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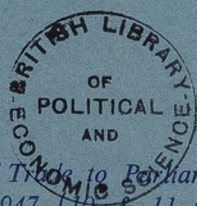
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*The Report on the  
Census of Production  
for 1954*

Volume 12: Industry A

BUILDING AND CONTRACTING



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Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

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THREE SHILLINGS NET

# The Report on the Census of Production for 1954

VOLUME 12 INDUSTRY A

PART A

BUILDING AND CONTRACTING

THIS REPORT on the Building and Contracting Industry relates to private firms engaged wholly or mainly on work of construction, alteration, repair and maintenance of buildings, highways, air-fields, sewers, waterworks, harbours and canals; electric wiring, heating and other installation work; opencast coal prospecting and mining; non-electrical work at power stations and on telegraph and telephone lines and television cables and other civil engineering work. It covers work of these kinds carried out on their own account by firms engaged in other industries which maintained separate works departments (e.g. for erection, maintenance and repair of their own premises); it also covers work of these kinds carried out by Government Departments which employed direct labour.

This industry corresponds to minimum list headings 200(1), part of 200(3) (Building), 201 (Electric Wiring) and part of 202 (Civil Engineering) in the Standard Industrial Classification.

The Ministry of Fuel and Power (Directorate of Opencast Coal Production) transferred responsibility for opencast coal prospecting and mining to the National Coal Board in March, 1952. Consequently, 1951 figures are shown in Table 5(1)(A) (Government Departments) and 1954 figures are included in Table 5(1)(A) (Private Firms).

Firms in 1951 and 1954 that employed 25 or more persons on the average were required to give detailed information on employment, wages and salaries, plant, machinery and vehicles, the usage of certain specified materials and work carried out. Firms employing from 11-24 persons on the average provided only basic figures on employment, wages and salaries, materials and fuel used and work carried out. In 1954, firms employing ten or fewer persons provided only basic figures on employment and work carried out, in 1951 these small firms also provided information on wages and salaries and materials and fuel used.

All firms, except in 1948 firms employing 10 or fewer persons, distinguished in their returns between work which they carried out as main contractors and sub-contractors respectively. Main contract work was to be valued inclusive of any work sub-contracted. Consequently, there is duplication in the gross output figures to the extent that such sub-contract work was carried out for main contractors who made returns in this industry.

The output of Government Departments was in general valued at cost i.e. at sums calculated to cover materials used and wages and salaries paid, together with the establishment charges properly attributable to the work carried out. Particulars relating to Government Departments in Northern Ireland are included with those for private firms.

The building and civil engineering establishments of Local Authorities and constructional work carried out by establishments which were also engaged in the manufacture of structural iron and steelwork, tubular scaffolding or prefabricated houses of steel or aluminium, are the subject of separate reports (Local Authorities (Building and Civil Engineering) - Volume 12, Industry B; and Constructional Engineering - Volume 4, Industry F).

Except for Table 1 which includes estimates for the Hospital Authorities (Building and Civil Engineering) Industry, the tables in Part A relate only to the Building and Contracting Industry; those in Part B relate to Hospital Authorities (Building and Civil Engineering). A separate preamble to Part B is given on page 12/A/21.

Details of the value of all construction, repair and maintenance carried out during 1954 by private firms, Government Departments, Local Authorities, Hospital Authorities and Public Utility Services are shown in the Appendix to this report on page 12/A/26.

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

## GENERAL NOTES

12/A/3

The following notes describe terms in general use in the tables of the report. More detailed explanations 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. net).

**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 are produced.

**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 work-people 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 (a)

TABLE 1

	United Kingdom			Great Britain 1954(b)	Northern Ireland 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	1,024.3	1,380.5	1,774.4	1,745.80	28.65
Net output	513.6	639.4	816.3	803.61	12.67
Capital expenditure less disposals (c)	..	28.4	40.3	39.72	0.60
Wages and salaries	362.6	462.3	580.1	571.00	9.09
Total employment (including working proprietors)	Thousands 1,335.8	Thousands 1,342.9	Thousands 1,346.8	Thousands 1,320.63	Thousands 26.19

- (a) Including estimates for 1951 and 1954 for the Hospital Authorities (Building and Civil Engineering) Industry; estimates are also included for unsatisfactory returns, the average employment for these being estimated as 74,000 in 1948 (Great Britain only), 61,000 in 1951 and 76,000 in 1954.
- (b) Private firms and Government Departments in this industry were not required to make separate returns for their establishments in the different countries of Great Britain consequently separate figures cannot be shown for them.
- (c) Capital expenditure on new building work, plant machinery and vehicles, less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

(I) Larger private firms (a)

TABLE 2 (i)(A)

	Unit	Great Britain 1948	United Kingdom					
			1951			1954		
			Employing 11 or more persons	Employ- ing 25 or more persons	Employ- ing 11-24 persons	Total	Employing 25 or more persons	Employ- ing 11-24 persons
Number of returns	No.	16,162	7,964	10,616	18,580	7,595	8,533	16,128
Gross output (production)	£'000	807,770	978,723	149,600	1,128,323	1,305,650	166,246	1,471,896
Cost of materials and fuel purchased and used	"		375,169			472,247		
Payment for transport including hired haulage	"	317,151	10,376	66,347	465,127	14,659	71,427	558,333
Payment for hire of plant and machinery	"		13,234			14,630	926	15,555
Payment for work done on contracts sub-let	"	99,931	142,218	10,102	152,321	233,543	13,941	247,484
Net output	"	390,688	437,725	73,150	510,875	570,572	79,952	650,525
Average number of employees	No.	820,430	735,435	160,998	984,323	747,383	122,561	869,944
	"	87,028(b)	87,890			99,583	15,878	115,461
Total employment (c)	"	918,342	827,142	170,857	997,999	850,023	144,961	994,984
Net output per person employed (c)	£	425	529	428	512	671	552	654
Wages and salaries	£'000	259,181	286,412	54,192	383,043	365,842	52,306	418,148
	"	33,611	42,439			58,430	6,579	65,009
Capital expenditure	"							
New building work	"		2,534			4,000		
Plant and machinery (d)	"		15,454			21,650		
	"	..	2,593	..	..	2,901	..	..
Vehicles	"		6,962			9,069		
	"		1,366			2,184		

- (a) For small firms summary see Table 2(ii)(A).
- (b) Number in week ended September 25, 1948.
- (c) Including working proprietors.
- (d) Including mobile plant.

## BUILDING AND CONTRACTING

## Summary of returns received

## (II) Government Departments (a)

TABLE 2(i)(A) (contd.)

	Unit	Great Britain		
		1948	1951	1954
Number of returns	No.	18	21	19
Gross output (production)	£'000	15,560	36,828	13,127
Cost of materials and fuel purchased and used	"	3,890	2,762	3,448
Payment for transport by other firms or hired haulage	"	355	2,067	30
Payment for hire of plant and machinery	"	381	156	62
Payment for work done on contracts sub-let	"	-	20,541	3
Net output	"	10,935	11,302	9,584
Average number of employees	No.	25,821	20,301	18,284
	{operatives			
	{others	2,710(b)	2,700	1,494
Total employment	"	28,531	23,001	19,778
Net output per person employed	£	383	491	485
Wages and salaries	£'000	7,841	7,075	8,087
	{of operatives			
	{of others	1,128	1,724	1,083
Capital expenditure				
New building work	"	..	3	13
Plant and machinery (c)	{acquisitions	..	577	275
	{disposals	..	662	1
Vehicles	{acquisitions	..	29	12
	{disposals	..	3	

(a) Excluding particulars in respect of H.M. Prisons. Particulars recorded for 1954 were £1,282,000 for the value of production (gross output) and £642,000 for the cost of materials and fuel used. The net output was £640,000. The approximate average number of persons employed on this work including prisoners was 2,400. Particulars of wages and salaries paid are not available.

