



BOARD OF TRADE

FINAL REPORT
on the
CENSUS OF PRODUCTION
FOR 1948

Volume 12

Trade E

**CANAL, DOCK, AND HARBOUR 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 Od. NET

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* Not applicable to this trade

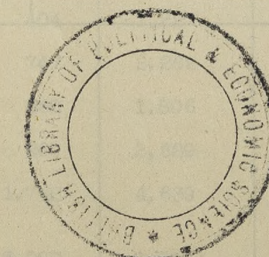
CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)

THIS REPORT relates to civil engineering establishments of Canal, Dock and Harbour Undertakings engaged wholly or mainly in the construction or repair of canals, waterways, harbours, docks, sea-walls, etc. The 1948 particulars include, whilst the 1935 particulars exclude, establishments in this trade maintained by railway undertakings, as railway companies were not required to make separate establishment returns in the earlier year. It is estimated that the net output and employment shown for 1935 is deficient on this account by about 30 per cent.

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 (relating to Civil Engineering Contracting).

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



BUILDING AND CONTRACTING
CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)

Summary
Larger establishments

TABLE 1

	1948 (a)	1935 (b)
	£'000	£'000
Gross output (work done)	11,094	3,084
Cost of materials and fuel used (see Table 13)	2,579	914
Payment for work done on materials given out	7	-
Net output	8,509	2,170
Wages and salaries of persons employed	7,404	..
Average number of persons employed	No. 23,493 (c)	No. 14,302
Net output per person employed	£ 362	£ 152
Number of establishments	No. 100	No. 79

(a) Great Britain only.

(b) United Kingdom.

(c) For an estimate of the total number of persons employed in this trade See Table 3.

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

	1948	1935
	£'000	£'000
Output of undertakings in this trade		
Total value of work done		
Principal output (see Table 8)	8,466	2,537
Other output (see Table 10)	2,629	547
Gross output (work done)	11,094	3,084

Summary, 1948

Small firms in Great Britain

TABLE 2

Number of returns	80
Average number of persons employed	
Males	363
Females	12
Total	375

Estimated average employment, 1948

All firms in Great Britain

TABLE 3

As returned by firms	
Employing on average more than ten persons (a)	23,493
Employing on average ten persons or less (b)	375
	23,868
Estimated average employment in firms not making satisfactory returns	23
Estimated average employment in all firms	23,891

(a) See tables 1 and 15.

(b) See Table 2.

Analysis by size, 1948

Larger establishments in Great Britain

TABLE 4

Average number employed	Estab-lishments	Gross output	Net output	Persons employed	Remuneration			Net output per person employed
					Wages	Salaries	Total	
	No.	£'000	£'000	No.	£'000	£'000	£'000	£
11-24	25	170	137	412	112	12	124	332
25-49	18	265	203	628	171	15	186	323
50-99	18	578	451	1,291	350	42	392	349
100-199	8	552	404	1,227	320	46	366	329
200-299	10	993	747	2,262	597	105	702	330
300-399	4	763	560	1,506	373	84	457	372
400-499	6	1,242	969	2,629	667	124	792	369
500-999	7	2,215	1,742	4,639	1,339	143	1,481	375
1,000 and over	4	4,316	3,297	8,899	2,648	257	2,904	370
Total	100	11,094	8,509	23,493	6,576	828	7,404	362

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								
Northern	13	1,008	739	8.7	2,107	561	95	656
East and West Ridings of Yorkshire	4	954	744	8.7	2,192	619	63	682
North Midland; Eastern; and Midland	21	1,088	814	9.6	2,306	601	91	693
London and South Eastern	12	1,304	984	11.6	2,204	599	107	706
Southern	7	723	569	6.7	1,559	463	62	525
South Western	8	652	490	5.8	1,573	406	58	463
North Western	17	3,577	2,733	32.1	7,205	2,224	213	2,436
Total England	82	9,306	7,073	83.1	19,146	5,472	690	6,162
Wales	7	911	806	9.5	2,339	571	77	648
Scotland	11	877	630	7.4	2,008	533	61	595
Great Britain	100	11,094	8,509	100.0	23,493	6,576	828	7,404

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 the trade.

