	265	95	25.4	24.8	24.2	25.6	100.0
Total	2,019	672	22.9	25.1	24.8	27.2	100.0

(a) Including bonus and commission payments.

TABLE 17 - Payments for work done on materials given out, 1948

## Larger establishments in Great Britain

The total amount paid for work done on materials given out was £12,000.

## Payments for certain services, 1948

## Larger establishments in Great Britain

TABLE 18

	Amount paid £'000
Repair and maintenance	
Of buildings	17
Of plant, machinery and vehicles	1
Hire of plant, machinery and vehicles	90
Advertising and market research	-
Payments made for research work	-
Postage, telephone, telegrams and cables	3
Commercial insurance premiums	8
Rates (excluding water rates) payable in the year	37

## Plant, machinery and vehicles acquired and disposed of, 1948

## Larger establishments in Great Britain

TABLE 19

	Acquisitions		Disposals £'000
	New £'000	Second-hand £'000	
Plant and machinery	60	4	5
Vehicles	75	5	2
Total	135	9	7

## Capital expenditure on building work and changes in occupation of buildings and land, 1948

## Larger establishments in Great Britain

TABLE 20

	£'000	£'000
1. Capital expenditure on building work (a)		5
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	-	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	1	
(111) Leasehold buildings and land newly occupied in the year	-	
Total of heading 2		1
Total of headings 1 and 2		7
3. Existing buildings and land relinquished (d)		
(1) Selling value of freeholds sold	2	
(11) Estimated value of other properties relinquished	-	
Total of heading 3		2
4. Headings 1 and 2 less heading 3		5

(a) Excluding site value which, where appropriate, is included in heading 2(1).

(b) The figures do not reflect changes in ownership of previously occupied land and buildings.

(c) Property which is occupied under an agreement for the payment of rent without the purchase of a lease or the payment of a premium.

(d) Including property destroyed or abandoned.

1948

## Summary

## Larger establishments

Note - Owing to the risk of disclosure of information relating to individual firms separate particulars for Wales cannot be given.

TABLE 21

	England and Wales	Scotland	Great Britain
	£'000	£'000	£'000
Gross output (production)	2,053	1,284	3,337
Cost of materials and fuel used (see Table 24)	647	481	1,128
Payment for work done on materials given out	11	2	12
Net output	1,394	802	2,196
Wages and salaries of persons employed	1,239	780	2,019
	No.	No.	No.
Average number of persons employed	3,927	2,838	6,765
	£	£	£
Net output per person employed	355	283	325
	No.	No.	No.
Number of establishments	14	6	20

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

	England and Wales	Scotland	Great Britain
	£'000	£'000	£'000
Output of firms in this trade			
Total value of sales (see Table 23)	2,055	1,284	3,339
Less payment for transport by other firms	3	-	3
Gross output (production)	2,053	1,284	3,337

TABLE 22 - Summary: Small firms

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

## Sales in the trade

## Larger establishments

TABLE 23

	England and Wales		Scotland		Great Britain	
	Value of work done		Value of work done		Value of work done	
	New construction	Repair and maintenance	New construction	Repair and maintenance	New construction	Repair and maintenance
	£'000	£'000	£'000	£'000	£'000	£'000
Principal products						
Work of construction or repair on:						
Permanent way and works connected therewith on tramway routes	48	696	-	433	48	1,128
Electrical equipment of lines						
Tramway routes	4	124	-	44	4	168
Trackless trolley routes	-	261	1	-	1	261
Erection of shelters, stopping place signs, etc., for						
Tramway services	-	3	-	3	-	5
Trackless trolley services	-	3	-	-	-	3
Omnibus and motor coach services	8	21	2	1	10	22
Depots, workshops, offices and other buildings connected with						
Tramway services	8	54	2	47	10	101
Trackless trolley services	4	40	2	-	6	40
Omnibus and motor coach services	61	188	1	7	62	195
Total principal products	133	1,390	8	534	141	1,925



TABLE 23 (contd.)