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

(c) Including mobile plant.

## (I) Small private firms in Great Britain (a)

TABLE 2(ii)(A)

	Unit	1948	1951	1954
Number of returns	No.	92,666	75,632	72,407
Gross output (production)	£'000	148,181	159,999	199,510
Payment for work done on contracts sub-let	"	7,932	7,642	14,213
Total employment (b)	No.	296,596	241,589	235,258
Males	"	288,103	231,691	224,073
Females	"	8,493	9,898	11,185

(a) Firms, employing on the average ten or fewer persons, that made satisfactory returns. In 1954 there were 876 small firms in Northern Ireland employing 4,067 persons (3,928 males and 139 females).

(b) Including working proprietors; 85,826 working proprietors (83,760 males and 2,066 females) were recorded for 1951. Separate particulars are not available for 1948 or 1954.

TABLE 2(ii)(A) (contd.) - (II) Government Departments

There were no returns received from Government establishments employing ten or fewer persons on building and contracting work in 1948, 1951 or 1954.

## BUILDING AND CONTRACTING

## Analysis by size, 1954

## (I) Larger private firms in the United Kingdom

TABLE 3(A)

Average number employed (a)	Firms	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (b)	Net output per person employed (a)
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	8,533	166,246	79,952	122,561	15,878	52,306	6,579	..	552
25 - 49	3,766	166,059	79,005	117,456	13,614	51,813	6,753	3,793	594
50 - 99	2,163	202,307	91,591	133,408	14,647	61,368	7,991	4,203	615
100 - 199	970	187,962	83,908	120,776	13,174	57,334	7,535	4,516	625
200 - 299	287	101,901	44,768	62,440	6,630	30,176	3,978	2,136	648
300 - 399	132	73,433	31,811	39,699	5,644	20,077	3,525	2,723	701
400 - 499	75	53,249	22,562	29,467	3,535	14,777	2,276	1,222	684
500 - 749	78	76,958	34,606	41,588	6,131	21,648	3,762	1,815	725
750 - 999	45	67,038	26,735	33,612	4,955	17,252	2,975	1,367	693
1,000 - 1,499	29	55,050	23,456	29,619	4,927	15,237	3,244	1,907	679
1,500 - 1,999	16	69,739	24,992	22,683	4,078	11,445	2,797	2,789	934
2,000 - 2,499	9	34,384	14,567	16,805	3,093	9,521	2,049	808	732
2,500 - 2,999	6	26,981	12,487	13,839	2,325	7,468	1,463	1,303	773
3,000 - 3,999	11	73,699	27,188	31,319	5,347	17,431	3,436	1,452	741
4,000 - 4,999	4	25,488	12,608	14,113	3,364	7,534	1,814	973	721
5,000 and over	4	91,403	40,288	40,559	8,119	22,762	4,832	3,711	828
Total	16,128	1,471,896	650,525	869,944	115,461	418,148	65,009	..	654

(a) Including working proprietors.

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

## (II) Government Departments

TABLE 3(A) (contd.)

Average number employed	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (a)	Net output per person employed
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
25 - 199	4	485	376	620	63	294	46	3	551
200 - 299	4	823	584	977	107	440	75	8	539
300 - 399	3	733	519	893	103	384	68	11	521
400 - 499	2	543	446	842	64	374	48	-	493
500 - 749	3	1,266	900	1,615	175	695	118	52	503
750 and over	3	9,278	6,759	13,337	982	5,900	727	226	472
Total	19	13,127	9,584	18,284	1,494	8,087	1,083	300	485

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

## BUILDING AND CONTRACTING

Analysis according to specialisation by type of work done  
within the industry, 1954

(I) Larger private firms in the United Kingdom  
employing 25 or more persons

TABLE 4(a)(i)(A)

	Unit	Specialisation by type of work done					Total
		New house building	Other new building construction	New building work of any kind	Construction and repair of highways	Other civil engineering new work and repair	
Number of returns	No.	2,323	1,308	921	123	368	
Gross output (production)	£'000	391,491	278,306	169,004	23,747	163,892	
Value of characteristic production	"	308,800	185,542	124,743	13,258	113,244	
Cost of materials and fuel used and other charges	"	238,124	159,311	100,547	13,844	85,090	
Net output	"	153,367	118,995	68,457	9,903	78,803	
Average number of employees	No.	208,581	165,339	101,359	11,740	91,544	
Total employment (a)	"	23,175	21,832	12,068	1,939	13,921	
Net output per person employed (a)	£	232,984	187,597	113,769	13,743	105,535	
Wages and salaries	£'000	658	634	602	721	747	
Capital expenditure							
New building work	"	1,425	750	338	65	311	
Plant and machinery (b)	"	5,457	3,195	2,286	759	3,921	
Vehicles	"	902	421	183	112	482	
	"	2,837	1,540	1,091	263	1,265	
	"	768	364	265	47	206	

TABLE 4(a)(i)(A) (contd.)

	Unit	Specialisation by type of work done						Total
		Repair and maintenance of houses	Repair and maintenance of other buildings	Repair and maintenance of buildings of any kind	Sub-contracting	Open-cast coal mining	Other	
Number of returns	No.	674	426	403	912	23	114	7,595
Gross output (production)	£'000	28,686	29,492	20,580	142,469	40,843	17,140	1,305,650
Value of characteristic production	"	20,804	21,387	13,231	112,254	36,825		
Cost of materials and fuel used and other charges	"	12,031	12,400	9,119	69,166	28,611	6,836	735,078
Net output	"	16,654	17,092	11,461	73,303	12,232	10,304	570,572
Average number of employees	No.	28,188	24,955	19,165	82,696	5,386	8,430	747,383
Total employment (a)	"	3,102	2,933	2,187	13,782	1,874	2,770	99,583
Net output per person employed (a)	£	31,589	28,023	21,513	96,768	7,260	11,242	850,023
Wages and salaries	£'000	527	610	533	757	1,685	917	671
Capital expenditure								
New building work	"	152	460	42	388	28	41	4,000
Plant and machinery (b)	"	116	115	73	1,408	3,141	1,179	21,650
Vehicles	"	1	6	1	85	281	427	2,901
	"	226	212	173	1,091	98	274	9,069
	"	50	51	44	243	61	85	2,184

(a) Including working proprietors.  
(b) Including mobile plant.

## BUILDING AND CONTRACTING

## (II) Government Departments

TABLE 4a(i)(A) (contd.)

	Unit	Specialisation by type of work done		Total
		Departments engaged in repair and maintenance of buildings other than houses	Departments engaged in construction and repair of highways	
Number of returns	No.	16	3	19
Value of characteristic production	£'000	8,086	928	
Gross output (production)	"	12,021	1,107	13,127
Cost of materials and fuel used and other charges	"	3,087	456	3,543
Net output	"	8,934	651	9,584
Average number of employees	No.	17,217	1,067	18,284
Total employment	"	1,311	183	1,494
Net output per person employed	£	18,528	1,250	19,778
Wages and salaries	£'000	482	521	485
Capital expenditure				
New building work	"	7,675	412	8,087
Plant and machinery (a)	"	974	109	1,083
Vehicles	"	13	-	13
	"	216	60	275
	"	-	-	1
	"	1	11	12
	"	-	-	-

(a) Including mobile plant.

