

## SECTION XIV.

## PUBLIC UTILITY SERVICES

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## SECTION XIV.—PUBLIC UTILITY SERVICES.

## GENERAL REPORT.

The following Section deals with gas, water, and electricity undertakings, and with works of construction, alteration, upkeep, and repair executed by the employees of local authorities, of canal, harbour, dock, and similar companies, of tramway and light railway companies, of His Majesty's Post Office (telegraph and telephone undertakings), and of the National Telephone Company.

By Section 7 of the Census of Production Act, 1906, it is provided that "the exercise and performance by a local or other public authority of the powers and duties of that authority shall be treated as the trade or business of that authority." Public authorities were, therefore, required to furnish particulars, not only in respect of their gas, water, and electricity undertakings, but also in respect of works of construction, alteration, upkeep, and repair, executed by their employees in connexion with buildings, highways, sewers, tramways, parks, harbours, docks, cemeteries, telegraphs, telephones, &c. The "output" shown in the Tables is the gross output of each group of undertakings, *i.e.*, where goods pass at different stages through the works of more than one undertaking, their quantity and value has been registered at each stage. Similarly, where work such as work on telegraphic and telephonic lines has been partly sub-let to sub-contractors, the value of the whole work and of each of the parts so sub-let has been independently recorded. The value of this gross output is, therefore, greater in the aggregate than the value of the goods ready for export or consumption manufactured by each group of undertakings considered as a unit, or than the value of the work done by each group of authorities or companies considered as a unit, and the value of the "materials used" shown in the Tables is, for the same reason, greater than the actual value of the materials used by each trade.

Under the limitations imposed by the Census of Production Act, manufacturers could only be required to state the quantities of goods made by them in the case of those commodities entered by quantity in the Official Export and Import Lists. In the majority of the trades included in this Report either the goods made could not be conveniently classified in the manner adopted in the Export and Import Lists, or the work done did not consist in the production of goods for sale. In such cases, accordingly, the output was required to be stated by value only. The figures entered against each class of goods made show the output of the products of that class in the year, whether sold or not, deducting any amount worked up in the same factory into goods of a kind separately classified. Thus, for example, the entry against ammoniacal liquor shows only that portion of such liquor, made in the year of return, which was either sold in the year or held in stock at the end of the year as ammoniacal liquor, and does not include liquor used in the manufacture of sulphate of ammonia or other compounds by the company or authority making the liquor.

In the case of the Returns received from local and other public authorities, canal, dock, harbour, and similar companies, tramway and light railway companies, and the National Telephone Company, in respect of works of construction, alteration, upkeep, and repair executed by their own workpeople, the amount stated as the value of the output is a sum covering wages, cost of materials, and the establishment charges attributable to the works in question. It thus represents the cost of the work, and is not strictly comparable with the value of similar output returned by building and contracting or other firms, which is on a profit basis.

The result of deducting the total cost of materials used (and, in the case of the Post Office and the National Telephone Company, the amount paid for work sub-contracted) from the value of the gross output for any group of companies or authorities is to give a figure which may, for convenience, be called the "net output" of the group. This figure expresses completely and without duplication the total amount by which the value of the products of the group taken as a unit exceeded the value of the materials purchased from outside, *i.e.*, it represents the value added to the materials in the course of manufacture. This sum constitutes for any industry the fund from which wages, salaries, rent, royalties, rates, taxes, depreciation, advertisement and sales expenses, and all other similar charges, as well as profits, have to be defrayed. The net output of local and other public authorities (apart from their gas, water, and electricity undertakings), canal, harbour, dock, and similar companies, tramway and light railway companies, and the National Telephone Company, represents only wages and establishment charges (but not interest, &c., on loans) and is not strictly comparable with the net output of building and contracting and other firms, which contains the element of profit.

The following statement shows, for the industries covered by the present Section of the Report, the gross output, the cost of materials used, the amount paid for work

given out, the "net output" as above defined, the number employed, the net output per person employed, and the horse-power at factories or works. The figures relate to the United Kingdom as a whole :—

Undertaking or Authority.	Gross Output.	Materials Used.	Work Given Out.	Net Output.	Persons Employed.	Net Output per Person Employed.	Horse-Power of Engines Owned.
	Selling Value or Value of Work Done.	Cost.	Amount paid to Other Firms.	Excess of Column (1) over Columns (2) and (3).			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Gas Undertakings :—	£	£	£	£		£	H.-P.
(a) Companies ... ..	20,844,000	9,287,000	—	11,557,000	54,866	211	57,451
(b) Public Authorities ... ..	10,767,000	5,037,000	—	5,730,000	28,574	200	33,618
Waterworks Undertakings :—							
(a) Companies ... ..	2,172,000	445,000	—	1,727,000	4,715	366	46,772
(b) Public Authorities ... ..	8,462,000	1,114,000	—	7,348,000	17,389	423	91,643
Electricity Undertakings :—							
(a) Companies ... ..	3,182,000	1,186,000	—	1,996,000	8,499	235	569,405
(b) Public Authorities ... ..	5,731,000	2,139,000	—	3,592,000	14,119	254	990,669
Total ... ..	51,158,000	19,208,000	—	31,950,000	128,162	—	1,789,558
Local Authorities, England and Wales.	17,077,000	7,141,000	—	9,936,000	143,001	69	171,455
Local Authorities, Scotland ... ..	1,616,000	568,000	—	1,048,000	15,443	68	9,366
Local Authorities, Ireland ... ..	1,325,000	371,000	—	954,000	26,842	36	16,209
Canal, Dock, Harbour, and similar Companies.	862,000	282,000	—	580,000	7,347	79	19,521
Tramway and Light Railway Companies.	637,000	330,000	—	307,000	4,497	68	45,779
His Majesty's Post Office, (Telegraph and Telephone Undertakings).	2,872,639	2,048,557	169,263	654,819	10,171	64	7,849
The National Telephone Company.	1,503,784	837,191	156,364	510,229	7,028	73	—
Total ... ..	25,893,423	11,577,748	325,627	13,950,048	214,329	—	270,179

In the following Table the number of persons employed in factories and workshops is distributed by sex and age and according as they are wage-earners or salaried persons :—

