



BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948
Volume 12
Trade C
RAILWAYS (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 Od. NET

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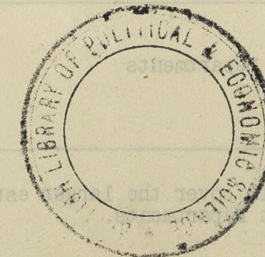
* Not applicable to this trade

RAILWAYS (CIVIL ENGINEERING) TRADE

THIS REPORT on the Railways (Civil Engineering) Trade relates to establishments engaged wholly or mainly in the construction or repair of permanent way, bridges, tunnels and stations, and in other civil engineering work on railway property. The trade is included in minimum list heading 202 in the Standard Industrial Classification relating to Civil Engineering Contracting. The 1935 report on Railway Companies related to the output of all railway establishments engaged on productive work i.e., civil engineering work on railway property, the manufacture and repair of railway locomotives, carriages and wagons, and all miscellaneous manufacturing. For that report detailed returns on an establishment basis were not obtained and, accordingly, it has not been possible to reclassify the figures for 1935 strictly in accordance with the Standard Industrial Classification. The scope of the aggregate summary figures in Table 1(i) is thus very different in the two years, but an attempt has been made, from the information available, to compile figures corresponding very roughly with those for 1948. Further, summary particulars from all the separate productive establishments making returns in 1948 have been brought together to afford a basis for comparison with the original figures for 1935.

Railway 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.

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



BUILDING AND CONTRACTING
RAILWAYS (CIVIL ENGINEERING) TRADE

Summary

Larger establishments

(i) British Railways or Railway Companies

TABLE I

	1948(a)	1948(b)	1935(c)	1935(d)
Gross output (value of work done)	£'000 63,129	£'000 153,113	£'000 23,500	£'000 54,860
Cost of materials and fuel used	22,301	59,505	7,400	18,420
Payment for work done on materials given out	-	529	-	-
Net output	40,828	93,079	16,100	36,440
Wages and salaries of persons employed	36,195 No.	81,787 No.	.. No.	.. No.
Average number of persons employed	108,088(e)	239,696	102,400	211,219
Net output per person employed	£ 378	£ 388	£ 158	£ 173
Number of establishments (f)	No. 124	No. 1,059	No. ..	No. 551

- (a) Great Britain only. These figures relate essentially to civil engineering. It is these figures which are further analysed in the main tables of the following report.
- (b) Approximate figures corresponding roughly with those for 1935 (d), but relating to Great Britain. The figures cover all productive activities of railway establishments except electricity generation. They are arrived at by aggregating returns made by railway establishments in all trades. Details are given in the table following.
- (c) Approximate figures corresponding roughly with those for 1948(a), but relating to the United Kingdom. These figures have been obtained by deducting from the 1935 aggregates, summary figures (in some cases estimated) for establishments engaged in productive activities other than civil engineering.
- (d) All railway productive establishments, other than generating stations. United Kingdom. It is these figures which are further analysed in the main tables of the following report. See Introductory Note.
- (e) For the total number of persons employed in this trade see Table 3.
- (f) A less rigorous definition of establishment was adopted in 1935.

In columns headed 1948(a) and 1935(d) in the table above the values of gross output and of materials and fuel used are derived in the following way:-

	1948	1935
Civil Engineering work (see Table 8) (a)	£'000 57,744	£'000 23,348
Other goods made and work done (see Table 10) (a)	5,424	31,534
	63,168	54,882
Less output returned by Government Departments (see Table 1(11))	39	22
Gross output (value of work done)	63,129	54,860
Materials and fuel used (see Table 13) (a)	22,303	18,430
Less materials and fuel used by Government Departments (see Table 1(11))	2	10
Materials and fuel used	22,301	18,420

- (a) The figures given in Tables 8, 10 and 13 cover the larger establishments of both British Railways (on Railway Companies) and Government Departments.

TABLE I - (contd.)