Analysis according to specialisation by type of work done within the industry, 1954  
Larger private firms in the United Kingdom employing 11-24 persons (a)

TABLE 4(a)(ii)(A)

	Unit	Specialisation by type of work done								Total	
		New house building	Other new building construction	New building work of any kind	Civil engineering new work and repair	Repair and maintenance of houses	Repair and maintenance of other buildings	Repair and maintenance of buildings of any kind	Sub-contracting		Other
Number of returns	No.	2,641	496	392	268	1,831	986	915	884	120	8,533
Gross output (production)	£'000	64,318	10,158	8,208	6,196	27,263	15,671	14,454	17,312	2,666	166,246
Value of characteristic production	"	52,403	5,501	5,678	4,150	21,946	11,888	10,462	14,477		
Cost of materials and fuel used and other charges	"	38,791	5,581	4,576	3,049	11,842	6,794	6,638	7,869	1,153	86,293
Net output	"	25,527	4,576	3,632	3,147	15,421	8,877	7,816	9,443	1,513	79,952
Average number of employees	No.	38,720	6,968	5,953	3,980	25,727	13,978	12,789	12,751	1,695	122,561
Total employment (b)	"	4,121	1,084	750	638	3,354	2,050	1,800	1,798	283	15,878
Net output per person employed (b)	£	45,177	8,345	7,036	4,791	30,502	16,601	15,263	15,199	2,047	144,961
Wages and salaries	£'000	565	548	516	657	506	535	512	621	739	552
	"	16,758	2,974	2,401	1,815	10,529	5,870	5,283	5,888	789	52,306
	"	1,696	484	301	318	1,276	870	704	800	131	6,579

(a) No information about capital expenditure was collected from these firms.  
(b) Including working proprietors.

Analysis according to specialisation by type of work done within the industry, 1954  
Small private firms in Great Britain (a)

TABLE 4(a)(iii)(A)

	Unit	Specialisation by type of work done							Total
		New house building	Other new building construction	New building work of any kind	Other constructional work	Repair and maintenance	Sub-contracting	Other	
Number of returns	No.	7,780	1,740	1,157	859	54,514	5,871	486	72,407
Gross output (production)	£'000	48,817	7,002	7,362	4,004	112,526	17,790	2,008	199,510
Value of characteristic production	"	40,805	4,945	5,348	3,158	100,212	14,676		
Payment for work done on contracts sub-let	"	7,355	810	765	233	4,298	609	144	14,213
Total employment (b)	No.	38,029	7,294	6,577	4,007	155,288	22,116	1,947	235,258

(a) Employing 10 or fewer persons.  
(b) Including working proprietors.

Analysis according to specialisation by trade  
Larger private firms in the United

TABLE 4(b)(i)(A)

Trade description and type of specialist work	Number of returns	Gross output (production) £'000	Cost of materials and fuel used and other charges £'000	Net output £'000	Average number of employees	
					Operatives	Others
					No.	No.
General builders of which those specialising in main contract work on	4,769	527,702	306,339	221,363	341,409	32,995
New house building	1,948	235,434	145,193	90,242	132,400	11,253
Other new building construction	834	130,261	76,113	54,148	84,620	8,944
New building work of any kind	684	89,335	52,948	36,388	58,554	5,685
Repair and maintenance of buildings	1,179	60,303	26,198	34,105	56,846	6,060
Building and civil engineering contractors of which those specialising in main contract work on	605	407,169	238,306	168,863	208,732	31,238
New house building	182	136,911	82,442	54,469	63,858	10,510
Other new building construction	132	99,519	58,162	41,357	53,796	7,024
New building work of any kind	113	66,263	40,090	26,173	34,716	5,251
Civil engineering	142	92,604	51,184	41,420	50,414	7,496
Civil engineering contractors of which those specialising in	379	106,276	55,227	51,049	58,062	8,388
Main contract work on buildings	70	14,539	7,921	6,618	8,696	1,109
Main contract civil engineering work	252	72,317	36,922	35,395	40,698	5,777
Sub-contracting	37	10,596	5,532	5,065	5,442	885
Electrical contractors of which those specialising in	387	47,170	22,987	24,183	31,006	6,595
Main contract work on buildings	195	19,151	9,895	9,256	13,196	2,416
Sub-contracting	94	10,731	5,495	5,236	7,190	1,278
Heating and ventilating engineers of which those specialising in sub-contracting	195	44,381	24,952	19,429	19,556	5,556
of which those specialising in sub-contracting	88	26,630	14,693	11,938	12,240	3,205
Plumbing contractors of which those specialising in sub-contracting	169	17,500	10,569	6,931	9,578	1,558
of which those specialising in sub-contracting	93	12,925	7,940	4,985	6,588	1,060
Joinery and carpentry firms of which those specialising in sub-contracting	109	6,675	3,605	3,070	4,794	473
of which those specialising in sub-contracting	29	1,951	982	968	1,449	153
Printing contractors of which those specialising in sub-contracting	243	17,414	5,020	12,394	16,599	1,420
of which those specialising in sub-contracting	64	6,251	1,820	4,431	5,853	428
Roofing contractors of which those specialising in sub-contracting	126	17,518	9,720	7,798	7,412	1,528
of which those specialising in sub-contracting	72	13,264	7,596	5,668	4,920	1,183
Plastering contractors of which those specialising in sub-contracting	184	12,155	3,767	8,388	11,972	711
of which those specialising in sub-contracting	144	10,606	3,260	7,345	10,330	618
Glazing contractors of which those specialising in sub-contracting	23	2,119	1,075	1,043	1,186	293
of which those specialising in sub-contracting	10	1,340	674	666	706	180
Scaffolding specialists of which those specialising in sub-contracting	20	4,222	775	3,447	3,134	518
of which those specialising in sub-contracting	13	3,899	733	3,166	2,853	465
Flooring contractors of which those specialising in sub-contracting	56	9,002	3,990	5,012	4,349	1,250
of which those specialising in sub-contracting	37	6,762	2,962	3,800	3,236	982
Demolition contractors	20	1,432	480	952	1,338	136
Reinforced concrete specialists	33	16,433	8,223	8,211	9,337	1,621
Asphalt and tarspraying contractors	58	12,404	6,735	5,669	5,527	1,139
Plant hiring contractors	54	5,739	2,097	3,643	2,829	615
Others	165	50,339	31,211	19,128	10,563	3,549
Total	7,595	1,305,650	735,078	570,572	747,383	99,583

(a) Including working proprietors.  
(b) Including mobile plant.

and type of work done within the industry, 1954  
Kingdom employing 25 or more persons