Undertaking or Authority.	Average Number of Persons Employed by the Undertaking or Authority.							
	Wage-earners.				Salaried Persons.			
	Males.		Females.		Males.		Females.	
	Under 18 years of age.	Over 18 years of age.	Under 18 years of age.	Over 18 years of age.	Under 18 years of age.	Over 18 years of age.	Under 18 years of age.	Over 18 years of age.
Gas Undertakings :—								
(a) Companies ... ..	1,566	47,694	1	152	242	5,139	7	65
(b) Public Authorities ... ..	391	24,999	2	79	168	2,915	1	19
Waterworks Undertakings :—								
(a) Companies ... ..	60	3,632	—	22	45	951	—	5
(b) Public Authorities ... ..	189	14,567	—	61	98	2,441	1	32
Electricity Undertakings :—								
(a) Companies ... ..	324	6,476	1	31	133	1,478	3	53
(b) Public Authorities ... ..	310	11,607	—	75	147	1,952	2	26
Total ... ..	2,840	108,975	4	420	833	14,876	14	200
Local Authorities, England and Wales ... ..	1,912	132,405	13	598	250	7,729	3	91
Local Authorities, Scotland ... ..	122	14,310	1	71	31	895	2	11
Local Authorities, Ireland ... ..	189	25,974	—	50	2	616	—	11
Canal, Dock, Harbour, and similar Companies	285	6,696	—	5	24	336	—	1
Tramway and Light Railway Companies ... ..	185	4,035	1	2	28	233	—	13
His Majesty's Post Office (Telegraph and Telephone Undertakings).	500	8,007	—	151	38	1,473	—	2
The National Telephone Company ... ..	382	5,667	—	—	—	979	—	—
Total ... ..	3,575	197,094	15	877	373	12,261	5	129
Grand Total ... ..	6,415	306,069	19	1,297	1,206	27,137	19	329



In the whole group 91·6 per cent. of the persons employed were wage-earners and 8·4 per cent. were salaried persons (including principals). Of the wage-earners 99·6 per cent. were males and 0·4 per cent. were females; 2·1 per cent. of the males and 1·4 per cent. of the females were under 18 years of age. Of the salaried persons 98·8 per cent. were males and 1·2 per cent. were females; 4·3 per cent. of the males and 5·5 per cent. of the females were under 18 years of age.

The aggregate gross value of the output of the authorities and undertakings comprised in this Section, as returned to the Census of Production Office on the Schedules for the Section, is, as stated above, £77,051,423, but this figure does not represent the actual value of the goods made and the work done taken as a whole.

After deducting £388,000 for water and electricity sold by one undertaking to another for distribution and included by both in their Returns, the value of the output of the undertakings comprised in this Section was about £76,663,423. In addition, the value of the goods made and work done by the employees of poor-law authorities, together with the value of the goods made for sale by the inmates of workhouses, amounted to £309,000, while the cost of the materials used was £203,000. The employees of companies and public authorities operating gas, water, or electricity undertakings also carried out works of construction, alteration, and repair in connexion with the buildings, plant, mains, &c., belonging to the undertakings. The total cost of such work amounted to £8,219,000, but it has not been taken as an addition to the output of the undertakings, since, whether immediately met out of capital or out of revenue, such expenditure forms eventually a charge on the value of gas, water, electricity, and other products. The value of work on gas mains, reservoirs, wells, aqueducts, &c., and electric lines and works carried out for gas, water, and electricity undertakings by contractors was returned as £2,851,000.

The following statement shows the net output of the various kinds of work, classed according as power was or was not used in connexion with the work :—

	Power Used.		Power not Used.	
	£		£	
Gas Undertakings ... ..	17,098,000	189,000		
Waterworks Undertakings ... ..	7,978,000	1,097,000		
Electricity Undertakings ... ..	5,588,000	—		
Local Authorities, England and Wales	8,815,000	1,121,000		
Local Authorities, Scotland ... ..	850,000	198,000		
Local Authorities, Ireland ... ..	730,000	224,000		
Canal, Dock, Harbour, and similar Companies.	533,000	47,000		
Tramway and Light Railway Companies	290,000	17,000		
His Majesty's Post Office (Telegraph and Telephone Undertakings).	654,819	—		
The National Telephone Company ...	—	510,229		
Total ... ..	42,536,819	3,403,229		

*Fuel Consumed.*—All companies and public authorities receiving the Schedules for this group were asked to furnish a voluntary statement respecting the quantity of fuel consumed by them in connexion with the production of the goods or the execution of the works shown as their output. On the basis of the very full replies received from gas undertakings it is estimated that 16,203,000 tons of coal were carbonised in the year of return for gas production, and that in addition 438,700 tons of coke and 239,900 tons of oil were used in the production of water gas and for gas enrichment. It also appears from the Returns furnished by tramway and light railway companies that 42,400 tons of coal and 200 tons of coke were used for transport purposes other than the generation of electricity.

The following statement shows the quantities of coal and coke consumed at engines at the various classes of undertakings, the net output of the companies and authorities furnishing particulars being also given :—

Undertaking or Authority.	Net Output of Companies and Authorities furnishing particulars.		Fuel Consumed at Engines.	
	Amount.	Percentage of Total Net Output of Undertakings.	Coal.	Coke.
Gas Undertakings :—	£	per cent.	Tons.	Tons.
(a) Companies ... ..	10,741,000	92·9	28,913	1,578,228
(b) Public Authorities ... ..	5,519,000	96·3	30,382	986,514
Waterworks Undertakings :—				
(a) Companies ... ..	1,504,000	87·1	171,694	11,021
(b) Public Authorities ... ..	6,915,000	94·1	364,171	18,151
Electricity Undertakings :—				
(a) Companies ... ..	1,533,000	76·8	797,023	2,191
(b) Public Authorities ... ..	3,591,000	100·0	1,973,066	26,762
Local Authorities, England and Wales	8,148,000	82·0	403,943	66,225
Local Authorities, Scotland ... ..	863,000	82·3	70,070	3,567
Local Authorities, Ireland ... ..	682,000	71·5	12,930	826
Canal, Dock, Harbour, and similar Companies	497,000	85·7	39,507	1,707
Tramway and Light Railway Companies ...	306,000	99·7	118,514	3,596
His Majesty's Post Office (Telegraph and Telephone Undertakings).	653,000	100·0	38,219	1,479
The National Telephone Company ... ..	510,000	100·0	Nil.	Nil.
Total ... ..	41,464,000	90·3	4,048,432	2,700,267



## Gas Undertakings.

The Tables on pages 870 to 877 are based on Returns received in respect of gas made by companies and by public authorities for sale and for public lighting. Returns were not required from collieries, factories, and other establishments possessing plant for the generation of gas for their own use, except in the case of railway companies (*see* Section III., page 166). The Returns received in respect of the gasworks at the Royal Arsenal, Woolwich, and the Royal Small Arms Factory, Enfield, are included with those received from local authorities in the Tables relating to public authorities.