The figures in the column headed "1948(b)" in the above table are derived in the following way:-

Trade	Gross output (value of work done)	Materials and fuel used	Payment for work done, etc.	Net output	Wages and salaries of persons employed	Average number of persons employed	Net output per person employed	Number of establishments
Bread and Flour Confectionery	£'000 97	£'000 62	£'000 -	£'000 35	£'000 19	No. 70	£ 505	No. 5
Canal, Dock and Harbour Undertakings (Civil Engineering)	2,890	584	-	2,306	2,074	6,762	341	26
Canvas Goods and Sacks	2,119	1,617	3	499	336	1,138	438	22
Cattle, Dog and Poultry Foods	551	508	-	43	28	96	443	5
Tailoring, Dressmaking, etc.	413	287	112	34	27	123	274	1
Furniture and Upholstery	84	31	1	53	34	110	480	3
Gas Supply Industry	403	242	-	160	97	252	636	3
Laundry, Cleaning, Job Dyeing and Carpet Beating	195	53	2	140	92	545	256	12
Railway Locomotive Shops and locomotive manufacturing	38,239	12,645	94	25,500	23,035	64,856	393	355
Motor Vehicles and Cycles (Repairing)	2,397	784	226	1,387	1,212	3,813	364	81
Printing and Publishing, Bookbinding, Engraving, etc.	253	88	-	164	139	446	368	6
Railway Carriages and Wagons; and Trams	40,970	19,813	85	21,071	17,746	51,429	410	402
Railway (Civil Engineering)	63,129	22,301	-	40,828	36,195	108,088	378	124
Shipbuilding and Ship Repairing	989	192	6	790	733	1,891	418	10
Wholesale Bottling	386	316	-	70	19	77	905	4
Total	153,113	59,505	529	93,079	81,787	239,696	388	1,059

(ii) Government Departments (a)

	1948	1935
Gross output (value of work done)	£'000 39	£'000 22
Cost of materials and fuel used	2	10
Net output	37	12
Wages and salaries of persons employed	34 No.	.. No.
Average number of persons employed	87	121
Net output per person employed	£ 419	£ 96
Number of establishments	No. 1	No. 1

- (a) Post office (London) Railway.

Summary, 1948

Small establishments in Great Britain

TABLE 2

Number of returns	10
Average number of persons employed	
Males	38
Females	1
Total	39

Estimated average employment, 1948

All establishments in Great Britain

TABLE 3

As returned by establishments	
Employing on average more than ten persons (a)	108,175
Employing on average ten persons or less (b)	39
Average employment in all establishments	108,214

(a) See Tables 1(1) and 1(11), and 15(1) and 15(11).

(b) See Table 2.

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	
11-24	No. 18	£'000 187	£'000 87	No. 237	£'000 71	£'000 7	£'000 79	£ 368
25-49	6	195	88	234	66	8	73	376
50-99	15	618	408	1,129	344	40	384	362
100-199	15	1,197	761	2,111	686	64	750	361
200-299	4	499	315	891	275	21	296	354
300-499	1	319	196	496	143	15	158	395
500-749	5	1,879	1,168	3,151	964	79	1,043	371
750-999	3	1,641	1,057	2,773	820	91	911	381
1,000-1,499	26	19,486	12,568	32,986	9,641	980	10,622	381
1,500 and over	32	37,167	24,216	64,167	19,693	2,021	21,714	377
Total	125	63,168	40,865	108,175	32,904	3,326	36,230	378

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
England	No.	£'000	£'000		No.	£'000	£'000	£'000
Northern	2	2,581	1,618	4.0	4,367	1,228	135	1,363
East and West Ridings of Yorkshire	7	5,557	3,486	8.5	9,153	2,773	273	3,047
North Midland	6	5,393	3,427	8.4	8,815	2,788	285	3,073
Eastern	5	4,105	2,719	6.7	6,947	2,056	204	2,260
London and South Eastern	30	14,783	9,935	24.3	26,197	8,354	916	9,270
Southern	4	2,204	1,457	3.6	3,815	1,167	162	1,330
South Western	11	4,231	2,581	6.3	7,234	2,223	155	2,377
Midland	4	2,319	1,473	3.6	4,015	1,221	93	1,314
North Western	15	9,728	6,080	14.9	16,054	4,769	536	5,305
Total England	84	50,901	32,774	80.2	86,597	26,579	2,759	29,338
Wales	13	4,320	2,851	7.0	8,421	2,502	160	2,662
Scotland	28	7,947	5,239	12.8	13,157	3,823	407	4,230
Great Britain	125	63,168	40,865	100.0	108,175	32,904	3,326	36,230

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

Larger establishments in Great Britain

No specialisation within this trade was distinguished.