Total employment (a)	Net output per person employed (a)	Wages and salaries		Capital expenditure				
		Operatives	Others	New building work	Plant and machinery (b)		Vehicles	
					Acquisitions	Disposals	Acquisitions	Disposals
No.	£	£'000	£'000	£'000	£'000	£'000	£'000	£'000
376,578	588	155,852	17,921	2,099	3,730	142	3,499	750
144,685	624	61,584	6,016	1,001	1,761	62	1,678	338
93,868	577	38,770	5,120	282	1,016	44	723	168
64,505	564	26,414	3,135	161	645	26	588	133
63,393	538	24,597	3,023	627	220	7	421	97
240,125	703	107,887	19,192	1,114	9,159	1,638	2,628	740
74,437	732	33,455	5,945	389	3,466	820	998	375
60,856	680	27,058	4,567	329	1,785	363	517	128
39,988	655	17,461	2,923	165	1,555	145	419	114
57,931	715	26,623	5,134	215	1,878	181	619	95
66,569	767	31,792	5,421	178	4,431	718	931	207
9,818	675	4,379	697	28	312	40	108	36
46,566	760	22,335	3,724	96	2,448	345	649	113
6,340	799	2,976	560	45	208	9	74	17
37,679	642	13,613	3,480	29	200	7	436	80
15,662	591	5,588	1,228	21	34	-	116	26
8,481	617	3,032	670	4	18	-	93	19
25,143	773	10,100	3,234	86	74	1	217	57
15,455	772	6,470	1,890	61	55	1	114	35
11,213	618	4,407	829	17	39	1	135	40
7,691	648	3,167	583	12	26	1	100	26
5,341	575	2,065	228	19	27	1	51	16
1,616	599	678	89	4	8	-	10	3
18,153	683	8,563	863	28	62	2	214	60
6,308	702	3,140	245	10	23	1	69	16
8,976	869	3,753	976	31	108	-	156	31
6,118	926	2,531	789	29	100	-	116	22
12,801	655	6,685	384	14	36	-	94	22
11,028	666	5,883	342	13	33	-	86	20
1,482	704	571	144	4	6	-	20	6
887	751	363	96	1	4	-	8	3
3,653	944	1,775	350	22	246	23	55	8
3,319	954	1,642	321	21	207	18	49	7
5,605	894	2,507	743	27	60	1	70	16
4,221	900	1,890	571	21	49	-	52	12
1,481	643	718	69	5	21	9	28	2
10,962	749	5,229	1,033	161	479	9	111	14
6,672	850	3,033	723	12	270	56	111	22
3,449	1,056	1,608	372	42	867	279	143	40
14,141	1,353	5,683	2,468	113	1,834	15	169	73
850,023	671	365,842	58,430	4,000	21,650	2,901	9,069	2,184

Analysis according to specialisation by trade within the industry, 1954

Larger private firms in the United Kingdom employing 11-24 persons (a)

TABLE 4(b)(ii)(A)

Trade description	Number of returns	Gross output (production) £'000	Cost of materials and fuel used and other charges £'000	Payments for work done on contracts sub-let £'000	Net output £'000	Average number of employees		Total employment (b) No.	Net output per person employed (b) £	Wages and salaries	
						Operatives	Others			Operatives	Others
General builders	5,652	112,091	47,843	11,985	52,263	82,370	9,561	96,442	542	35,285	3,857
Building and civil engineering contractors	164	4,222	1,959	526	1,736	2,454	366	2,912	596	1,094	177
Civil engineering contractors	138	3,256	1,360	110	1,786	2,054	340	2,478	721	999	179
Electrical contractors	542	8,878	4,498	30	4,351	7,132	1,544	8,963	485	2,484	623
Heating and ventilating engineers	121	2,883	1,451	133	1,299	1,629	382	2,047	635	707	185
Plumbing contractors	426	7,863	4,126	135	3,602	5,724	879	6,944	519	2,240	335
Joinery and carpentry firms	301	5,224	2,258	455	2,511	4,143	508	4,917	511	1,674	187
Painting contractors	365	4,595	1,333	76	3,186	5,262	554	6,118	521	2,202	209
Roofing contractors	149	4,088	2,314	165	1,610	2,045	332	2,484	648	928	152
Plastering contractors	286	3,785	1,042	83	2,660	4,268	333	4,928	540	1,988	118
Glazing contractors	47	1,325	720	20	585	670	160	849	689	303	74
Scaffolding specialists	9	210	41	1	168	152	32	186	902	86	17
Flooring contractors	60	1,478	702	23	753	831	198	1,048	718	426	104
Demolition contractors	20	323	82	8	233	295	50	355	656	141	22
Reinforced concrete specialists	8	161	39	11	111	110	16	129	863	61	10
Asphalt and tarspraying contractors	45	1,240	616	37	587	638	124	773	759	317	65
Plant hiring contractors	40	1,264	574	23	667	562	124	695	959	317	70
Others	160	3,359	1,394	119	1,846	2,222	375	2,693	685	1,054	194
Total	8,533	166,246	72,353	13,941	79,952	122,561	15,878	144,961	552	52,306	6,579

(a) No information about capital expenditure was collected from these firms.

(b) Including working proprietors.

Analysis according to specialisation by trade within the industry, 1954

Small private firms in Great Britain (a)

TABLE 4(b)(iii)(A)

Trade description	Number of returns	Gross output £'000	Payment for work done on contracts sub-let £'000	Total employment (b) No.
General builders	40,679	119,994	11,622	135,541
Building and civil engineering contractors	193	1,307	177	1,059
Civil engineering contractors	200	1,489	155	1,138
Electrical contractors	4,238	11,976	70	15,136
Heating and ventilating engineers	211	1,178	53	998
Plumbing contractors	7,931	22,120	469	24,282
Joinery and carpentry firms	5,994	12,989	642	17,002
Painting contractors	7,862	12,062	341	19,788
Roofing contractors	1,065	3,813	170	4,194
Plastering contractors	2,377	5,985	137	9,575
Glazing contractors	223	927	8	906
Scaffolding specialists	20	75	-	99
Flooring contractors	291	1,300	36	1,121
Demolition contractors	85	271	5	434
Reinforced concrete specialists	28	166	1	137
Asphalt and tarspraying contractors	113	476	8	455
Plant hiring contractors	59	573	49	296
Others	838	2,808	271	3,097
Total	72,407	199,510	14,213	235,258

(a) Employing 10 or fewer persons.

(b) Including working proprietors.

(97112)

Building and contracting work done (a)

(I) Larger private firms in the United Kingdom (b)

This table gives particulars of all work done by building and contracting firms employing more than ten persons on the average

TABLE 5(i)(A)

	1951		1954	
	Employing 25 or more persons	Employing 11 - 24 persons	Employing 25 or more persons	Employing 11 - 24 persons
	Value of work done	Value of work done	Value of work done	Value of work done
Work done as main or direct contractors and specialist work done for principals (c)	£'000	£'000	£'000	£'000
Construction of new houses and flats (including site preparation and estate roads)				
For Local Authorities and Government Departments (including New Town Development Corporations and the Scottish Special Housing Association)			316,212	61,784
Other	254,654(d)	31,359(e)	101,868	
Repair and maintenance of houses and flats (including conversions and alterations)	59,064	45,428	56,671	39,583
Opencast coal prospecting and mining, removal and reinstatement of overburden, etc. (f)	20,927		50,782	(g)
Construction, alteration, repair or maintenance of				
Railways and light railways, tramways and trackless trolley systems (permanent way, tunnels, bridges, overhead wires, etc.)	5,594(h)		6,360	5,679
Highways (roads, bridges, footpaths, surface drains, etc.)	21,497		28,668	
Airfields (including hangars and buildings on airfields)	18,842(i)		30,098	
Recreation or sports grounds	2,796		3,704	
Harbours, wharves, docks and piers, canals and waterways, sea walls and embankments	10,977	19,523(j)	18,220	
Waterworks (including reservoirs, aqueducts, wells, mains and hydraulic works)	19,292		17,712	
Gas works and mains	13,655		17,417	
Telegraph and telephone lines and television cables and works connected therewith	2,164		6,248	
Sewers and sewage disposal works	15,517		21,582	
Power stations (thermal and hydro-electric) and electric power and lighting lines and works	31,404		57,193	
Mining development work (sinking and extending shafts, boring and underground work)(k)	789		3,393	(g)
All other civil engineering work	35,406		..	..
Total civil engineering work (new and repair)	198,860	19,523(j)	261,378	5,679
New construction work (including site preparation and major extensions and alterations) on				
Factories, workshops and other industrial premises including oil refineries, steel works, etc.	79,979		141,999	
Warehouses and storage premises	9,447(1)		14,359	
Petrol filling stations, repair garages, etc.	2,865(1)		3,971	
Hospitals, clinics, schools and college buildings	53,686		71,059	
Places of public worship and buildings connected therewith	3,220		8,165	

(97112)



TABLE 5(i)(A) (contd.)

