

## CANAL, DOCK AND HARBOUR COMPANIES

*Note.*—For information regarding the scope of the Census, instructions given to firms for making returns, and definitions of the terms used in this report, reference should be made to the Introductory Notes on pages v to xviii.

### Introductory

This report deals with work of construction and repair carried out by canal, dock and harbour companies on their own properties by labour directly employed by them. Particulars relating to similar work carried out on canals, docks and harbours maintained by Local Authorities (including canal, dock and harbour authorities) and by railway companies are included in the reports dealing with those bodies (see pages 447 and 524).

As separate details for England and Wales and for Scotland cannot be published owing to the risk of disclosure of information relating to individual companies, the summary table (I) and the tables showing details of production (II), power equipment (IV) and coal, coke and electricity used (V) are not appended to this report. The whole of this information is available in the tables given in the report itself.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of companies in Great Britain that employed an average of more than ten persons in constructional or maintenance work :—

Particulars	Unit	1930	1924
Value of work done (Gross output) ... ..	£'000	928	847
Cost of materials used ... ..	,,	263	259
Net output ... ..	,,	665	588
Average number of persons employed ... ..	No.	4,498	3,944
Net output per person employed ... ..	£	148	149
Power available :—			
Prime movers ... ..	H.P.	16,113	7,374
Electric motors driven by purchased electricity	,,	3,073	9,386
Number of returns ... ..	No.	28	29
Number of establishments ... ..	,,	42	*

\*Not available.

**Deficiencies in 1930 aggregates.**—The aggregate number of persons employed in 1930 by companies that stated that they employed not more than ten persons on the average in constructional or maintenance work was 179, the corresponding figure for 1924 being 162.\* The value of the gross output of the small

\*Including particulars relating to a few companies in Northern Ireland, separate information regarding which is not available for publication.

concerns in 1924 was £28,000,\* and particulars of the items included in this figure are given below:—

Work of construction or repair on:—		£'000
Canals and waterways ... ..	...	13
Harbours and docks, including wharves, piers and jetties ... ..	...	13
Sea walls, embankments and defences ... ..	...	1
Dock railways ... ..	...	1
<b>TOTAL</b> ... ..	...	<b>28*</b>

**Size of companies.**—In the following table the main particulars recorded at the Census of 1930 are grouped according to the average numbers of persons shown in the returns:—

Size of company (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	
				No.	£
11-24 ... ..	4	14	12	71	160
25-49 ... ..	9	63	44	318	139
50-99 ... ..	6	94	55	403	136
100-199 ... ..	3	75	58	423	136
200-499 ... ..	3	163	130	908	143
500-1,499 ... ..	3	519	366	2,375	154
<b>TOTAL</b> ... ..	<b>28</b>	<b>928</b>	<b>665</b>	<b>4,498</b>	<b>148</b>

**Regional distribution.**—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas† of Great Britain in which canal, dock and harbour companies are situated:—

Area	Number of returns	Gross output	Net output	Average number of persons employed		
				No.	£	
1, 4 and 5	1930	4	146	112	940	119
	1924	7	96	70	519	135
2 ... ..	1930	8	541	389	2,381	163
	1924	5	440	313	2,030	154
3 ... ..	1930	3	109	84	596	141
	1924	4	167	112	712	157
6 ... ..	1930	10	92	59	445	134
	1924	10	126	79	596	133
7, 8 and 10	1930	3	40	21	136	151
	1924	3	18	14	87	161
<b>TOTAL</b>	1930	28	928	665	4,498	148
	1924	29	847	588	3,944	149

\* Including particulars relating to a few companies in Northern Ireland, separate information regarding which is not available for publication.

† For particulars see page xviii.

**Northern Ireland.**—Particulars relating to work of construction and repair carried out by canal, dock and harbour companies in Northern Ireland are included with those for Local Authorities (see page 450).

### Production

The following table shows the value of the various classes of work done by employees of canal, dock and harbour companies in 1930 and 1924. The values stated represent sums calculated to cover the wages and salaries of the persons employed in the work, the cost of materials used, and the overhead charges properly attributable to the work, excluding interest, sinking fund and other loan charges.

Kind of work done	1930		1924
	Value (at cost)	Entries	Value (at cost)
	£'000	No.	£'000
Work of construction or repair on:—			
Canals and waterways ... ..	404	20	449
Harbours and docks, including wharves, piers and jetties ... ..	192	17	116
Sea walls, embankments and defences ... ..	57	5	17
Dock railways ... ..	15	7	13
Depots, workshops, offices and other buildings:—			
New construction ... ..	8	4	12
Repairs ... ..	50	23	41
Ships, boats, barges, lighters, etc.* ... ..	115	22	87
Railway locomotives, wagons and vans ... ..	8	6	12
Hoists and cranes ... ..	34	13	94
Other machinery ... ..	31	19	
Other work done ... ..	14	8	6
<b>TOTAL VALUE OF WORK DONE (GROSS OUTPUT)</b>	<b>928</b>	<b>...</b>	<b>847</b>

\* Returned for 1930 as "Ships and boats."