TABLE 7 - Total make of intermediate products: Larger establishments

This table is not applicable to this trade.

Civil Engineering work carried out (a) (b)
Larger establishments

TABLE 8

	1948 (c)				1935 (d)	
	Civil Engineering establishments				All railway productive establishments	
	New Construction		Repairs and maintenance		Total	New construction, repairs and maintenance
	Value of work done (e)	Entries	Value of work done (e)	Entries	Value of work done (e)	Value of work done (e)
	£'000	N.	£'000	No.	£'000	£'000
Construction, maintenance and repair of						
Permanent way, roads, bridges, signals, tunnels, etc.	1,883	14	44,780	19	46,663	17,497
Stations and buildings	586	10	6,200	14	6,786	3,047
Electric power and lighting works	192	..	174	6	366	258
Electrical equipment of track	187	..	411	8	598	372
Sea walls, embankments and defences	20	..	200	8	220	65
Gas mains and works	1	..	184	7	185	80
Waterworks (reservoirs, aqueducts, wells, mains, hydraulic works)	6	..	206	7	212	121
Telegraphic and telephonic lines and works (including telegraph and telephone apparatus)	315	9	1,758	12	2,073	629
Docks, harbours and wharves	-	-	160	..	160	831
Canals and waterways	-	-	38	..	38	165
Other civil engineering work	37	..	406	..	443	283
Total work done	3,227	17	54,517	17	57,744	23,348

(a) The figures recorded in this Table do not include work on railway permanent way, stations, buildings, etc., recorded by undertakings whose returns were made on schedules for other trades. These particulars will be shown in a later summary volume.

(b) Excluding the value of parts or equipment made in establishments included in this report. The value of such parts, etc. is recorded in "Other output" (see Table 10).

(c) Great Britain only.

(d) United Kingdom.

(e) 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.

TABLE 9 - Sales (or production) of principal products of the trade by establishments classified to other trades: Larger establishments

See footnote (a) to Table 8

Other goods made and work done
Larger establishments

TABLE 10

	1948 (a)		1935 (b)	
	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000
Railway equipment manufactured for the permanent way				
Fish plates and sole plates	318	9	224	4
Keys, tree-nails, etc.	..	4	3,218	32
Chairs	5,058	60	73,198	296
Signals, signal boxes, and mechanical and power signalling apparatus	..	192	..	174
Electrical signalling apparatus	..	52	..	55
Electrical communications equipment	..	24	..	55
Points, switches and crossings	12,917 No.	357	28,890	335
Concrete sleepers	5,525	4	..	168
Other concrete goods	..	131	..	168
Ballast, stone, slag, etc.	..	123	..	168
Sawn timber	..	62	..	168
Other equipment, including pipes, water troughs, etc.	..	69	..	168
Repair work to equipment for permanent way		164		137
Total permanent way equipment (including repair work)		1,268		1,201
Rolling stock and parts manufactured				
Main line, steam locomotives	-	-	No. 375 Tons 26,270	1,767
Parts of locomotives (except axles, tyres and wheels)	-	-	73,626 ..	2,654 533
Railway wheels and axles, complete	-	-	No. of sets 888 Tons 1,022	20
Carriages				
Complete	-	-	No. 1,666 Tons	2,797
Parts of carriages (except axles, tyres and wheels)	-	-	11,185 ..	422 80
Wagons and trucks				
Complete	-	-	No. 17,504	2,739

TABLE 10 (Contd.)