Principal output of the trade together with the output by
railway owned establishments in 1935 (a)

TABLE 8

Larger establishments

	Work done by Canal, Dock and Harbour Undertakings		Work done by Railway Companies	
	1948 (b) (c)		1935 (d) (e)	1935 (d) (f)
	Value	Entries	Value	Value
	£'000	No.	£'000	£'000
Work of construction or repair on Canals and waterways (including dredging)				
New construction	207	11	1,046	165
Repair and maintenance	1,913	36		
Harbours and docks, including wharves, piers and jetties; and harbour and dock roads (including dredging)				
New construction	410	25	875	831
Repair and maintenance	3,053	67		
Sea-walls, embankments and defences				
New construction	269	5	216	65
Repair and maintenance	449	30		
Dock railways				
New construction	42	10	117	..
Repair and maintenance	738	37		
Depots, workshops, offices, warehouses and other buildings				
New construction	236	21	38	..
Repair and maintenance	1,056	64	193	..
Other work	93	21	52	..
Total value of work done	8,466	80	2,537	1,061

(a) Valued at cost, i.e., 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.

(b) Great Britain only.

(c) These figures relate to civil engineering establishments of Canal, Dock and Harbour Undertakings. Particulars of similar work done by Government Departments, Local Authorities and private firms will be shown in a later volume.

(d) United Kingdom.

(e) This column includes only that output returned on schedules for the Canal, Dock and Harbour Undertakings. (Civil Engineering).

(f) These figures represent the value of work done in 1935 by employees of Railway Companies on railway-owned canals, docks and harbours. These properties passed on 1st January, 1948 to the Docks and Inland Waterways Executive of the British Transport Commission and any work carried out by them in 1948 by employees of the British Transport Commission is now returned on schedules for Canal, Dock and Harbour Undertakings and is included in the first column.

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

This table is not applicable to the trade.

Other output in the trade (i.e., other repair work done)

Larger establishments

TABLE 10

	1948 (a)	1935 (b)
	Value of work done £'000	Value of work done £'000
Repairs to		
Ships and boats	872	272
Railway locomotives	65	20
Railway wagons and vans	38	8
Other vehicles	62	5
Hoists and cranes	918	133
Other machinery	675	109
Total	2,629	547

(a) Great Britain only.
(b) United Kingdom.

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

This table is not applicable to the trade.

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

Larger establishments

This table is not applicable to the trade.

Purchased materials and fuel

Larger establishments

TABLE 13

	1948 (a)		1935 (b)			
	Usage of purchased materials and fuel					
	Quantity	Cost	Quantity	Cost		
Materials	Tons	£'000		£'000		
Iron and steel (except finished parts)	6,576	153	}			
Castings, forgings, tubes and other metal components	..	276(c)				
Bricks	Thous. 2.8	18				
Cement	Tons 18,272	72				
Quarry products (sand, grit, granite chippings, ballast, etc.)	..	277(c)			..	712(d)
Hardwood	Th.cu.ft. 190	107				
Softwood	Stds. 3,284	207				
Plywood	Th.sq.ft. 22.6	1				
Paint	..	46(c)				
Electric cable, fittings and accessories	..	110(c)				
All other purchased materials	..	751				
	Th. tons		Th. tons			
Fuel and electricity						
Coal	151.6	439	171.0	169		
Coke	3.8	14	3.8	5		
Electricity purchased	Th. B. T. U. (kW. hrs.)		Th. B. T. U. (kW. hrs.)			
From public supply	5,987	36	}	28		
Electricity purchased from other sources and obtained from other works under the same ownership	59	-			10,132	
Motor spirit (petrol) and derv. fuel	Th. galls.					
Used for road vehicles	122	11	}	(e)		
Used for other power purposes	182	15				
Other oil fuel (including creosote/pitch mixtures)	635 ..	27 11				
	Th. therms		..			
Gas purchased	139	6				
Gas obtained from other works under the same ownership	-	-				
All other purchased fuel	..	1				
Total		2,579		914		

(a) Great Britain only.
(b) United Kingdom.
(c) So far as recorded separately.