	1951		1954	
	Employing 25 or more persons	Employing 11 - 24 persons	Employing 25 or more persons	Employing 11 - 24 persons
	Value of work done	Value of work done	Value of work done	Value of work done
	£'000	£'000	£'000	£'000
Work done as main or direct contractors and specialist work done for principals (c) (contd.)				
New construction work (including site preparation and major extensions and alterations) on (contd.)				
Buildings owned by Local Authorities and Government Departments (including Service Departments) not elsewhere specified (that is, excluding houses, schools, etc.)	41,000	9,356 (m)	34,827	13,407
Office buildings (other than those for Local Authorities and Government Departments)	11,728 (l)			
Department stores and shops	9,724 (l)			
Hotels and public houses	2,197 (l)(n)			
Places of indoor entertainment (theatres, cinemas, etc.)	1,755 (l)			
Other new construction work	24,600			
Total new construction work	240,201	9,356 (m)	337,140	13,407
Demolition work not included above	2,142 (l)	..	1,517	(g)
Repair and maintenance not included above	100,488 (o)	26,800	66,075 (o)	23,219
Total value of work done as main or direct contractors and specialist work done for principals	855,411	132,467	1,140,861	143,672
Sub-contract work				
Work done as sub-contractors	112,393	15,777	135,812	18,132
			Value	
			£'000	
	..	..	4,171	..
Payments received for fee contracts				
Total	967,804	148,243	1,280,844	161,804

(a) The figures in this table do not include work of construction, repair and maintenance recorded on schedules for other industries, Local Authorities, Hospital Authorities and Public Utility Undertakings. For details of work done by Government Departments, see the next table. Details of the total value of all construction, repair and maintenance work done during 1954 are shown in the Appendix.

(b) For output of small firms see Table 5(ii)(A).

(c) The figures for main contract work include the value of work sub-let to other contractors; there is, therefore, duplication in the total value of work carried out for that work sub-contracted by firms included in this table which was performed by sub-contractors also included in this table.

(d) Including, in Northern Ireland, demolition work and factory site preparation.

(e) Excluding site preparation and estate roads.

(f) The figures given for 1951 relate to work carried out by private contractors for the Ministry of Fuel and Power whose output for that year will be found in Table 5(i)(A) (Government Departments). The National Coal Board assumed responsibility for open-cast coal mining in March, 1952. The 1954 figure includes both the value of work done by private contractors and the value of output recorded by the Board; the total quantity of opencast coal raised in 1954 was 10,243,962 tons.

(g) For firms employing 11-24 persons, any particulars for open-cast coal prospecting and mining, mining development and demolition work are included in the figure given for 'Other work done' in this size group in Table 7(A).

(h) Including £30,000 in respect of construction, alteration, repair or maintenance of tramways and trackless trolley systems (permanent way, overhead wires, etc.).

(i) Work on airfields only.

(j) All other main contract work done, including civil engineering work.

(k) So far as separately recorded.

(l) Great Britain only. Not recorded separately for Northern Ireland.

(m) New building work only.

(n) Hotels only.

(o) Including shop fitting, exhibition stands, etc. by establishments in Northern Ireland and expenditure on repair and maintenance work by Government Departments in Northern Ireland.

## (II) Government Departments

This table gives particulars of work done, including the value of new building construction.

TABLE 5 (i)(A) (contd.)

	1951		1954	
	Value of work done	Value of work done	Value of work done	Value of work done
	£'000	£'000	£'000	£'000
Work done as main or direct contractors and specialist work done for principals				
Construction of new houses and flats (including site preparation and estate roads)	74			132
Repair and maintenance of houses and flats (including conversions and alterations)	78			274
Opencast coal prospecting and mining, removal and reinstatement of overburden etc.	25,715 (11,383,000 tons)			(a)
Construction, alteration, repair or maintenance of				
Railways and light railways, tramways and trackless trolley systems (permanent way, tunnels, bridges, overhead wires, etc.)	150			288
Highways (roads, bridges, footpaths, surface drains, etc.)	1,044			1,206
Airfields (including hangars and buildings on airfields)	158			477
Recreation or sports grounds	9			7
Harbours, wharves, docks and piers, canals and waterways, sea walls and embankments	372			604
Waterworks (including reservoirs, aqueducts, wells, mains and hydraulic works)	89			116
Gas works and mains	12			12
Telegraph and telephone lines and television cables and works connected therewith	1			25
Sewers and sewage disposal works	47			37
Power stations (thermal and hydro-electric) and electric power and lighting lines and works	17			20
New construction work (including site preparation and major extensions and alterations) on				
Factories, workshops and other industrial premises including oil refineries, steel works, etc.	13			559
Warehouses and storage premises	-			444
Petrol filling stations, repair garages, etc.	-			1
Hospitals, clinics, schools and college buildings	12 (b)			16
Buildings owned by Local Authorities and Government Departments (including Service Departments) not elsewhere specified (that is, excluding houses, schools, etc.)	1,238			686
Office buildings (other than those for Local Authorities and Government Departments)	-			6
Department stores and shops	-			1
Other new construction work	8			74
Demolition work not included above	1			2
All repair and maintenance work not included above	7,624 (c)			8,095
Other work done	13 (d)			44
Work done as sub-contractors	56			-
Total value of all work done	36,732			13,127

(a) Output is now returned by the National Coal Board who assumed responsibility for open-cast coal mining in March 1952; figures have been included in Table 5(i)(A) - Private Firms.

(b) Schools and college buildings only for 1951.

(c) Including other civil engineering work recorded separately for 1951.

(d) Including electrical work (wiring and fitting etc.) which for 1954 has been included with main headings and also work on exhibition stands and similar temporary structures.

## Building and contracting work done by small private firms in Great Britain (a)

TABLE 5(ii)(A)

	1951		1954	
	Value of work done		Value of work done	
	£'000		£'000	
Work done as main or direct contractors and specialist work for principals				
Construction of new buildings				
Houses and flats	13,746		48,973	
Other new building construction	4,903		11,405	
Repair and maintenance work to buildings (e.g. painting, decorating, plumbing, heating, lighting, carpentry work)	111,500		109,538	
All other constructional work done	12,621		6,588	
Work of all kinds done for other contractors	15,592		18,490	
Other work done	..		2,949	
	Value		Value	
Goods made and sold and not used in the work shown above	1,636		1,566	
Total	159,999		199,510	

(a) Firms, employing on the average ten or fewer persons, that made satisfactory returns.

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

## Larger establishments in the United Kingdom

This table is not applicable to the industry. Particulars of all building and civil engineering carried out during 1954, including that carried out by establishments classified to other industries, are shown in the Appendix.

## Sales in the industry other than those shown in Table 5(i)(A)

## Larger private firms in the United Kingdom (a)

TABLE 7 (A)

	1954	
	Value	
	£'000	
Firms employing 25 or more persons		
Manufactured joinery		
Doors of a height and width not less than 6 feet and 2 feet respectively	20	
Builders' woodwork	1,230	
Window frames	21	
Other manufactured joinery and furniture	345	
Coffins	81	
Wooden crates, boxes, etc.	787	
Sawmill products	32	
Portable wooden buildings (bungalows, poultry houses, garages, etc.)	79	
Furniture and cabinetware	809	
Manufactures of timber not specified above	162	
Bricks of brick-earth or clay	71	
Precast concrete goods		
Walling blocks	184	
Other	895	
Other building materials	1,029	

(97112)

TABLE 7(A) (contd.)