	1948 (a)		1935 (b)	
	Quantity	Value £'000	Quantity Tons	Value £'000
Rolling stock and parts manufactured (contd.)				
Wagons and Trucks (contd.)				
Parts of wagons and trucks (except axles, tyres and wheels)	-	-	31,804 ..	437 47
Containers, complete	-	-	..	50
Total rolling stock and parts		-		11,546
Repair work to rolling stock				
Locomotives				
Steam and electric		-		7,019
Electric rail motor vehicles		-		856
Other		-		41
Carriages		-		3,816
Wagons and trucks		46		3,372
Containers		-		40
Hand trucks, trollies, wheelbarrows, etc.		3		-
Total repair work to rolling stock		49		15,144
Road vehicles and parts manufactured		-	..	70
Repair work to road vehicles				
Motor		-		507
Other		-		204
Total road vehicles and parts (including repair work)		-		781
Construction, maintenance and repair of				
Water pumping machinery and parts				
New construction	..	2	}	74
Repair and maintenance		37		
Hoists and cranes				
New construction	-	-	}	501
Repair and maintenance		244		
Repair work to ships and boats		-		331
Lamps and fittings for lighting purposes	..	6	..	105

TABLE 10 (Contd.)

	1948 (a)		1935 (b)	
	Quantity	Value £'000	Quantity	Value £'000
Saddlery and harness	-	-	..	26
Tarpaulins, wagon covers, etc.	..	7	..	409
Printing	-	-	..	155
Grease	-	-	..	74
Furniture	..	31	..	121
Carpentry work, not included elsewhere	..	142	..	123
Provender	-	-	..	385
Gas sold	-	-	Mill. cu. ft. 702.0	211
Coke	-	-	Th. tons 15.0	12
Other by-products of gas production sold	-	-	..	13
Recovered serviceable materials				
Second-hand steel and wooden sleepers	..	314	}	321
Other	..	89		
Sheet strings, ties, ropes, etc.	-	-		
Other descriptions of goods made and work done		518	..	
Waste products sold				
Timber	..	656		
Scrap metal	Th. tons 373	2,049		
Other	..	11		
Total		5,424		31,534

(a) Great Britain only.

(b) All railway productive establishments. 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.

BUILDING AND CONTRACTING
Purchased materials and fuel
Larger establishments

TABLE 13

	1948 (a)		1935 (b)	
	Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000
Materials				
Alloy steel	-	1		(c)
Iron and non-alloy steel				
Blooms, billets and slabs	-	1	10.9	98(d)
Bars and rods	5.6	113	52.3	499(e)
Angles, shapes and sections	2.5	55	42.8	347(e)
Girders, beams, joists and pillars	2.5	51	..	(c)
Plates and sheets	13.0	302	34.8	327(e)
Tubes	1.0	34	16.9	558(e)
Castings	2.2	79	14.8	226(f)
Forgings	1.1	62	47.0	1,003(f)
Other descriptions, not elsewhere specified	7.9	273		(c)
	..	250		
Steel rails				
Points, switches and crossings	16.7	437		
	..	485	215.0	1,740
Other kinds	244.9	3,973		
Rail chairs	120.4	1,562	72.6	365
	Thous.			
Wood sleepers	3,454.3	4,096	..	1,084
Timber, other than sleepers	Th. cu. ft.			
Hardwood	259.9	122		
	..	64	..	1,613
Softwood	2,550.7	1,028		
	Th. sq. ft.			
Plywood and veneers	160.9	5		
Copper, in all forms (not elsewhere specified)	Th. cwts.		Th. cwts.	
	17.1	106	184.5	544(g)
Block tin	-	-	14.6	166
Linseed oil	7.2	24	52.2	61
	Th. sq. yds.		Th. sq. yds.	
Canvas of linen and/or hemp	23.8	7	3,384.9	184
Iron and steel sleepers	..	1		
	Thous.			
Concrete sleepers	57.7	89		
Chaired sleepers (concrete and wood)	235.6	457		
	..	664		
Rape oil	-	-		

TABLE 13 (contd.)