	England and Wales	Scotland	Great Britain
	Value £'000	Value £'000	Value £'000
Other output			
Rolling stock and parts thereof	18	27	45
Repair work to			
Tramcars	194	364	557
Motor omnibuses and coaches	178	238	416
Other rolling stock	26	8	35
Machinery and workshop plant	37	30	67
Other work done and goods made	40	47	87
Iron and steel scrap sold (4,600 tons)	18	13	29
Other waste products sold	23	15	38
Total	2,055	1,284	3,339

## Purchased materials and fuel

## Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost £'000	Quantity	Cost £'000	Quantity	Cost £'000
Materials	Th. tons		Th. tons		Th. tons	
Iron and steel in all forms, except finished parts	4.2	111	3.4	87	7.5	197
Paints and varnishes	Th. cwt. 1.6	15	Th. cwt. 1.3	12	Th. cwt. 2.9	27
Timber	Th. cu. ft.		Th. cu. ft.		Th. cu. ft.	
Hardwood	36	18	6	4	43	23
Softwood	67	36	21	8	88	44
Plywood	Th. sq. ft. 17	1	Th. sq. ft. 22	1	Th. sq. ft. 39	2
Glass	137	7	89	8	228	15
Bricks	Thous. 387	3	Thous. 102	1	Thous. 489	4
Cement	Th. tons 4.8	19	Th. tons 0.5	2	Th. tons 5.3	21
Other building materials	..	22	-	-	..	22
Roadmaking and surfacing materials	..	53	..	12	..	64
Overhead equipment for trams and trolley buses	..	112	..	8	..	120
All other purchased materials	..	206	..	312	..	517
Fuel and electricity						
Coal	0.6	2	1.5	4	2.2	6
Coke	4.7	17	2.2	6	6.9	23
Electricity purchased (a)	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)	
From public supply	1,813	8	437	2	2,250	10
From other sources	-	-	-	-	-	-
Electricity obtained from other works under the same ownership	-	-	2,261	6	2,261	6
Motor spirit (petrol) and derv. fuel	Th. galls.		Th. galls.		Th. galls.	
Used for road vehicles	171	14	44	3	215	17
Used for other power purposes	16	1	3	-	19	1
Other oil fuel (including creosote/pitch mixtures)	30	1	96	5	126	6
Gas purchased	Th. therms		Th. therms		Th. therms	
From public supply	43	2	3	-	45	2
From other sources	-	-	-	-	-	-
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	-	-	-	-	-	-
Total		647		481		1,128

(a) No electricity generated in the same works was recorded.

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## Employment and remuneration

## Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total	Average number of operatives	Administrative, technical and clerical employees (a)	Total
Males									
Under 18	43	-	43	48	5	53	91	5	96
All ages	3,510	320	3,830	2,486	204	2,690	5,996	524	6,520
Females									
Under 18	-	2	2	1	9	10	1	11	12
All ages	18	79	97	42	106	148	60	185	245
Total									
Under 18	43	2	45	49	14	63	92	16	108
All ages	3,528	399 (b)	3,927 (b) (c)	2,528	310 (b)	2,838 (b) (c)	6,056	709 (b)	6,765 (b) (c)
Total remuneration	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
	1,087	152	1,239	667	113	780	1,754	265	2,019

(a) Number at September 25, 1948.

(b) No working proprietors were recorded.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £53,000; £33,000 for England and Wales, and £19,000 for Scotland.

Monthly index of employment of operatives: Larger establishments  
(average employment in 1948 = 100)

TABLE 26

Month	Monthly index (a)		Month	Monthly index (a)	
	England and Wales (b)			England and Wales (b)	
1948			1948		
January	99.4		August	104.1	
February	99.2		September	98.8	
March	97.8		October	97.8	
April	100.3		November	96.7	
May	102.5		December	95.2	
June	103.7		Percentage employment in this trade covered by the index	51.1 (c)	
July	104.8				

(a) The index numbers are calculated from the number of operatives employed in one week in each month returned by larger establishments that made returns for the calendar year 1948.

(b) No larger establishments in Scotland made returns for the calendar year 1948.

(c) For Great Britain the percentage employment in this trade covered by the index is 29.8

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