(d) Including fuel not specified separately.
(e) 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	464	221	45	33	509	254
All ages	21,495	13,206	1,635	992	23,130	14,198
Females						
Under 18	1	-	32	4	33	4
All ages	77	14	286	90	363	104
Total						
Under 18	465	221	77	37	542	258
All ages	21,572	13,220	1,921	1,082	23,493 (e)	14,302
Total remuneration	£'000	..	£'000	..	£'000	..
	6,576	..	828	..	7,404	..

(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 (e.g., employees in a separate selling or transport organisation for which separate accounts are kept):-

Canteen workers	8 males	15 females
Other workers	553 males	19 females

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

(c) Great Britain only.

(d) United Kingdom.

(e) The employers' share of contributions to all National Insurance Schemes payable during the year in respect of these workers amounted to £191,000.

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					Year
		Amount paid	Percentage of annual remuneration paid in				
			First quarter	Second quarter	Third quarter	Fourth quarter	
	£'000	£'000					
Wages and salaries of							
Operatives	6,576	3,637	24.0	24.9	25.1	26.0	100.0
Administrative, technical and clerical employees	828	460	24.2	24.7	25.2	25.8	100.0
Total	7,404	4,096	24.0	24.9	25.2	25.9	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 £7,000.

Payments for certain services, 1948
Larger establishments in Great Britain

TABLE 18

	Amount paid
	£'000
Repair and maintenance	
Of buildings	119
Of plant, machinery and vehicles	339
Unclassified	152
Hire of plant, machinery and vehicles	143
Advertising and market research	
Advertising in newspapers, magazines and periodicals	1
Other advertising services (poster display, despatch of circulars, etc.) and market research	-
Unclassified	2
Payments made for research work	
To research associations	2
To universities, institutions, academic bodies and similar agencies	-
To other commercial concerns	-
Postage, telephone, telegrams and cables	22
Commercial insurance premiums	54

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

TABLE 19

	Acquisitions			Disposals
	New		Second-hand	
	Purchased	Produced by Undertakings for own use		
	£'000	£'000	£'000	£'000
Plant and machinery	579	7	46	32
Vehicles	24	-	4	1
Total	603	7	49	33

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)		82
2. Existing buildings and land (b)		
(1) Capital cost of freeholds bought	10	
Estimated capital value of		
(11) Rented property newly occupied in the year (c)	5	
(111) Leasehold buildings and land newly occupied in the year	8	
Total of heading 2		24
Total of headings 1 and 2		106
3. Existing buildings and land relinquished (d)		-
4. Headings 1 and 2 less heading 3		106

- (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.

12/E/12

BUILDING AND CONTRACTING COUNTRY TABLES
CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)

1948
Summary

Larger establishments

TABLE 21

	England	Wales	Scotland	Great Britain
	£'000	£'000	£'000	£'000
Gross output (work done) (see Table 23)	9,308	911	877	11,094
Cost of materials and fuel used (see Table 24)	2,231	101	247	2,579
Payment for work done on materials given out	2	5	-	7
Net output	7,073	806	630	8,509
Wages and salaries of persons employed	6,162	648	595	7,404
	No.	No.	No.	No.
Average number of persons employed	19,146	2,339	2,008	23,493
	£	£	£	£
Net output per person employed	369	344	314	362
	No.	No.	No.	No.
Number of establishments	82	7	11	100

Summary

Small firms

TABLE 22

	England	Wales	Scotland	Great Britain
Number of returns	51	10	19	80
Average number of persons employed				
Males	254	40	69	363
Females	8	-	4	12
Total	262	40	73	375

DS 7208/1

CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)
COUNTRY TABLES

12/E/13

Output in the trade (a)
Larger establishments

TABLE 23

	England and Wales	Scotland	Great Britain
	Value	Value	Value
	£'000	£'000	£'000
Principal output			
Work of construction or repair			
Canals and waterways (including dredging)			
New construction	207	-	207
Repair and maintenance	(b)	(b)	1,913
Harbours and docks, including wharves, piers and jetties, and harbour and dock roads (including dredging)			
New construction	371	39	410
Repair and maintenance	2,833	220	3,053
Sea-walls, embankments and defences			
New construction	269	-	269
Repair and maintenance	(b)	(b)	449
Dock railways			
New construction	35	7	42
Repair and maintenance	656	81	738
Depots, workshops, offices, warehouses and other buildings			
New construction	(b)	(b)	236
Repair and maintenance	955	101	1,056
Other work	93	-	93
Total principal output	7,814	652	8,466
Other output			
Repairs to			
Ships and boats	778	95	872
Railway locomotives	65	-	65
Railway wagons and vans	38	-	38
Other vehicles	(b)	(b)	62
Hoists and cranes	842	76	918
Other machinery	621	54	675
Total	10,217	877	11,094

(a) The output has been valued at cost, i.e., on the basis of the cost of materials used and wages and salaries paid, together with the establishments charges attributable to the work carried out.