	1948 (a)		1935 (b)	
	Usage of purchased materials and fuel			
	Quantity	Cost	Quantity	Cost
	Th. cwts.	£'000		£'000
Materials (contd.)				
Paints and enamels	61.5	343		
	Th. tons			
Cement	41.1	150		
	Th. sq. ft.			
Glass	2,529.6	81		
	Mill.			8,871(h)
Bricks	16.4	110		
	Th. tons			
Quarry products (sand, granite chippings, ballast, etc.)	345.6	112		
	..	1,183		
Signalling and telegraph materials, not elsewhere specified	..	1,692		
Purchased components (manufactured parts) not elsewhere specified, for assembly in the establishments' own products, or incorporation in the work carried out by establishments	..	1,238		
Replacement parts for own machinery	..	31		
Consumable tools	..	194		
All other purchased materials	..	2,526		
Fuel and electricity			Th. tons	
Coal	28.1	70	377.0	283
Coke	5.5	19	88.3	94
	Th. B.T.U. (kW. hrs.)		Th. B.T.U. (kW. hrs.)	
Electricity purchased (1)				
From public supply	6,388	39	104,877	299
From other sources	7	-		
Electricity obtained from other works under the same ownership	2,129	8		
	Th. galls		Th. galls	
Motor spirit (petrol) and derv. fuel				
Used for road vehicles	305	28		(c)
Used for other power purposes	194	18		
Other oil fuel (including creosote/pitch mixtures)	3,448	93	4,416	68(k)
	Th. therms.			
Gas purchased				
From public supply	291	14		
From other sources	-	-		
	Th. cu. ft.			(c)
Gas obtained from other works under the same ownership	94	-		
All other purchased fuel	..	13		
Total		22,303		18,430

- (a) Great Britain only.
(b) All railway productive establishments, United Kingdom.
(c) Not recorded separately.
(d) Described as "Steel Blooms and billets".
(e) Of steel (including alloy steel).
(f) Including alloy steel.
(g) Copper bars, plates, sheets, tubes and pipes only.
(h) Including fuel not specified separately.
(i) The total quantity of electricity consumed in 1948 was 8,570,000 B.T. units including 46,000 generated in the same works.
(k) Described as "Heavy fuel oil".

Stocks of materials and fuel, 1948
Larger establishments in Great Britain

TABLE 14

	At beginning of year		At end of year	
	Quantity		Quantity	
	Thous.	Thous.	Th. cu. ft.	Th. sq. ft.
Materials and fuel				
Concrete sleepers	17.5	41.8		
Wood sleepers	3,254.3	3,141.6		
Timber			Th. cu. ft.	Th. sq. ft.
Hardwood	113.0	118.2		
Softwood	1,161.6	2,067.0		
Plywood and veneers			Th. sq. ft.	Th. sq. ft.
	189.6	27.9		
Coal			Th. tons	Th. tons
	1.5	1.7		

Employment and remuneration

Larger establishments

(i) British Railways or Railway Companies

TABLE 15

	Average number of operatives		Administrative, technical and clerical employees (a)		Total	
	1948 (b)	1935 (c)	1948 (b)	1935 (c)	1948 (b)	1935 (c)
	Males					
Under 18	713	6,513	153	111	866	6,624
All ages	99,957	197,701	6,367	10,203	106,324	207,904
Females						
Under 18	6	227	115	191	121	418
All ages	549	1,412	1,215	1,903	1,764	3,315
Total						
Under 18	719	6,740	268	302	987	7,042
All ages	100,506	199,113	7,582	12,106	108,088 (d)	211,219
Total remuneration	£'000	..	£'000	..	£'000	..
	32,878	..	3,318	..	36,195	..

(a) Number at April 10, 1948, and March 9, 1935.

(b) Great Britain only.

(c) All railway productive establishments. United Kingdom.

(d) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £906,000.

(ii) Government Departments (a)

TABLE 15 (contd)

	Average number of operatives		Administrative, technical and clerical employees (b)		Total	
	1948	1935	1948	1935	1948	1935
	Males					
Under 18	2	1	1	-	3	1
All ages	71	109	15	11	86	120
Females						
Under 18	-	-	-	-	-	-
All ages	-	-	1	1	1	1
Total						
Under 18	2	1	1	-	3	1
All ages	71	109	16	12	87 (c)	121
Total remuneration	£'000	..	£'000	..	£'000	..
	26	..	8	..	34	..

(a) Post Office (London) Railway.

(b) Number at April 10, 1948, and October 12, 1935.

(c) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £1,000.

Wages and salaries paid, 1948 (a)

Larger establishments in Great Britain

TABLE 16

	Amount paid by all establishments	Establishments making returns for the calendar year					
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	Year
Wages and salaries of	£'000	£'000					
Operatives	32,904	32,878	23.8	24.7	25.9	25.7	100.0
Administrative, technical and clerical employees	3,326	3,318	23.9	24.5	25.9	25.7	100.0
Total	36,230	36,195	23.8	24.7	25.9	25.7	100.0

(a) Including bonus and commission payments.