Separate Tables are given showing the particulars furnished in respect of the undertakings conducted by companies, and in respect of those conducted by public authorities.

The following statement shows the particulars furnished respecting the aggregate output of gas undertakings of both classes, and is free from substantial duplication. Some of the residual products may have been purchased for working up by some of the undertakings from other undertakings. It is believed that any amounts so purchased were not large.

	Quantity.	Value.
Coal Gas and Water Gas ... ..	*	£ 23,161,000
Coke and Breeze ... ..	7,584,000 tons	4,434,000
Crude Tar ... ..	654,000 tons	666,000
Ammoniacal Liquor ... ..	*	321,000
Ammoniacal Liquor and Crude Tar, not separately distinguished ... ..	*	184,000
By-products:—		
Ammonia, Sulphate of ... ..	105,000 tons	1,078,000
Anthracene ... ..	296,000 lbs.	2,000
Benzol and Toluol ... ..	46,000 galls.	2,000
Carbolic Acid ... ..	{ 18,000 galls. 18,000 cwts. }	24,000
Naphtha ... ..	347,000 galls.	9,000
Naphthalene ... ..	44,000 cwts.	12,000
Pitch ... ..	85,000 tons	111,000
Tar (Refined) and Tar Varnishes ... ..	642,000 galls.	6,000
Tar Oil, Creosote, &c. ... ..	7,877,000 galls.	84,000
Other By-products ... ..	*	169,000
Other Products ... ..	*	27,000

The total value of the above-mentioned products amounts to £30,290,000, and is exclusive of the value of any gas and coke used in the gasworks where they were made. The crude tar and ammoniacal liquor included in the statement do not represent the total quantities made, but only the quantities not subjected to further treatment at the works where they were made. In addition, the sum of £1,321,000 was received from consumers for fixing stoves, fittings, &c., exclusive of the cost of the lighting, heating, or cooking apparatus fixed. The value of the total output of gas undertakings was thus £31,611,000.

Under the limitations imposed by the Census of Production Act, it was not possible to require the quantity of gas made to be stated in the compulsory part of the Schedule. All companies and public authorities were, accordingly, requested to furnish a voluntary statement respecting the quantity of gas made by them. The great majority furnished this information, but some supplied particulars only of the gas sold, and companies and authorities that sold gas valued at £370,000 gave no particulars. After due allowance has been made for these deficiencies it may be estimated that the total make of gas in the United Kingdom in the year of return was approximately as follows:—

Statutory Undertakings:—	Thousand cubic feet.
Companies ... ..	118,665,000
Local Authorities ... ..	69,845,000
Total ... ..	188,510,000
Non-Statutory Undertakings:—	
Companies ... ..	7,095,000
Public Authorities ... ..	682,000
Total ... ..	7,777,000
Grand Total ... ..	196,287,000

\* Recorded by value only.

The Annual Returns of Gas Undertakings (H. of C. Papers 180 and 181 of 1909), cover only undertakings operating under statutory powers and generally relate to the year 1907 in the case of companies and to the twelve months ended 31st March, 1908, in the case of local authorities. The output shown in these Returns was 118,699,705 thousand cubic feet in the case of companies, and 69,786,988 thousand cubic feet in the case of local authorities. The very small differences between these figures and those given on the opposite page are due to the fact that in some cases the Returns made to the Census of Production Office were not for the periods covered by the Annual Returns. According to the Annual Returns the quantity of gas sold by authorised undertakings was 172,889,147 thousand cubic feet, and, on the assumption that the relation between gas sold and gas made is similar for authorised and non-authorised undertakings, the total quantity sold and consumed in the United Kingdom in the year of return would be about 180,000,000 thousand cubic feet, the difference between make and sales being accounted for by gas used in works and leakages from mains.

In addition to the gas made at public gas undertakings, railway companies stated in their Returns (*see* Section III. page 166), that they made for their own purposes 1,411,486 thousand cubic feet of coal gas at the cost of £146,000 and 441,931 thousand cubic feet of oil gas costing £140,000.

Taking into account foundry coke made at collieries, ironworks, &c., and gas coke made by railway companies and by other manufacturers, the total output of foundry and gas coke and breeze (excluding coke used in the gasworks where it was made) in the United Kingdom in the year of return amounted to 20,064,000 tons, valued at £14,839,000. Ammoniacal liquor (including ammoniacal liquor and crude tar not separately distinguished) to the value of £587,000 was either sold or held in stock as ammoniacal liquor at all classes of works. The products of coal-tar distillation at all classes of works are dealt with in the Report on the chemicals, coal-tar products, drugs, and perfumery trades (*see* pages 546 to 551).

The total output of sulphate of ammonia at all classes of works was returned to the Census Office as 264,000 tons. With regard to the output of sulphate of ammonia, the Chief Inspector of Alkali Works, on page 20 of his forty-fifth Annual Report (H. of C. Paper 170 of 1909), estimated that in 1907 "the recovery and production of ammonia in the United Kingdom, expressed in terms of sulphate," was the equivalent of 313,000 tons of sulphate of ammonia, adding that these figures "do not represent produce of sulphate of ammonia." His estimate of the theoretical produce of sulphate of ammonia showed 165,000 tons from gasworks and 148,000 tons from other works, as compared with actual quantities of 105,000 tons returned to the Census Office as produced at gasworks and 159,000 tons as produced at other works. There is thus a difference of 49,000 tons between the actual and the theoretical quantities of sulphate of ammonia. With regard to this difference two points have to be noted. First, it appears from the Report quoted that in 1908 it was discovered that there had been certain errors in the method of calculating the quantities for previous years, and that consequently the theoretical total for 1907 is somewhat over-estimated. Secondly, the principal difference between the two figures occurs in the produce of gasworks, and in addition to the 105,000 tons of sulphate of ammonia returned to the Census Office as produced at such works, there was also produced ammoniacal liquor valued at £321,000 (or, including liquor produced at other works, £403,000) and ammoniacal liquor and crude tar, not separately distinguished, valued at £184,000. This liquor was sold partly to alkali works for use in the production of alkali by the ammonia soda process, and partly to other works making ammonia, ammonia carbonate, ammonia chloride, and other ammonia compounds. Particulars as to large quantities of ammonia and ammonia compounds were returned to the Census Office, but, in order to avoid the possibility of disclosing particulars relating to individual firms, they have not been shown separately but are included in the group of "unenumerated chemicals" on page 546 and in the group of "other by-products," in the statement on the previous page. All such ammonia and ammonia compounds, as well as the liquor sold to alkali works, are included by the Chief Inspector in his estimate of their equivalent in sulphate of ammonia. Further, some sulphate of ammonia was probably worked up by the makers into compound manures, and included as such in the Returns made to the Census Office. Thus there appears to be no inconsistency between the figures of actual output of sulphate of ammonia as returned to the Census Office and the estimate of the production of ammonia and ammonia compounds made by the Chief Inspector of Alkali Works in terms of sulphate of ammonia.