	1954	
	Value	
	£'000	
Firms employing 25 or more persons (contd.)		
Paving or road making materials	2,479	
Heating and ventilating apparatus	141	
Electrical goods	155	
Machinery and vehicles, and parts thereof	272	
Other manufactures of metal	879	
Other goods	1,677	
Work done		
New and repair work on ships (b)	505	
Repair and maintenance to vehicles	21	
Other work	12,934	
Total	24,806	
Firms employing 11-24 persons		
Goods made and sold and other work done	4,442	
Total	29,248	

(a) Detailed particulars of sales by firms in Northern Ireland are not available. The total value of their sales (£268,000) is included in the figure shown for 'Other goods'. For output returned by small private firms (employing on the average ten or fewer persons) see Table 5(ii)(A). No output additional to that shown in Table 5(i)(A) Part (II) was recorded for Government Departments for 1954.

(b) So far as separately recorded.

TABLE 8 (A) - Total make of intermediate products

## Larger establishments in the United Kingdom

This table is not applicable to the industry.

## Purchased materials and fuel used and other charges, 1954

## (I) Larger private firms in the United Kingdom (a)

TABLE 9 (A)

	Employing 25 or more persons		Employing 11-24 persons
	Quantity	Cost	Cost
	Mn.	£'000	£'000
Materials			
Bricks	5,010.5	36,407	71,427
Cement	Th. tons 5,345.6	27,744	
Steel used for reinforcement	259.3	9,883	
	..	1,204	
Other structural iron and steel	171.7	9,042	
	..	1,799	
Wrought iron and steel tubes and fittings	124.7	5,860	
	..	2,287	
Wood and timber other than reclaimed			
Joinery and other fabricated woodwork	..	23,339	
Other, including timber used for packing case manufacture			
Hardwood	..	4,197	
Softwood	..	32,974	

(97112)

TABLE 9(A) (contd.)

	Employing 25 or more persons		Employing 11-24 persons
	Quantity	Cost	Cost
		£'000	£'000
Materials (contd.)			
Insulated electric wires and cables and other electrical materials	..	23,076	
All other purchased materials	..	274,383	
Fuel (including coal, coke, gas, petrol and other oil fuel) and electricity used for all purposes (heating, lighting and transport)	..	20,052	
Total amount paid to other firms for transport charges or for hired haulage (including the hire of vehicles operated by firms' own staff)		14,659	
Total amount paid to other firms for the hire of plant or machinery		14,630	926
Total cost of purchased materials and fuel used, and other charges		501,535	72,353
Total amount payable to other firms for work done during the year on contracts sub-let to them		233,543	13,941
Total cost of purchased materials and fuel used, other charges, and amount paid to sub-contractors		735,078	86,293

(a) Smaller firms were not required to provide information for this table in 1954, except for amount payable to other firms for contracts sub-let which will be found in Table 2(ii)(A).

## (II) Government Departments

TABLE 9(A) (contd.)

	Quantity	Cost
	Mn.	£'000
Materials		
Bricks	7.2	61
Cement	Th. tons 13.0	66
Steel used for reinforcement	0.7	29
Other structural iron and steel	2.6	123
Wrought iron and steel tubes and fittings	1.9	111
Wood and timber other than reclaimed		
Joinery and other fabricated woodwork	..	51
Other, including timber used for packing case manufacture		
Hardwood	..	19
Softwood	..	164
Insulated electric wires and cables and other electrical materials	..	226
All other purchased materials	..	2,411
Fuel (including coal, coke, gas, petrol and other oil fuel) and electricity used for all purposes (heating, lighting and transport)	..	187
Total amount paid to other firms for transport charges or for hired haulage (including the hire of vehicles operated by departments' own staff)		30
Total amount paid to other firms for the hire of plant or machinery		62
Total cost of purchased materials and fuel used, and other charges		3,540
Total amount payable to other firms for work done during the year on contracts sub-let to them		3
Total cost of purchased materials and fuel used, other charges, and amount paid to sub-contractors		3,543

## Average number of employees and wages, salaries and superannuation payments

(I) Larger private firms in the United Kingdom (a)

TABLE 10(A)

	1951			1954		
	Employing 25 or more persons	Employing 11-24 persons	Total	Employing 25 or more persons	Employing 11-24 persons	Total
	Number	Number	Number	Number	Number	Number
Average number of employees						
Operatives	735,435	160,998 (b)	984,323	747,383	122,561	869,944
Administrative, technical and clerical employees	87,890			99,583	15,878	115,461
Total	823,325	160,998	984,323	846,966	138,439	985,405
Wages and salaries (c) paid to	£'000	£'000	£'000	£'000	£'000	£'000
Operatives	286,412	54,192 (b)	383,043	365,842	52,306	418,148
Administrative, technical and clerical employees	42,439			58,430	6,579	65,009
Total	328,851	54,192	383,043	424,272	58,885	483,157
Wages and salaries per head	£	£	£	£	£	£
Operatives	389	337	389	489	427	481
Administrative, technical and clerical employees	483			587	414	563
Superannuation and other pension funds for employees and dependents (d)				£'000		
Employers' contributions	..	..	..	2,488	..	..
Employees covered	..	..	..	89,393	..	..
Pension, etc. payments to former employees and dependents (d)	..	..	..	£'000 269	..	..

(a) For employment in small private firms (employing on the average ten or fewer persons) that made satisfactory returns see Table 2(ii)(A).

(b) Separate particulars were not ascertained.

(c) Including bonus and commission payments.

(d) The figures given relate to Great Britain only.

## (II) Government Departments

TABLE 10(A) (contd.)

	1951	1954
	Number	Number
Average number of employees		
Operatives	20,301	18,284
Administrative, technical and clerical employees	2,700	1,494
Total	23,001	19,778
Wages and salaries paid to	£'000	£'000
Operatives	7,075	8,087
Administrative, technical and clerical employees	1,724	1,083
Total	8,799	9,170
Wages and salaries per head	£	£
Operatives	349	442
Administrative, technical and clerical employees	639	725
Superannuation and other pension funds for employees and dependents		£'000
Employers' contributions	..	..
Employees covered	..	Number ..
Pension, etc. payments to former employees and dependents	..	£'000 ..

## BUILDING AND CONTRACTING

Employment in a specified week

(I) Larger private firms in the United Kingdom

TABLE 11 (A)	1951(a)			1954(a)			Number
	Males	Females	Total	Males	Females	Total	
Working proprietors							
Firms employing 25 or more persons	3,683	134	3,817	2,943	114	3,057	
Firms employing 11 to 24 persons	9,351	508	9,859	6,235	287	6,522	
Total working proprietors	13,034	642	13,676	9,178	401	9,579	
Operatives							
Firms employing 25 or more persons	750,088	1,821	751,909	757,083	2,044	759,127	
Firms employing 11 to 24 persons	(b)	(b)	(b)	122,184	377	122,561	
Total operatives	(b)	(b)	(b)	879,267	2,421	881,688	
Administrative, technical and clerical employees							
Firms employing 25 or more persons	66,981	22,808	89,789	75,194	25,787	100,981	
Firms employing 11 to 24 persons	(b)	(b)	(b)	9,911	5,967	15,878	
Total administrative, technical and clerical employees	(b)	(b)	(b)	85,105	31,754	116,859	
Total employees	971,274	31,422	1,002,696	964,372	34,175	998,547	

(a) Week ended September 22, 1951, or October 30, 1954, in respect of firms employing 25 or more persons. Figures for firms employing 11 to 24 persons are the average for the year since separate particulars for a specific week were not ascertained.

(b) Separate particulars for operatives and administrative, technical and clerical employees of firms employing 11 to 24 persons were not ascertained for 1951.