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

Larger establishments in Great Britain

This table is not applicable to the trade

BUILDING AND CONTRACTING

Payments for certain services, 1948
Larger establishments in Great Britain

TABLE 18

	Amount paid £'000
Repair and maintenance	
Of buildings	949
Of plant, machinery and vehicles	182
Hire of plant, machinery and vehicles	1,360
Payments made for research work	
To research associations	17
To universities, institutions, academic bodies and similar agencies	1
To other commercial concerns	-
Postage, telephone, telegrams and cables	9
Commercial insurance premiums	8

Plant, machinery and vehicles acquired and disposed of, 1948
Larger establishments in Great Britain

TABLE 19

	Acquisitions			Disposals £'000
	New		Second-hand £'000	
	Purchased £'000	Produced by establishments in the trade for own use £'000		
Plant and machinery	221	3	3	8
Vehicles	153	-	7	1
Total	373	3	10	10

Capital expenditure on building work, 1948
Larger establishments in Great Britain

TABLE 20

	£'000
Capital expenditure on building work, excluding site value	
Carried out by own labour force	78
Other	184

RAILWAYS (CIVIL ENGINEERING) COUNTRY TABLES

1948

Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (value of work done) (See Table 23)	50,901	4,320	7,947	63,168
Cost of materials and fuel used (see Table 24)	18,126	1,469	2,707	22,303
Net output	32,775	2,851	5,239	40,865
Wages and salaries of persons employed	29,338	2,662	4,230	36,230
Average number of persons employed	86,597	8,421	13,157	108,175
Net output per person employed	£ 378	£ 339	£ 398	£ 378
Number of establishments	No. 84	No. 13	No. 28	No. 125

Summary

Small establishments

TABLE 22

	England and Wales	Scotland	Great Britain
Number of returns	10	-	10
Average number of persons employed			
Males	38	-	38
Females	1	-	1
Total	39	-	39

Output 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	Total
	£'000	£'000	£'000	£'000
Civil Engineering work carried out				
Construction, maintenance and repair of				
Permanent way, roads, bridges, signals, tunnels, etc.				
New construction	1,737	146	1,883	46,663
Repairs and maintenance	39,225	5,555	44,780	
Stations and buildings				
New construction	504	82	586	6,786
Repairs and maintenance	5,482	718	6,200	
Electric power and lighting works				
New construction	192	-	192	366
Repairs and maintenance	106	69	174	
Electrical equipment of track				
New construction	187	-	187	596
Repairs and maintenance	411	-	411	
Sea walls, embankments and defences				
New construction	20	-	20	220
Repairs and maintenance	158	42	200	
Gas mains and works				
New construction	1	-	1	185
Repairs and maintenance	184	-	184	
Waterworks (reservoirs, aqueducts, wells, mains, hydraulic works)				
New construction	6	-	6	212
Repairs and maintenance	204	2	206	

TABLE 23 (Contd.)

	England and Wales	Scotland	Great Britain			
	Value of work done	Value of work done	Value of work done	Total		
	£'000	£'000	£'000	£'000		
Civil Engineering work carried out (contd.)						
Construction, maintenance and repair of (contd.)						
Telegraphic and telephonic lines and works (including telegraph and telephone apparatus)						
New construction	306	9	315	2,073		
Repairs and maintenance	1,804	154	1,758			
Docks, harbours and wharves						
New construction	-	-	-	160		
Repairs and maintenance	-	160	160			
Canals and waterways						
New construction	-	-	-	38		
Repairs and maintenance	-	38	38			
Other civil engineering work						
New construction	37	-	37	443		
Repairs and maintenance	181	225	406			
Total civil engineering work done						
New construction	2,990	237	3,227	57,744		
Repairs and maintenance	47,554	6,963	54,517			
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000
Other goods made and work done						
Railway equipment manufactured for the permanent way						
Fish plates and sole plates	314	9	4	-	318	9
Keys, tree-nails, etc.	..	4	-	-	..	4
Chairs	5,058	60	-	-	5,058	60
Signals, signal boxes, and mechanical and power signalling apparatus	..	135	..	58	..	192
Electrical signalling apparatus	..	49	..	3	..	52
Electrical communications equipment	..	21	..	2	..	24