The exports of coke in 1907 amounted to 981,000 tons, or nearly 5 per cent. of the total output in the United Kingdom; the net imports (*i.e.*, imports less re-exports) were 18,000 tons. The exports of sulphate of ammonia amounted to 231,000 tons, or



87.5 per cent. of the total output; the imports are not separately specified. The exports and imports of other coal-tar products are dealt with on page 549.

The working staff of gas undertakings is not employed solely in the production of gas, but also in works of construction, alteration, and repair in connexion with the buildings, plant, mains, &c., the total cost of such work being £3,534,000. The cost of such work, whether immediately met out of capital or out of revenue, forms eventually a charge on the value of the gas and other products sold; consequently, it has not been taken as an addition to the output of gas undertakings, in the meaning in which that term has been used for the purposes of the Census. In addition, similar works of construction, alteration, and repair of gas mains and works other than buildings or plant were carried out for gas undertakings by contractors, and their value (£410,000) was included in the Returns for the building and contracting trades (*see* page 762).

*Net Output.*—The net output of all the gas undertakings covered by this Report is £17,287,000, that sum representing the total amount by which the value of the output exceeded the cost of the materials used. The actual cost of materials was about £14,324,000.

*Persons Employed.*—The average number of persons employed on the four dates for which the numbers were returned was 83,440, viz., 74,884 wage-earners and 8,556 salaried persons. Of the total number, 81,790 (including 8,505 salaried persons) were employed at gasworks and 1,650 (including 51 salaried persons) at tar-distilling and ammonia works. The total number of persons ordinarily employed at gasworks, according to the Home Office Return of persons employed in 1907 in Non-Textile Factories (Cd. 5398), was 62,234. This total refers to persons employed "wholly or partially in the factory," while the returns to the Census of Production Office include members of the outdoor staff, but the whole of this outdoor staff (collectors, repairers, &c.) does not appear to have been included in some cases, and allowance should be made for this in comparing the net output with the number employed.

*Power.*—The aggregate capacity of the engines at gasworks was returned as 91,069 horse-power. Particulars as to the capacity of dynamos owned and of the quantities of electricity generated or purchased were not asked for.

*Coal Carbonised and Capacity of Plant.*—Gas companies and public authorities were asked to furnish a voluntary statement respecting the quantity of coal carbonised and the maximum capacity of their retorts as measured by the quantity of coal they could carbonise weekly. On the basis of the Returns furnished it is calculated that 16,203,000 tons of coal were carbonised for the production of 174,882,000 thousand cubic feet of coal gas, and that not less than 1,800 tons of oil were used for gas enrichment. Further, 438,700 tons of coke and 238,100 tons of oil were used in the production of 21,405,000 thousand cubic feet of water gas. Companies and authorities producing over 90 per cent. of the total output of coal gas stated that the weekly capacity of their retorts was 542,564 tons of coal carbonised, and that the total quantity of coal actually carbonised in the year of return was 14,714,300 tons. It should be remembered, however, that gas production is a seasonal industry, and allowance should also be made for the intervals during which retorts are under repair.

#### (a) COMPANIES.

*Output.*—The following statement shows the particulars furnished by gas companies respecting the output of their gasworks, and is free from substantial duplication:—

	Quantity.	Value. £
Coal Gas and Water Gas ... ..	*	15,328,000
Coke and Breeze ... ..	4,707,000 tons	2,968,000
Crude Tar ... ..	369,000 tons	366,000
Ammoniacal Liquor ... ..	*	140,000
Ammoniacal Liquor and Crude Tar, not separately distinguished ... ..	*	18,000
By-products:—		
Ammonia, Sulphate of ... ..	73,000 tons	729,000
Anthracene ... ..	280,000 lbs.	2,000
Benzol and Toluol ... ..	38,000 galls.	2,000
Carbolic Acid ... ..	14,000 cwts.	20,000
Naphtha ... ..	57,000 galls.	3,000
Naphthalene ... ..	29,000 cwts.	11,000
Pitch ... ..	64,000 tons.	88,000
Tar (Refined) and Tar Varnishes ... ..	154,000 galls.	2,000
Tar Oil, Creosote, &c. ... ..	6,247,000 galls.	67,000
Other Sorts ... ..	*	144,000
Other Products ... ..	*	6,000

\* Recorded by value only.

The total value of the above products amounts to £19,894,000, and is exclusive of the value of any gas and coke used in the gasworks where they were made. As already noted, the crude tar and ammoniacal liquor included in the statement do not represent the total quantities made in companies' gasworks, but only the quantities not subjected to further treatment at the works where they were made. In addition, the sum of £950,000 was received from consumers for fixing stoves and other fittings, &c., exclusive of the cost of the lighting, heating, or cooking apparatus fixed. The total value of the output of the gas undertakings conducted by companies was thus £20,844,000.

A summary of the particulars furnished in respect of the cost of works of construction, alteration, and repair in connexion with the buildings, plant, mains, &c., executed by the working staff in the year of return (covering wages, materials, and establishment charges attributable to the work), is shown below, the work given out to contractors not being included:—

Class of Work Done by Employees of Companies.	Construction.	Alteration and Repair.	Total.
	£	£	£
Buildings and Plant ... ..	172,000	1,307,000	1,479,000
Street Mains ... ..	324,000	378,000	702,000
Work, not separately distinguished ... ..	—	—	172,000
Total Cost of Work Done ... ..	—	—	2,353,000

*Net Output.*—The net output of gas undertakings conducted by companies and covered by the Tables on pages 870 to 873 (whose gross output was valued at £20,844,000) was £11,557,000, that sum representing the total amount by which the value of the output of these gas undertakings exceeded the cost of the materials used. The actual cost of materials was about £9,287,000.

