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The Report on the Census of Production for 1954

Volume 12: Industry E

CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)

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VOLUME 12 INDUSTRY E

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.

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 industry is included in minimum list heading 202(2) in the Standard Industrial Classification (relating to Civil Engineering Contracting).

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IMPORTANT NOTES and definitions appear on the next page. In interin the data in the tables, it is essential to bear these in mind.

The following notes describe terms in general use in the tables of the report. More detailed explana-tions of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d.

Industrial Classification: Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

Specialist producers normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

Intermediate products: For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they

Larger establishments: The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

Small firms are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

Gross output (production) is the total value of goods made and other work done during the year: it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

Net output is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. 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.

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. The value of sales is the net selling value, i.e., 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.

Materials and fuel: The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes: packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own workpeople included in their returns; consumable tools: and parts for machinery purchased as replacements. Purchases of goods for merchanting are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

Stocks: Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

Customs and Excise Duty paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

Employment: Total employment includes working proprietors, administrative, technical and clerical employees. and operatives, but excludes outworkers, canteen employees and persons engaged in merchanting or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

Working proprietors are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

Administrative, technical and clerical employees include directors, other than those paid by fee only (except in Northern Ireland): managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

Operatives include all other classes of employees, i.e., broadly speaking, all manual workers.

Outworkers are persons employed by the firm who work on materials supplied by the firm in their own homes.

Wages and salaries include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

Capital expenditure includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

Symbols used:

- .. for not available
- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

Industry summary Estimates for the industry as a whole

TADIE 1

	arade) lan	United Kingdom			Wales
3 000 9 000 8 000 9	1948	1951	1954	Scotland 1954	1954 (a)
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	11.7	14.4	18.2	1.37	- L
Net output	9.0	10.2	12.9	0.94	03 - 201
Capital expenditure less disposals (b)	0.8	1.4	2.2	0.27	100
Wages and salaries	7.8	9.4	11.7	0.95	81 - 000
	Thousands	Thousands	Thousands	Thousands	Thousands
Total employment	24.9	25.2	25.7	2.24	

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

(b) Capital expenditure on new building work, plant, machinery and vehicles (excluding that incurred for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

Summary of returns received

TABLE 2

		Unit Gr	Great Britain	United Kingdom		
		Onic	1948	1951	1954	
UNDERTAKINGS EMPLOYING ON	AVERAGE MORE THAN 10 PERSONS					
Number of establishments Output of undertakings in	this industry	No.	100	122	118	
Principal output (a) Other output (b) Gross output (work done)	(0)	£,000	8,466 2,629	11,179 2,993	14.224	
Cost of materials and fuel			11,094	14,172	17,864	
Payments for work done on Payments for transport (d)	materials given out		2,579	3,954 35 181	4,921 47 199	
Net output			8,509	10,003	12.696	
Average number of employee Total employment Net output per person empl	Cothers	No.	21.572 1.921(e) 23.493 362	22.388 2.404 24.792	22,834 2,470 25,304	
	(of operatives	£,000		403	502	
Wages and salaries	of others	£ 000	6,576 828	8,065 1,209	10,009	
Capital expenditure		-	99.70		197	
New building work (f)	(acquisitions (f)		82 632	685	1,049	
Plant and machinery	(disposals	"	32	701 34	1.034	
Vehicles	(acquisitions (f)	-	28	44	140	
NDERTAKINGS EMPLOYING ON	AVERAGE 10 OR FEWER PERSONS		almonatale buy less	sesmodus effect	1000	
Number of returns Total employment	The later to the l	No.	80 375	77(g) 346(g)	81 404	

(a) For details for 1951 and 1954 see Table 5.(b) For details for 1954 see Table 7.

(d) Payments to other firms and undertakings and to undertakings' own separate transport organisations for transport services rendered in connection with the output and materials and fuel purchased. No details of transport payments were collected for 1948.

(e) Number in week ended September 25, 1948.

(f) Excluding expenditure for establishments not yet in production.

(g) Excluding Northern Ireland. No information about small undertakings was collected in Northern Ireland for 1951.

⁽c) For 1948 gross output excludes payments for transport services rendered in connection with the output. For subsequent years gross output includes payments to other firms and undertakings and to undertakings' own separate transport organisations for transport services.

TABLE 3

Analysis by size, 1954

Larger establishments in the United Kingdom

Average number	Estab-	Gross	Net	Emplo	yees	Wages and		Capital expenditure	Net outpu per perso	
employed	lish- ments	output	output	Operatives	Others	Operatives	Operatives Others		employed	
	Number	£, 000	£, 000	Number	Number	£,000	£. 000	£,000	£	
11 - 24	28	309	228	441	67	179	34	279 (b)	449	
25 - 49	20	400	289	613	62	249	34	[2/3(D)]	428	
50 - 99	18	750	589	1.058	136	429	74	143	494	
100 - 199	20	1.941	1.507	2.688	359	1.042	221	554	494	
200 - 299	12	1.982	1.315	2.706	271	1.084	175	198	442	
300 - 399	5	1,088	826	1.629	169	622	124	278	459	
400 - 499	5	1,692	1.159	2,043	273	895	181	27	500	
500 - 749	7	3.705	2,699	4.076	566	1,889	349	288	581	
1,000 and over	3	5,996	4.084	7,580	567	3,620	328	455	501	
Total	118	17.864	12,696	22,834	2.470	10,009	1,520	2,223	502	

(a) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles.