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	Tons	£'000	Tons	£'000	Tons	£'000
Other goods made and work done (contd.)						
Railway equipment manufactured for the permanent way (contd.)						
Points, switches and crossings	9,831	280	3,086	76	12,917	357
	No.		No.		No.	
Concrete sleepers	5,525	4	-	-	5,525	4
Other concrete goods	..	114	..	17	..	131
Ballast, stone, slag, etc.	..	123	-	-	..	123
Sawn Timber	..	82	-	-	..	82
Other equipment, including pipes, water troughs, etc.	..	35	..	34	..	69
Repair work to equipment for permanent way		105		59		164
Total permanent way equipment (including repair work)		1,021		247		1,268
Repair work to rolling stock						
Wagons and trucks		46		-		46
Hand trucks, trollies, wheelbarrows, etc.		2		1		3
Total repair work to rolling stock		49		1		49
Construction, maintenance and repair of						
Water pumping machinery and parts						
New construction	..	2	-	-	..	2
Repairs and maintenance		34		3		37
Hoists and cranes						
New construction	-	-	-	-	-	-
Repairs and maintenance		140		104		244

TABLE 23 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Value	Quantity	Value	Quantity	Value
	No.	£'000	No.	£'000	No.	£'000
Other goods made and work done (contd.)						
Lamps and fittings for lighting purposes	..	5	..	1	..	6
Tarpaulins, wagon covers, etc.	..	7	-	-	..	7
Furniture	..	11	..	20	..	31
Carpentry work, not included elsewhere	..	142	-	-	..	142
Recovered serviceable materials						
Second-hand steel and wooden sleepers	..	314	-	-	..	314
Other	..	89	-	-	..	89
Other descriptions of goods made and work done		400		118		518
Waste products sold						
Timber	..	593	..	62	..	656
Scrap metal	Th. tons	336	Th. tons	37	Th. tons	373
Other	..	8	..	3	..	11
Total		55,221		7,947		63,168

Purchased materials and fuel (a)

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. tons	£'000	Th. tons	£'000	Th. tons	£'000
Materials						
Alloy steel	-	1	-	1	-	1
Iron and non-alloy steel						
Blooms, billets and slabs	-	1	-	-	-	1
Bars and rods	5.3	106	0.3	7	5.6	113
Angles, shapes and sections	2.5	54	-	2	2.5	55
Girders, beams, joists and pillars	2.5	51	-	1	2.5	51
Plates and sheets	12.7	296	0.3	6	13.0	302
Tubes	1.0	34	-	1	1.0	34
Castings	1.8	70	0.4	9	2.2	79
Forgings	0.4	46	0.7	16	1.1	62
Other descriptions, not elsewhere specified	1.7 ..	65 250	6.2	207	7.9 ..	273 250
Steel rails						
Points, switches and crossings	14.6 ..	379 485	2.1	58	16.7 ..	437 485
Other kinds	210.5	3,461	34.3	512	244.9	3,973
Rail chairs	113.0 Thous.	1,473	7.4 Thous.	89	120.4 Thous.	1,562
Wood sleepers	3,199.4 Th. cu. ft.	3,847	254.9 Th. cu. ft.	249	3,454.3 Th. cu. ft.	4,096
Timber, other than sleepers						
Hardwood	145.6 ..	84 64	114.3	38	259.9 ..	122 64
Softwood	2,238.0 Th. sq. ft.	952	262.7 Th. sq. ft.	76	2,550.7 Th. sq. ft.	1,028
Plywood and veneers	148.7 Th. cwts.	5	12.2 Th. cwts.	1	160.9 Th. cwts.	5
Copper, in all forms (not elsewhere specified)	15.1	89	1.9	17	17.1	106
Linseed oil	7.0 Th. sq. yds.	23	0.1 Th. sq. yds.	1	7.2 Th. sq. yds.	24
Canvas of linen and/or hemp	21.9	7	1.9	-	23.8	7
Iron and steel sleepers	.. Thous.	1	.. Thous.	-	.. Thous.	1
Concrete sleepers	53.4	83	4.2	7	57.7	89
Chaired sleepers (concrete and wood)	235.6	457	..	664	235.6 ..	457 664
Paints and enamels	56.8 Th. cwts.	305	4.7 Th. cwts.	38	61.5 Th. cwts.	343
Cement	37.5 Th. tons	134	3.6 Th. tons	16	41.1 Th. tons	150