The net output per head of persons returned as employed in the censal year was nearly £211.

*Persons Employed.*—The average number of persons employed on the last pay-days in January, April, July, and October, in connexion with gas undertakings conducted by companies, and covered by Tables on pages 870 to 873, is returned as 54,866, viz.:—

Persons Employed.	Wage-earners.	Salaried Persons.	Total.
At Gasworks ... ..	48,175	5,417	53,592
At Tar-Distilling and Ammonia Works ... ..	1,238	36	1,274
Total ... ..	49,413	5,453	54,866

The following statement affords some indication of the seasonal variation in employment:—

	Persons Employed on the last Pay-day in			
	January.	April.	July.	October.
Wage-earners employed at—				
Gasworks ... ..	51,628	46,759	45,265	49,049
Tar-Distilling and Ammonia Works ... ..	1,289	1,264	1,161	1,239
Total—Wage-earners ... ..	52,917	48,023	46,426	50,288
Salaried Persons employed at—				
Gasworks ... ..	5,400	5,428	5,414	5,424
Tar-Distilling and Ammonia Works ... ..	34	35	37	37
Total—Salaried Persons ... ..	5,434	5,463	5,451	5,461
Total—Wage-earners and Salaried Persons	58,351	53,486	51,877	55,749

The total number returned was distributed by age and sex as follows:—

Males:—		Females:—	
Under 18 ... ..	1,808	Under 18 ... ..	8
Over 18 ... ..	52,833	Over 18 ... ..	217



As stated on page 836, it is probable that in some cases the whole of the outdoor staff of the companies (collectors, repairers, &c.), has not been included in the above figures, and, although it appears that the number omitted is not large, allowance should be made for this in considering the net output per head.

*Power.*—The total capacity of the engines at gasworks conducted by companies was 57,451 horse-power, classified as follows :—

	Gasworks.	Tar-Distilling and Ammonia Works.	Total.
Steam Engines :—	Horse-Power.	Horse-Power.	Horse-Power.
Reciprocating ... ..	42,680	1,602	44,282
Steam Turbines ... ..	1,087	—	1,087
Total—Steam Engines ... ..	43,767	1,602	45,369
Internal Combustion Engines (gas, oil, &c.) ... ..	10,678	387	11,065
Electric Motors (so far as returned) ... ..	750	47	797
Water Power ... ..	100	5	105
Other Power ... ..	115	—	115
Total ... ..	55,410	2,041	57,451

Particulars of the capacity of dynamos owned or of electricity generated or purchased were not required to be stated.

*Coal Carbonised and Capacity of Plant.*—Gas companies were also requested to furnish a voluntary statement regarding the quantity of coal carbonised, and the maximum capacity of their retorts as measured by the quantity of coal which they could carbonise weekly. Returns of coal carbonised were received from companies producing 91·5 per cent. of the total gas output of gas works owned by companies, and on the basis thus afforded the following particulars have been computed :—

	Gas Made.	Used in the Production of Gas.		
		Coal.	Coke.	Oil.
	Thousand Cubic Feet.	Tons.	Tons.	Tons.
Coal Gas ... ..	109,357,000	9,964,300	—	800
Water Gas ... ..	16,403,000	—	330,900	186,400
Total ... ..	125,760,000	9,964,300	330,900	187,200

Companies producing 86·3 per cent. of the total output of coal gas by companies stated that the weekly capacity of their retorts was 324,875 tons of coal carbonised, and that the total quantity of coal actually carbonised in the year of return was 8,808,400 tons. It should be remembered, however, that gas production is a seasonal industry, and allowance should also be made for the intervals during which retorts are under repair.

(b) PUBLIC AUTHORITIES.

*Output.*—The following statement shows the particulars furnished by public authorities respecting the output of their gasworks, and is free from substantial duplication :—

	Quantity.	Value. £
Coal Gas and Water Gas ... ..	*	7,833,000
Coke and Breeze ... ..	2,877,000 tons	1,466,000
Crude Tar ... ..	285,000 tons	300,000
Ammoniacal Liquor ... ..	*	181,000
Ammoniacal Liquor and Crude Tar, not separately distinguished ... ..	*	166,000

\* Recorded by value only.

By-products :—	Quantity.	Value. £
Ammonia, Sulphate of ... ..	32,000 tons	349,000
Anthracene ... ..	16,000 lbs.	†
Benzol and Toluol ... ..	8,000 galls.	†
Carbolic Acid ... ..	{ 18,000 galls. } { 4,000 cwts. }	4,000
Naphtha ... ..	290,000 galls.	6,000
Naphthalene ... ..	15,000 cwts.	1,000
Pitch ... ..	21,000 tons	23,000
Tar (Refined) and Tar Varnishes	488,000 galls.	4,000
Tar Oil, Creosote, &c. ... ..	1,630,000 galls.	17,000
Other Sorts ... ..	*	25,000
Other Products ... ..	*	21,000

The total value of the above-mentioned products amounts to £10,396,000, and is exclusive of the value of any gas and coke used in the gasworks where they were made. As already noted, the crude tar and ammoniacal liquor included in the statement do not represent the total quantities made in public authorities' gasworks, but only the quantities not subjected to further treatment at the works where they were made. In addition, the sum of £371,000 was received from consumers for fixing stoves and other fittings, exclusive of the cost of the lighting, heating, or cooking apparatus fixed. The value of the total output of the gas undertakings conducted by public authorities was thus £10,767,000.

A summary of the particulars furnished in respect of the cost of works of construction, alteration, and repair in connexion with the buildings, plant, mains, &c., executed by the working staff in the year of return (covering wages, materials, and establishment charges attributable to the work), is given below, work given out to contractors not being included :—

Work Done by Employees of Public Authorities.	Construction.	Alteration and Repair.	Total.
	£	£	£
Buildings and Plant ... ..	38,000	610,000	648,000
Street Mains ... ..	164,000	227,000	391,000
Work, not separately distinguished ... ..	—	—	142,000
Total Cost of Work Done ... ..	—	—	1,181,000

*Net Output.*—The net output of gas undertakings conducted by public authorities and covered by the Tables on pages 874 to 877 (whose gross output was valued at £10,767,000) was £5,730,000, that sum representing the total amount by which the value of the output exceeded the cost of the materials used. The actual cost of materials was about £5,037,000.

The net output per head of persons returned as employed in the censal year was a little over £200.