(b) Owing to the risk of disclosure of information relating to individual undertakings, separate figures cannot be given.

DS 7208/1

Purchased materials and fuel (a)

Larger establishments

TABLE 24

	England and Wales		Scotland		Great Britain	
	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Tons	£'000	Tons	£'000	Tons	£'000
Materials						
Iron and steel (except finished parts)	5,524	126	1,052	27	6,576	153
Castings, forgings, tubes and other metal components	..	264	..	13	..	276
Bricks	Thous. 2.8	18	Thous. -	-	Thous. 2.8	18
Cement	Tons 16,607	65	Tons 1,665	7	Tons 18,272	72
Quarry products (sand, grit, granite chippings, ballast, etc.)	..	270	..	8	..	277
Hardwood	Th.cu.ft. 177	99	Th.cu.ft. 13	9	Th.cu.ft. 190	107
Softwood	Stds. 2,983	190	Stds. 301	17	Stds. 3,284	207
Plywood	..	(b)	..	(b)	Th.sq.ft. 22.6	1
Paint	..	(b)	..	(b)	..	46
Electric cable, fittings and accessories	..	(b)	..	(b)	..	110
All other purchased materials	..	665	..	86	..	751
Fuel and electricity	Th.tons		Th.tons		Th.tons	
Coal	129.5	377	22.1	62	151.6	439
Coke	..	(b)	..	(b)	3.8	14
Electricity purchased	Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)		Th.B.T.U. (kW.hrs.)	
From public supply	5,477	33	510	3	5,987	36
Electricity purchased from other sources and obtained from other works under the same ownership	59	-	-	-	59	-
Motor spirit (petrol) and derv. fuel	Th.galls.		Th.galls.		Th.galls.	
Used for road vehicles	115	11	7	1	122	11
Used for other power purposes	169	14	13	1	182	15
Other oil fuel (including creosote/pitch mixtures)	..	(b)	..	(b)	635	27
Gas purchased	Th.therms 125	5	Th.therms 13	-	Th.therms 139	11
Gas obtained from other works under the same ownership	-	-	-	-	-	-
All other purchased fuel	..	1	-	-	..	1
Total		2,331		247		2,579

(a) Usage of purchased materials and fuel.

(b) Owing to the risk of disclosure of information relating to individual undertakings separate figures cannot be given.

Employment and remuneration

Larger establishments

TABLE 25

	England and Wales			Scotland			Great Britain		
	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total	Average number of operatives	Admini- strative, technical and clerical employees (a)	Total
Males									
Under 18	434	41	475	30	4	34	464	45	509
All ages	19,645	1,505	21,150	1,850	130	1,980	21,495	1,635	23,130
Females									
Under 18	1	29	30	-	3	3	1	32	33
All ages	72	263	335	5	23	28	77	286	363
Total									
Under 18	435	70	505	30	7	37	465	77	542
All ages	19,717	1,768	21,485 (b)	1,855	153	2,008 (b)	21,572	1,921	23,493 (b)
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Total remuneration	6,043	767	6,810	533	61	595	6,576	828	7,404

(a) Number at September 25, 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 £191,000; £176,000 for England and Wales, and £15,000 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	97.2	100.6	97.3	August	101.2	100.0	101.2
February	97.5	100.0	97.5	September	101.2	100.0	101.2
March	98.8	99.4	98.8	October	101.1	100.0	101.1
April	99.2	100.0	99.2	November	101.5	99.4	101.5
May	100.4	101.2	100.4	December	101.4	98.8	101.4
June	100.0	98.8	100.0	Percentage employ- ment in this trade covered by the index	61.9	9.3	57.4
July	100.4	99.4	100.4				

(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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