(II) Government Departments

TABLE 11 (A) (contd.)	1951(a)			1954(a)			Number
	Males	Females	Total	Males	Females	Total	
Operatives	19,853	65	19,918	18,278	74	18,352	
Administrative, technical and clerical employees	2,351	345	2,696	1,213	282	1,495	
Total employees	22,204	410	22,614	19,491	356	19,847	

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

## HOSPITAL AUTHORITIES (BUILDING AND CIVIL ENGINEERING)

THIS REPORT relates to the work of building construction, repair and renewal, and civil engineering work carried out by persons in the direct employment of Regional Hospital Boards, Hospital Management Committees and Boards of Management and Boards of Governors of teaching hospitals in Great Britain.

This industry corresponds to part of minimum list heading 200(3) (Building) and part of 202(2) (Civil Engineering) in the Standard Industrial Classification.

On the 5th July, 1948, most hospitals in Great Britain came under the administration of the new Hospital Boards and Committees set up under the National Health Service Acts of 1946 and 1947. For 1948, as regards hospitals formerly administered by Local Authorities, building and civil engineering work carried out by directly employed labour was in a few cases, included by the local authority in its return in the Local Authorities (Building and Civil Engineering) Industry. Hospital Authorities were not required to make returns for 1949 and building and civil engineering was excluded from the scope of the census for 1950. 1951, therefore, is the first year for which separate information was collected from Regional Hospital Boards, Hospital Management Committees and Boards of Management and Boards of Governors for teaching hospitals.

This report does not include any work done on behalf of hospitals by contractors. Particulars of work furnished by contractors are included in the reports on the industries concerned.

Certain maintenance workers (e.g., boilermen, liftmen, cleaners, gardeners and porters) and the work done by them are excluded from the report.

Hospital Authorities 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.

## Summary of returns received

## Larger establishments in Great Britain (a)

TABLE 2 (i)(B)

	Unit	1951	1954
Number of establishments	No.	367	362
Gross output (production)	£'000	9,987	11,855
Cost of materials and fuel purchased and used	"	3,340	3,554
Payment for transport or for hired haulage	"	30	18
Payment for the hire of plant and machinery	"	9	7
Net output	"	6,608	8,276
Average number of employees	{ operatives others	No. "	No. "
		14,437	14,549
		1,345	1,481
Total employment	"	15,782	16,030
Net output per person employed	£	419	516
Wages and salaries	{ of operatives of others	£'000 "	£'000 "
		5,584	6,811
		702	868
Capital expenditure	"	"	"
New building work	"	56	65
Plant and machinery (b)	{ acquisitions disposals	" "	" "
		93	104
		-	1
Vehicles	{ acquisitions disposals	" "	" "
		21	11
		2	-

(a) For small establishments' summary see Table 2(ii)(B).

(b) Including mobile plant.

## Small establishments in Great Britain (a)

TABLE 2 (ii)(B)

	Unit	1951	1954
Number of returns	No.	89	81
Gross output (production)	£'000	367	408
Cost of materials and fuel purchased and used and other charges (b)	"	144	156
Net output	"	224	252
Total employment	No.	563	530
Males	"	561	529
Females	"	2	1
Net output per person employed	£	397	477

(a) Establishments, employing on the average ten or fewer persons, that made satisfactory returns.

(b) Including amounts paid to other firms and undertakings for transport charges or for hire haulage and for hire of plant and machinery.

## Analysis by size, 1954

## Larger establishments in Great Britain

TABLE 3 (B)

Average number employed	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (a)	Net output per person employed
				Operatives	Others	Operatives	Others		
	Number	£'000	£'000	Number	Number	£'000	£'000	£'000	£
11 - 24	80	1,136	782	1,360	161	641	92	14	514
25 - 49	164	4,392	3,084	5,335	612	2,489	365	101	519
50 - 99	105	5,055	3,548	6,344	601	2,960	349	54	511
100 - 199	13	1,272	862	1,510	107	720	62	11	533
Total	362	11,855	8,276	14,549	1,481	6,811	868	180	516

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

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

## Larger establishments in Great Britain

No specialisation within this industry was distinguished.

## Building and civil engineering work done

## Larger establishments in Great Britain (a)

TABLE 5 (i)(B)

	1951		1954	
	Value of work done in the year (b)	Value of work done in the year (b)	Value of work done in the year (b)	Entries
	£'000	£'000	No.	
Construction of new houses and flats (including site preparation and estate roads) (c)	8	7	7	
Repair and maintenance of houses and flats (including conversions and alterations)	84	123	93	
Construction, alteration, repair or maintenance of				
Highways (roads, bridges, footpaths, installation of street lighting and street furniture, surface drains, etc.)	31	36	30	
Parks, promenades, gardens, cemeteries, open spaces (including recreation or sports grounds, tennis courts, bowling greens, swimming pools, etc.)	8	23	28	
Waterworks (including reservoirs, aqueducts, wells, mains, hydraulic works and pumping stations)	6	6	22	
Sewers and sewage disposal works	14	14	35	
New construction work (including site preparation and major extensions and alterations) on				
Factories, workshops and other industrial premises, warehouse and storage premises, repair garages, etc.	9	5	7	
Hospitals, clinics, schools and college buildings and buildings owned by Local Authorities and Government Departments (including Service Departments), not elsewhere specified (that is, excluding houses, etc.)	172	416	105	
Other new construction work	10	4	67	
Shop and office fitting	5	6	10	
Demolition work not included above	-	1	6	
All repairs and maintenance work not included above	9,443	11,104	359	
Total	9,789	11,744	362	

(a) For output of small establishments see Table 5(ii)(B).

(b) Valued at cost, see Introductory Note to Part B, page 12/A/21.

(c) Including the enlargement of existing buildings.

## Total output of small establishments in Great Britain (a)

TABLE 5(ii)(B)

	1951		1954	
	Value of work done in the year	Value of work done in the year	Value of work done in the year	Entries
	£'000	£'000	No.	
Building and construction work				
Construction of new buildings				
Houses and flats	-	-	..	
Other new building construction	1	1	..	
Repair and maintenance work to buildings (e.g. painting, decorating, plumbing, heating, lighting, carpentry work)	351	393	81	
All other work done	15	13	11	
Total	367	408	81	

(a) Establishments, employing on the average ten or fewer persons, that made satisfactory returns.

TABLE 6(B) - Sales of principal products of the industry in establishments classified to other industries

Larger establishments in Great Britain

This table is not applicable to the industry.

TABLE 7(B) - Output in the industry of other than that shown in Table 5(i)(B)

Larger establishments in Great Britain

The total value of goods made by employees in larger establishments of Hospital Authorities in 1954 and not used in the work shown in Table 5(i)(B) was £111,000.

For the output of small establishments see Table 5(ii)(B).

TABLE 8(B) - Total make of intermediate products

Larger establishments in Great Britain

This table is not applicable to the industry.

Purchased materials and fuel used, 1954

Larger establishments in Great Britain (a)

TABLE 9(B)

	Quantity	Cost
	Mn.	£'000
Materials		
Bricks	4.1	39
Cement	6.4	36
Steel used for reinforcement	..	5
Other structural iron and steel	0.2	9
	..	5
Wrought iron and steel tubes and fittings	0.6	50
	..	67
Wood and timber other than reclaimed		
Joinery and other fabricated woodwork	..	83
Other, including timber used for packing case manufacture		
Hardwood	..	35
Softwood	..	168
Insulated electric wires and cables and other electrical materials	..	449
All other purchased materials	..	2,508
Fuel (including coal, coke, gas, petrol and other oil fuel), and electricity used for all purposes (heating, lighting and transport)	..	99
Total cost		3,554

(a) For materials and fuel purchased and used and other charges incurred by small establishments see Table 2(ii)(B).