*Persons Employed.*—The average number of persons employed on the last pay-days in April, July, and October, 1907, and January, 1908, in connexion with gas undertakings conducted by public authorities, and covered by the Tables on pages 874 to 877 is returned as 28,574, viz. :—

	Wage-earners.	Salaried Persons.	Total.
At Gasworks ... ..	25,110	3,088	28,198
At Tar-Distilling and Ammonia Works ... ..	361	15	376
Total ... ..	25,471	3,103	28,574

\* Recorded by value only.

† Under £500.



The following statement affords some indication of the seasonal variation in the employment :—

	Persons Employed on the last Pay-day in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
Wage-earners employed at—				
Gasworks ... ..	23,724	23,157	25,755	27,803
Tar-Distilling and Ammonia Works	346	282	407	410
Total—Wage-earners ...	24,070	23,439	26,162	28,213
Salaried Persons employed at—				
Gasworks ... ..	3,088	3,077	3,086	3,099
Tar-Distilling and Ammonia Works	15	14	16	16
Total—Salaried Persons ...	3,103	3,091	3,102	3,115
Total—Wage-earners and Salaried Persons.	27,173	26,530	29,264	31,328

The total number returned was distributed by age and sex as follows :—

Males :—		Females :—	
Under 18 ... ..	559	Under 18 ... ..	3
Over 18 ... ..	27,914	Over 18 ... ..	98

As stated on page 836, it is probable that in some cases the whole of the outdoor staff (collectors, repairers, &c.) has not been included in the above figures, and, although it appears that the number omitted is not large, allowance should be made for this in considering the net output per head.

*Power.*—The total capacity of the engines at gasworks conducted by public authorities was 33,618 horse-power classified as follows :—

	Gasworks.	Tar-Distilling and Ammonia Works.	Total.
	Horse-Power.	Horse-Power.	Horse-Power.
Steam Engines :—			
Reciprocating ... ..	26,804	617	27,421
Steam Turbines ... ..	646	30	676
Total—Steam Engines ... ..	27,450	647	28,097
Internal Combustion Engines (gas, oil, &c.) ... ..	4,904	18	4,922
Electric Motors (so far as returned) ... ..	369	—	369
Water Power ... ..	68	—	68
Other Power ... ..	162	—	162
Total ... ..	32,953	665	33,618

Particulars of the capacity of dynamos owned or of electricity generated or purchased were not required to be stated.

*Coal Carbonised and Capacity of Plant.*—Public authorities were also requested to furnish a voluntary statement regarding the quantity of coal carbonised, and the maximum capacity of their retorts as measured by the quantity of coal which they could carbonise weekly. Returns of coal carbonised were received from public authorities producing 98·8 per cent. of the total gas output of gasworks owned by public authorities, and on the basis thus afforded the following particulars have been computed :—

	Gas Made.	Used in the Production of Gas.		
		Coal.	Coke.	Oil.
	Thousand Cubic Feet.	Tons.	Tons.	Tons.
Coal Gas ... ..	65,525,000	6,238,700	—	1,000
Water Gas ... ..	5,002,000	—	107,800	51,700
Total ... ..	70,527,000	6,238,700	107,800	52,700

Public authorities manufacturing 94·5 per cent. of the total output of coal gas from gasworks owned by public authorities stated that the weekly capacity of their retorts was 217,689 tons of coal carbonised, and that the total quantity of coal actually carbonised in the year of return was 5,905,900 tons. It should be remembered, however, that gas production is a seasonal industry, and allowance should also be made for the intervals during which retorts are under repair.

### Waterworks Undertakings.

*Output.*—The Tables on pages 878 to 882 are based on Returns received in respect of waterworks undertakings owned by companies (including hydraulic power companies) and public authorities. Private waterworks owned by manufacturers, brewers, &c., for the supply of water for their own purposes are not included. The Returns received in respect of the waterworks at the Royal Arsenal and Royal Dockyard, Woolwich, are included with those received from local authorities in the Tables relating to public authorities. Separate Tables are given showing the particulars furnished in respect of the undertakings owned by companies and in respect of those owned by public authorities.

Companies and public authorities were directed to state as the selling value of the water supplied (a) the net amount charged, less discounts, to private consumers, whether the charge was levied by rate or as rent or in any other way; and (b) the actual amount charged in the case of water supplied to another department of a local authority, or for water supplied in bulk to other undertakings. Contributions from the local rates to make up any deficiency in the income of waterworks undertakings are not included.

The total sum returned as the value of water supplied by companies and public authorities is £10,489,000, and, in addition, £145,000 was received from consumers for the fixing of meters, pipes, fittings, &c. Certain companies and local authorities purchased from other companies and public authorities water in bulk for distribution, and the sellers as well as the distributors included the price received in the value of their output. In the cases in which such duplicate entries have been identified, the value of the water thus supplied in bulk is estimated at about £109,000. Allowing for this duplication, the total value of the water supplied was about £10,380,000, and adding the amount (£145,000) received from consumers for fixing fittings, &c., the value of the total output of waterworks undertakings was about £10,525,000.

In addition, the value of the water sold by railway companies and included on page 166 under the heading of "other manufactures and work done" was £41,000, raising the total value of the water supplied in the United Kingdom, so far as returned to the Census of Production Office, to about £10,421,000.

Under the limitations imposed by the Census of Production Act, it was not possible to require, in the compulsory part of the Schedule, a statement of the quantity of water supplied to consumers. Companies and local authorities were, therefore, requested to furnish a voluntary statement respecting the quantity of water supplied.

Companies and public authorities that supplied water to the value of £9,601,000 (or 91·5 per cent. of the aggregate value of the water supplied) stated that the quantity supplied by them was nearly 356,380 million gallons, or about 351,080 million gallons after deduction of water bought by one undertaking from another and returned by both. It may be estimated that the total quantity of water supplied by waterworks undertakings was about 385,000 million gallons. No information is available as to the quantity of water supplied without special charge by a number of the smaller authorities or obtained from public wells.

The working staff of companies and public authorities was also engaged in executing works of construction, alteration, and repair in connexion with the reservoirs, wells, aqueducts, mains, machinery, plant, &c., the total cost of such works being £2,363,000.

The cost of such work, whether immediately met out of capital or out of revenue, forms eventually a charge on the value of the water supplied; consequently, it has not been taken as an addition to the output of waterworks undertakings, in the meaning in which that term has been used for the purposes of the Census.