**Volume of production.**—It is estimated that the value of constructional and repair work carried out by employees of canal, dock and harbour companies in 1924, amounting to £847,000, would be equivalent to approximately £800,000 if valued in terms of 1930 prices, the total of £928,000 returned for 1930 representing an increase of about 16 per cent.

**Employment**

The following table shows the average numbers of persons employed in 1930 and 1924 :—

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
<b>1930</b>						
Operatives (average for the year)	101	4,128	—	1	101	4,129
Administrative, technical and clerical staff (as at 18th October) ... ..	22	344	4	25	26	369
<b>TOTAL</b> ... ..	<b>123</b>	<b>4,472</b>	<b>4</b>	<b>26</b>	<b>127</b>	<b>4,498</b>
<b>1924</b>						
Operatives (average for the year)	134	3,755	—	1	134	3,756
Administrative, technical and clerical staff (as at 18th October) ... ..	3	179	—	9	3	188
<b>TOTAL</b> ... ..	<b>137</b>	<b>3,934</b>	<b>—</b>	<b>10</b>	<b>137</b>	<b>3,944</b>

**Power**

The following table shows the capacity of prime movers, electric generators and electric motors ordinarily in use and in reserve or idle in 1930 and 1924 :—

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
<b>PRIME MOVERS</b>						
Reciprocating steam engines ... ..	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
13,085	2,029	15,114	4,347	901	5,248	
Internal combustion engines :—						
Gas ... ..	127	54	181	605	133	738
Petrol, kerosene, or other light oils ...	214	152	366	51	15	66
Heavy oils ... ..	410	39	449	636	676	1,312
Water engines ... ..	3	—	3	10	—	10
<b>TOTAL</b> ... ..	<b>13,839</b>	<b>2,274</b>	<b>16,113</b>	<b>5,649</b>	<b>1,725</b>	<b>7,374</b>

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
<b>ELECTRIC GENERATORS</b>						
Driven by						
Reciprocating steam engines ... ..	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
29	—	29	554	15	569	
Internal combustion engines :—						
Gas ... ..	71	—	71	71	—	71
Petrol, kerosene, or other light oils ... ..	99	2	101	—	—	—
Water engines ... ..	2	—	2	—	—	—
<b>TOTAL</b> ... ..	<b>201</b>	<b>2</b>	<b>203</b>	<b>625</b>	<b>15</b>	<b>640</b>
<b>ELECTRIC MOTORS</b>						
Driven by						
Electricity generated in same works ...	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
291	—	291	150	—	150	
Purchased electricity	2,862	211	3,073	9,335	51	9,386
<b>TOTAL</b> ... ..	<b>3,153</b>	<b>211</b>	<b>3,364</b>	<b>9,485</b>	<b>51</b>	<b>9,536</b>

**Consumption of fuel**

The following table shows the quantities of coal, coke and electricity recorded as used in 1930 :—

Kind of fuel used								For power (driving engines)*
								Tons
Coal ... ..	...	...	...	...	...	...	...	21,240
Coke ... ..	...	...	...	...	...	...	...	915
								B.T.U. (Kw.-hrs.)
								'000
Electricity used for all purposes :—								
Generated in same works ... ..								200
Purchased ... ..								786
<b>TOTAL—Electricity</b> ... ..								<b>986</b>

\* No record was obtained of the quantity of coal and coke used for purposes other than the production of power.

## TABLES

*Note.*—Owing to the possible disclosure of information relating to individual companies separate particulars for England and Wales and for Scotland cannot be given.

### I. Summary of results (see page 549)

### II. Production (see page 551)

### III. Employment

#### A.—NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930

Persons employed	Males		Females		Males and females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives ... ..	102	4,151	—	1	102	4,152
Administrative, technical and clerical staff ... ..	22	344	4	25	26	369
<b>TOTAL</b> ... ..	<b>124</b>	<b>4,495</b>	<b>4</b>	<b>26</b>	<b>128</b>	<b>4,521</b>

#### B.—OPERATIVES EMPLOYED IN ONE WEEK IN EACH MONTH OF 1930

Week ended	Males and females	Week ended	Males and females
January 18 ...	4,088	July 19 ... ..	4,197
February 15 ...	4,074	August 16 ... ..	4,189
March 15 ... ..	4,133	September 13 ...	4,162
April 12 ... ..	4,152	October 18 ... ..	4,152
May 17 ... ..	4,185	November 15 ...	4,078
June 21 ... ..	4,168	December 13 ...	3,970
AVERAGE FOR THE TWELVE MONTHS ... ..			4,129

### IV. Power (see page 552)

### V. Consumption of fuel (see page 553)