Average number of employees and wages, salaries and superannuation payments

Larger establishments in Great Britain

TABLE 10(B)

	1951	1954
	Number	Number
Average number of employees		
Operatives	14,437	14,549
Administrative, technical and clerical employees	1,345	1,481
Total	15,782	16,030
Wages and salaries paid to	£'000	£'000
Operatives	5,584	6,811
Administrative, technical and clerical employees	702	868
Total	6,286	7,679
Wages and salaries per head	£	£
Operatives	387	468
Administrative, technical and clerical employees	522	586
Superannuation and other pension funds for employees and dependents		£'000
Employers' contributions	..	373
Employees covered	..	Number 13,892
Pension, etc. payments to former employees and dependents	..	£'000 3

Employment in a specified week (a)

Larger establishments in Great Britain

TABLE 11(B)

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Operatives	14,192	149	14,341	14,425	114	14,539
Administrative, technical and clerical employees	1,282	90	1,372	1,363	119	1,482
Total employees	15,474	239	15,713	15,788	233	16,021

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

## Value of all building and civil engineering industries other than the

## Larger firms or undertakings

	Private firms			
	Building and Contracting Industry			Construc- tional Engin- eering Industry
	Employing 25 or more persons	Employing 11 - 24 persons	Total	
£'000	£'000	£'000	£'000	
Work done as main or direct contractors and specialist work done for principals (c)				
Construction of new houses and flats (including site preparation and estate roads)				
For Local Authorities and Government Departments (including New Town Development Corporations and the Scottish Special Housing Association)	316,212	61,784	479,864	397
Other	101,868			143
Repair and maintenance of houses and flats (including conversions and alterations)	56,671	39,583	96,253	60
Opencast coal prospecting and mining, removal and reinstatement of overburden, etc.	50,782	..	50,782	-
Construction, alteration, repair or maintenance of				
Railways and light railways, tramways and trackless trolley systems (permanent way, tunnels, bridges, overhead wires, etc.)	6,360	..	6,360	1,084
Highways (roads, bridges, footpaths, surface drains, etc.)	28,668	..	28,668	387
Airfields (including hangars and buildings on airfields)	30,098	..	30,098	..
Recreation or sports grounds	3,704	..	3,704	..
Harbours, wharves, docks and piers, canals and waterways, sea walls and embankments	18,220	..	18,220	374
Waterworks (including reservoirs, aqueducts, wells, mains and hydraulic works)	17,712	..	17,712	..
Gas works and mains	17,417	..	17,417	4,491
Telegraph and telephone lines and television cables and works connected therewith	6,248	..	6,248	..
Sewers and sewage disposal works	21,582	..	21,582	..
Power stations (thermal and hydro-electric) and electric power and lighting lines and works	57,193	..	57,193	6,146
Mining development work (sinking and extending shafts, boring and underground work)	3,393	..	3,393	..
Other and unclassified civil engineering	..	5,679	5,679	6,181
New construction work (including site preparation and major extensions and alterations) on				
Factories, workshops and other industrial premises including oil refineries, steel works, etc.	141,999	..	141,999	34,679
Warehouses and storage premises	14,359	..	14,359	3,827
Petrol filling stations, repair garages, etc.	3,971	..	3,971	709
Hospitals, clinics, schools and college buildings	71,059	..	71,059	2,362
Places of public worship and buildings connected therewith	8,165	..	8,165	..
Buildings owned by Local Authorities and Government Departments (including Service Departments) not elsewhere specified (that is, excluding houses, schools, etc.)	34,827	..	34,827	..
Office buildings (other than those for Local Authorities and Government Departments)	22,027	..	22,027	174
Department stores and shops	20,840	..	20,840	..

## work done in 1954, including output returned in Building and Contracting Industry

## in the United Kingdom

	Private firms		Public Authorities				Total
	Other Industries		Hospital Authorities	Local Authorities	Government Departments (b)	Public Utilities	
	Value	Principal industries in which work was done (a)					
£'000	£'000	£'000	£'000	£'000	£'000	£'000	
198	1I, 1L, 4I, 4K	-	30,335	131	-	511,075	
336	1L, 4K, 10B, 10D	7	-	1	-	121,944	
-		123	24,897	274	-	50,782	
507	3M, 4I	..	346	314	69,522	78,133	
979	1B, 1L, 4I, 4J	36	72,133	1,206	-	103,409	
..		-	-	477	-	30,576	
..		23	4,405	7	-	8,140	
64	4A, 4I, 4J	-	695	604	11,805	31,762	
..		6	1,077	116	13,530(d)	32,441	
386	4A, 4D, 4I, 4J	-	-	12	12,149	34,455	
8,370	4K, 4L, 4M	-	-	17,761	1,962	34,341	
..		14	6,167	37	-	27,799	
5,389	2B, 4I, 4L, 4M	-	-	1,109	40,337	110,175	
..		-	-	-	-	3,393	
1,059	1L, 3B, 4A, 4I	-	-	-	-	12,919	
2,017	(e)			559	-	203,105	
226	1L, 4A, 4I	5	304	444	-	75,496	
6				1	-	8,165	
332	4I	416(f)	1,310	16	-	36,867	
..		-	-	-	-	22,207	
..		..	1,031	764	244	21,018	
..		-	-	6	-		
(g)		-	177	1	-		

	Private firms			
	Building and Contracting Industry			Construc- tional Engin- eering Industry
	Employing 25 or more persons	Employing 11 - 24 persons	Total	
£'000	£'000	£'000	£'000	
Work done as main or direct contractors and specialist work done for principals (c) (contd.)				
New construction work (including site preparation and major extensions and alterations) on (contd.)				
Hotels and public houses	8,206	..	8,206	..
Places of indoor entertainment (theatres, cinemas, etc.)	1,929	..	1,929	..
Other and unclassified new construction work	9,757	13,407	23,165	9,709
Demolition work not included above	1,517	..	1,517	..
All repair and maintenance not included above	66,075	23,219	89,295	1,214
Other and unclassified work done	-	-	-	-
Unclassified main contract work	-	-	-	-
Total value of work done as main or direct contractors and specialist work done for principals	1,140,861	143,672	1,284,532	71,939
Work done as sub-contractors	135,812	18,132	153,943	19,407
Main and sub-contract work unclassified	-	-	-	-
Payments received for fee contracts	4,171	..	4,171	-

- (a) The volume number and industry references given are to the industries shown in the list at the back of this report.
- (b) In addition to work done by Government Departments in this industry (see Part A, Table 5(i) (A)II), building and contracting work done was recorded in industries 2H, 4M and 12C (see note (a) above).
- (c) The figures for main contract work include the value of work sub-let to other contractors.
- (d) May include some repair and maintenance work on buildings.
- (e) Work done is widely distributed among other industries.
- (f) Including a small amount in respect of buildings owned by Local Authorities and Government Departments (including Service Departments) not elsewhere specified.
- (g) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be published; the amounts recorded are included in the figures for 'other and unclassified work done'.

Private firms		Public Authorities				Total
Other Industries		Hospital Authorities	Local Authorities	Government Departments (b)	Public Utilities	
Value	Principal industries in which work was done (a)					£'000
£'000		£'000	£'000	£'000	£'000	£'000
..		-	-	-	-	8,206
..		-	-	-	-	1,929
1,494	4I, 4K, 4L, 4M	4	266	74	4,217	38,928
(g)		1	180	2	-	1,700
1,146	(e)	11,104	14,242	8,105	18,964	144,070
2,661		6	50	44	-	2,762
4,993		-	-	-	14,051	19,044
30,164		11,744	157,617	32,065	186,781	1,774,843
14,861	1L, 4I, 5E, 10A	-	-	-	-	188,211
3,341		-	-	-	-	3,341
-		-	-	-	-	4,171



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- D. Slate Quarries and Mines
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