In addition, the value of works of construction, alteration, and repair of waterworks, including reservoirs, wells, aqueducts, mains from reservoirs, street mains, hydraulic works, &c. carried out by builders and contractors, was returned as £1,799,000 (see page 762) and the cost of similar work carried out by railway companies was £155,000 (see page 165). Local authorities also spent £19,000 in maintaining the service of water where the water was supplied free of charge.



*Net Output.*—The net output of all the waterworks undertakings covered by this Report was £9,075,000, that sum representing the total amount by which the value of the output of such undertakings, taken as a whole, exceeded the cost of the materials used in connexion therewith. The actual cost of such materials was about £1,450,000.

*Persons Employed.*—The average number of persons employed in connexion with waterworks undertakings on the four days for which the numbers were returned was 22,104, viz., 18,531 wage-earners and 3,573 salaried persons.

*Power.*—The total capacity of the engines used at waterworks is returned as 138,415 horse-power. Particulars as to the capacity of dynamos owned and as to the quantities of electricity generated or purchased were not required to be stated.

## (a) COMPANIES.

*Output.*—The total value of the water supplied by companies, including hydraulic power companies, is returned as £2,148,000. This sum includes the selling value of water purchased in bulk for distribution at the cost of about £22,000, of which water valued at about £20,000 was purchased from local authorities and water valued at about £2,000 was purchased from other companies. This latter sum involves duplication in this section to that amount, so that the net value of the water supplied by companies is reduced to £2,146,000. In addition, £24,000 was received from consumers for fixing meters, fittings, &c. (exclusive of the cost of the meters, &c.), raising the value of the total output of waterworks undertakings owned by companies to £2,170,000.

Companies that supplied water to the value of £1,743,000 (or about 81·1 per cent. of the aggregate value of the water supplied by companies) stated that the quantity supplied was 52,692 million gallons, of which about 840 million gallons were purchased in bulk from public authorities. Deducting about 50 million gallons bought by one company from another and returned by both, the quantity of water distributed by these companies (including water sold to local authorities) was about 52,642 million gallons.

The working staff of waterworks companies is not employed solely in the operation of the waterworks, but also in works of construction, alteration, and repair in connexion with the reservoirs, wells, aqueducts, mains, machinery, plant, &c.

A summary of the particulars furnished in respect of the cost of such work done in the year of return (covering wages, materials, and establishment charges attributable to the work) is shown below, work given out to contractors not being included :—

Class of Work Done by Employees of Companies.	Construction.		Total.
	Alteration and Repair.		
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.).	£ 234,000	£ 174,000	£ 408,000
Buildings in connexion with Waterworks ... ..	12,000	9,000	21,000
Machinery and Plant in connexion with Waterworks...	8,000	53,000	61,000
Work, not separately distinguished ... ..	57,000	12,000	69,000
Total Cost of Work Done ... ..	311,000	248,000	559,000

*Net Output.*—The net output of the waterworks undertakings conducted by companies and covered by the Tables on pages 878 and 879 (whose gross output was valued at £2,172,000) was £1,727,000, that sum representing the total amount by which the selling value of the water supplied exceeded the cost of water purchased and the cost of the fuel and other materials used in pumping and distributing the water and in the execution of works of construction, alteration, and repair. After elimination of the cost of water purchased by one company from another, and returned by both, the actual cost of materials used and of water purchased from local authorities was about £443,000.

The net output per head of persons employed in the censal year was a little over £366.

*Persons Employed.*—The average number of persons employed on the last pay-days in January, April, July, and October in connexion with waterworks undertakings conducted by companies and covered by the Tables on pages 878 and 879 is returned as 4,715, viz., 3,714 wage-earners and 1,001 salaried persons, the total number being distributed by age and sex as follows :—

Males :—			Females :—		
Under 18 ... ..	105		Under 18 ... ..	None.	
Over 18 ... ..	4,583		Over 18 ... ..	27	

The variation in employment during the censal year is shown in the following statement :—

	Persons Employed on the last Pay-day in			
	January.	April.	July.	October.
Wage-earners ... ..	3,495	3,843	3,727	3,789
Salaried Persons ... ..	997	1,001	1,005	1,003
Total ... ..	4,492	4,844	4,732	4,792

*Power.*—The total capacity of the engines at waterworks conducted by companies (whose output was valued at £2,052,000 and who employed 4,420 persons) was returned to the Census Office as 46,772 horse-power, classified as follows :—

Steam Engines :—	Horse-Power.
Reciprocating ... ..	42,260
Steam Turbines ... ..	7
Total—Steam Engines ... ..	42,267
Internal Combustion Engines (gas, oil, &c.) ... ..	4,064
Water Power ... ..	402
Electric Motors (so far as returned) ... ..	18
Other Power ... ..	21
Total... ..	46,772

Companies with an output valued at £120,000 and employing 295 persons used no mechanical power.

Particulars of the capacity of dynamos owned or of electricity generated or purchased were not required to be stated.

## (b) PUBLIC AUTHORITIES.

*Output.*—The Tables on pages 880 to 882 are based on Returns received from local and other public authorities in respect of waterworks undertakings conducted by them for the sale of water for private and public purposes. Cases where the local authority controls the supply of water but does not charge for the supply, the cost being met out of the general rate, are not included in these Tables, but the expenditure of the local authority in works of maintenance of the service is included in the Returns (*see* pages 853, 858 and 861).

The total value of the water supplied by public authorities is returned as £8,341,000. This sum includes the selling value of water purchased in bulk for distribution at the cost of about £87,000, of which water valued at about £9,000 was purchased from companies and water valued at about £78,000 was purchased from other public authorities. This latter sum involves duplication to that amount, so that the net value of the water supplied by local authorities is reduced to about £8,263,000. In addition, £121,000 was received from consumers for fixing meters, pipes, fittings, &c. (exclusive of the cost of the meters, &c.), thus raising the value of the total output of waterworks undertakings conducted by public authorities to about £8,384,000.

Public authorities that supplied water to the value of about £7,858,000 (or 94·2 per cent. of the aggregate value of the water supplied by public authorities) stated that the quantity supplied was 303,688 million gallons, of which 312 million gallons were purchased in bulk from companies. Deducting about 4,100 million gallons bought by one public authority from another, and returned by both, the quantity of water distributed by these public authorities, including water sold to companies, was about 299,588 million gallons.