Excluding expenditure for establishments not yet in production.

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

TABLE 4 - Analysis according to specialisation within the industry, 1954

No specialisation within this industry was distinguished.

Principal output of the industry

Larger establishments in the United Kingdom

	1951	195	4
	Value of work done	Value of work done	Entries
	£,000	£,000	No.
Canals and waterways			
New construction	519 2.731 (a)	285	13
Repair and maintenance	2.731	1.618	37
Harbours and docks, including wharves, piers and jetties, and harbour and dock roads			100000
New construction	1,135	1,423	22
Repair and maintenance	3,382 (a)	2,827	74
Dredging			
New construction		133	12
Repair and maintenance	}(p)	2,943	65
Sea walls, embankments and defences	wante there for		3675
New construction	297	670	12
Repair and maintenance	459	1,139	27
Dock railways			
New construction	79	36	10
Repair and maintenance	923	1,060	47
Depots, workshops, offices, warehouses and other buildings			cuite a
New construction	417	396	36
Repair and maintenance	1,128	1,348	75
Other work	109	348	24
Total	11,179	14,224	82

(a) Including dredging.

(b) Not recorded séparately, values are included in the figures for new construction and repair and maintenance of canals and waterways and harbours and docks, etc.

CANAL, DOCK AND HARBOUR UNDERTAKINGS (CIVIL ENGINEERING)

TABLE 6 - Sales of principal products of the industry by establishments classified to other industries

This table is not applicable to the industry.

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

Larger establishments in the United Kingdom

TABLE 7

	1954
in the state of th	Value of work done
removed the second	£,000
Repairs to	name and Married
Ships and boats	1,174
Railway locomotives	86
Railway wagons and vans	49
Other vehicles	113
Mechanical handling equipment (e.g., cranes, winches, capstans, lifts, hoists, conveyors)	1,400
Other machinery	805
Other work done	13
Total	3,639

TABLE 8 - Total make of intermediate products This table is not applicable to the industry.

and superannuation payments (a)

Purchased materials and fuel used, 1954 Larger establishments in the United Kingdom

TARIF O

	Quantity	Cost
	Tons	£,000
Materials		
Cement	27.566	144
Cast iron goods	2.821	103
Iron and steel in all other forms except finished parts and scrap	8,625	335
Hardwood	Th.cu.ft. 204.9	154
Softwood	615.2	332
Insulated electric wire and cables and other electrical materials	•	207
	Gal.	
Paints, distemper and varnish, including emulsion paints, cellulose based paints and lacquers	50,102	70
All other purchased materials used	••	2.542
Fuel and electricity	Th. tons	
Coal	116.9	494
Coke	4.4	22
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	476.3	91
Other	605.2	35 8
For burning in furnaces, boilers, kilns, etc.	8.098.2	270
Gas purchased	Th. therms	
From Gas Boards	303.7	18
From other sources, including other departments of the same undertakings	and the second	3
Electricity purchased (a)	Th.kWh.	74
From Electricity Boards	12.208	12
From other sources, including other departments of the undertakings	338	2
All other purchased fuel used		6
Total Cost		4.921

⁽a) No electricity was generated in undertakings' own establishments in this industry in 1954.

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
Average number of employees	Number	Number
Operatives Administrative, technical and clerical employees	22.388 2.404	22,834 2,470
Total	24.792	25.304
Wages and salaries paid to	£,000	£,000
Operatives Administrative, technical and clerical employees	8.065 1.209	10,009 1,520
Total	9,274	11.528
Wages and salaries per head	£	£
Operatives Administrative, technical and clerical employees	360 503	438 615
Superannuation and other pension funds for employees and dependents (b)		£, 000
Employers' contributions		437
Employees covered Pension, etc. payments to former employees and		Number 15.451 £'000
dependents (b)		230

(a) The following persons not included above were also employed by larger establishments in this industry in 1954 ('other workers' includes, for example, employees in separate transport organisations).

Canteen workers 36 Males 105 Females
Other workers 25 Males - Females

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a) Larger establishments in the United Kingdom

TABLE 11						
		1951			1954	
	Males	Females	Total	Males	Females	Total
Operatives Administrative, technical and	22,067	71	22,138	22.797	79	22.876
clerical employees	2.034	377	2,411	2,145	377	2,522
Total employees	24,101	448	24,549	24,942	456	25,398

⁽α) Week ended September 22, 1951, or October 30, 1954.

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(a) Week ended September 22, 1351, or October 30, 1954.

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