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. sq. ft.	£'000	Th. sq. ft.	£'000	Th. sq. ft.	£'000
Materials (contd.)						
Glass	2,396.2 Mill.	77	133.4 Mill.	4	2,529.6 Mill.	81
Bricks	14.6 Th. tons	100	1.7 Th. tons	11	16.4 Th. tons	110
Quarry products (sand, granite chippings, ballast, etc.)	345.6 ..	112 1,094	..	89	345.6 ..	112 1,183
Signalling and telegraph materials, not elsewhere specified	..	1,524	..	168	..	1,692
Purchased components (manufactured parts) not elsewhere specified, for assembly in the establishments, own products or incorporation in the work carried out by establishments	..	1,082	..	156	..	1,238
Replacement parts for own machinery	..	27	..	4	..	31
Consumable tools	..	157	..	37	..	194
All other purchased materials	..	2,356	..	169	..	2,526
Fuel and electricity						
Coal	23.1	58	5.0	12	28.1	70
Coke	4.9 Th. B. T. U. (kW. hrs.)	17	0.5 Th. B. T. U. (kW. hrs.)	2	5.5 Th. B. T. U. (kW. hrs.)	19
Electricity purchased (b)						
From public supply	5,877	35	711	4	6,388	39
From other sources	7	-	-	-	7	-
Electricity obtained from other works under the same ownership	2,129 Th. galls.	8	- Th. galls.	-	2,129 Th. galls.	8
Motor spirit (petrol) and derv. fuel						
Used for road vehicles	242	22	63	6	305	28
Used for other power purposes	184	17	10	1	194	18

TABLE 24 (contd.)

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Th. galls.	£'000	Th. galls.	£'000	Th. galls.	£'000
Fuel and electricity (contd.)						
Other oil fuel (including creosote/pitch mixtures)	2,485	87	963	26	33,448	93
	Th. therms		Th. therms		Th. therms	
Gas purchased						
From public supply	284	13	7	-	291	14
From other sources	-	-	-	-	-	-
	Th. cu. ft.		Th. cu. ft.		Th. cu. ft.	
Gas obtained from other works under the same ownership	94	-	-	-	94	-
All other purchased fuel	..	6	..	7	..	13
Total		19,596		2,707		22,303

(a) Usage of purchased materials and fuel.

(b) The total quantity of electricity consumed in England and Wales was 7,859,000 B.T. Units including 46,000 generated in the same works.
The total quantity of electricity consumed in Scotland was 711,000 B.T. units.

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	617	128	745	98	26	124	715	154	869
All ages	87,885	5,563	93,448	12,143	819	12,962	100,028	6,382	106,410
Females									
Under 18	5	96	101	1	19	20	6	115	121
All ages	514	1,057	1,571	35	159	194	549	1,216	1,765
Total									
Under 18	622	224	846	99	45	144	721	269	990
All ages	88,399	6,620	95,019 (b)	12,178	978	13,156 (b)	190,577	7,598	198,175 (b)
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Total remuneration	29,081	2,919	31,999	3,823	407	4,230	32,904	3,326	36,230

(a) Number at April 10, 1948

(b) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to a total of £909,000; £800,000 for England and Wales, and £109,000 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	Scotland	Great Britain		England and Wales	Scotland	Great Britain
1948				1948			
January	97.7	100.4	98.0	August	101.0	99.5	100.8
February	97.8	100.3	98.1	September	101.0	99.4	100.8
March	99.1	100.6	99.3	October	100.8	99.9	100.7
April	99.8	100.5	99.9	November	100.7	99.7	100.6
May	100.4	100.6	100.5	December	99.8	99.0	99.7
June	100.8	100.0	100.7	Percentage employment in this trade covered by the index	99.9	100.0	99.9
July	101.0	100.0	100.9				

(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.

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