As has already been explained in the case of companies (*see* previous page), the working staff of the waterworks undertakings of public authorities is engaged not only in operating the waterworks, but in works of construction, alteration, and repair in connexion with the reservoirs, wells, aqueducts, mains, machinery, plant, &c. The cost of such work has not been taken as part of the output of the undertakings, but a summary of the



particulars furnished in respect of the cost of such work (covering wages, materials, and establishment charges attributable to the work) is given below, work given out to contractors not being included :—

Class of Work Done by Employees of Public Authorities.	Construction.	Alteration and Repair.	Total.
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.).	£ 534,000	£ 838,000	£ 1,372,000
Buildings in connexion with Waterworks ... ..	10,000	12,000	22,000
Machinery and Plant in connexion with Waterworks... ..	16,000	50,000	66,000
Work, not separately distinguished ... ..	—	—	344,000
Total Cost of Work Done ... ..	—	—	1,804,000

*Net Output.*—The net output of the waterworks undertakings conducted by public authorities and covered by the Tables on pages 880 to 882 (whose gross output was valued at £8,462,000) was £7,348,000, that sum representing the total amount by which the value of the water supplied exceeded the cost of water purchased and the cost of the fuel and other materials used in pumping and distributing the water and in the execution of works of construction, alteration, and repair. After allowing for the cost of water purchased by one public authority from another, and returned by both, the actual cost of materials used and of water purchased from companies was about £1,036,000.

The net output per head of persons employed in the censal year was nearly £423.

*Persons Employed.*—The average number of persons employed on the last pay-days in April, July, and October, 1907, and January, 1908, in connexion with waterworks undertakings conducted by public authorities and covered by the Tables on pages 880 to 882 was 17,389, viz., 14,817 wage-earners and 2,572 salaried persons, the total number being distributed by age and sex as follows :—

Males :—		Females :—	
Under 18 ... ..	287	Under 18 ... ..	1
Over 18 ... ..	17,008	Over 18 ... ..	93

The variation in employment during the censal year is shown in the following statement :—

	Persons Employed on the last Pay-day in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
Wage-earners ... ..	14,983	14,653	14,429	15,202
Salaried Persons ... ..	2,584	2,552	2,567	2,587
Total ... ..	17,567	17,205	16,996	17,789

*Power.*—The total capacity of the engines at waterworks conducted by public authorities was returned to the Census Office as 91,643 horse-power, classified as follows :—

Steam Engines :—	Horse-Power.
Reciprocating ... ..	85,125
Steam Turbines ... ..	238
Total—Steam Engines ... ..	85,363
Internal Combustion Engines (gas, oil, &c.) ... ..	3,853
Water Power ... ..	2,131
Electric Motors (so far as returned) ... ..	292
Other Power ... ..	4
Total ... ..	91,643

Particulars of the capacity of dynamos owned or of electricity generated or purchased were not required to be stated.

## Electricity Undertakings.

*Output.*—The Tables on pages 883 to 890 are based on Returns received from companies and public authorities engaged in the generation of electricity for sale or for public uses. Returns in respect of the value of electricity generated were not required from factories, warehouses, shops, hotels, theatres, or other establishments possessing installations for the generation of electricity solely for their own use, or from railway companies, light railway companies, and tramway companies. The generation of electricity in connexion with municipal tramway and light railway undertakings is, however, covered by the Returns received from local authorities in respect of their electricity undertakings. The Returns received in respect of the central power stations at the Royal Arsenal and Royal Dockyard, Woolwich, are included in the Tables with the Returns received from local authorities.

Separate Tables are given showing the particulars furnished in respect of the undertakings conducted by companies and in respect of those conducted by public authorities.

The total quantity of electricity generated by companies and public authorities (exclusive of that generated for their own use by industrial and commercial establishments and by railway and tramway companies) amounted to 1,432,101,000 Board of Trade units. Further, 174,410,000 units were generated by railway companies and 55,409,000 units by tramway and light railway companies for their own purposes.

A certain proportion of the electricity generated is lost in transmission, and under the limitations imposed by the Census of Production Act it was not possible to require a statement of the quantity of electricity supplied to consumers to be made in the compulsory part of the Schedule. Companies and public authorities were requested to furnish a voluntary statement respecting the quantity of electricity supplied to consumers and the purposes for which it was supplied, together with the quantity used in the works. The particulars furnished are dealt with below.

Companies and public authorities were directed to state as the selling value of the electricity supplied (a) the net amount charged, whether by meter or on contract, for electricity supplied to consumers or supplied in bulk to authorised distributors; (b) the generation cost of electricity used in the works; and (c) the actual price charged in the case of electricity supplied to another department of a company or public authority.

Companies purchased from other companies or from public authorities 32,424,000 Board of Trade units of electricity, the estimated selling value of which was about £232,000, and public authorities purchased from companies or from other public authorities 14,205,000 Board of Trade units of electricity, the estimated selling value of which was about £106,000. Eliminating the estimated works value (£279,000) of these duplicated amounts, the value of the electricity supplied by distributing companies and public authorities was about £8,634,000.

The working staff of companies and public authorities engaged in the generation of electricity is not employed solely in the operation of the generating plant, but also in works of construction, alteration, and repair in connexion with the buildings, engines, machinery, apparatus, mains, &c., the total cost of such work being £2,322,000. The cost of such work, whether immediately met out of capital or out of revenue, forms eventually a charge on the value of the electricity supplied; consequently, it has not been taken as an addition to the output of electricity undertakings, in the meaning in which that term has been used for the purposes of the Census. The value of similar work carried out on electric lines and works by contractors was returned as £642,000.

*Net Output.*—The net output of all the electricity undertakings covered by this Report was £5,588,000, that sum representing the total amount by which the output of such undertakings, taken as a whole, exceeded the cost of the materials used in connexion therewith. The actual cost of such materials was about £3,000,000.

*Persons Employed.*—The average number of persons employed in connexion with electricity undertakings on the four days for which the numbers were returned was 22,618, viz., 18,824 wage-earners and 3,794 salaried persons.

*Power.*—The capacity of the engines owned at electricity supply works was 1,560,074 horse-power, and the capacity of the dynamos (which should not be added to that of the engines) was 1,020,312 kilowatts.

### (a) COMPANIES.

*Output.*—The quantity of electricity generated by companies, other than railway, light railway, and tramway companies, amounted to 545,055,000 Board of Trade units, and the selling value of the electricity supplied to consumers or used in the works was returned as £3,182,000. This sum includes £232,000, the selling value to consumers of



electricity purchased from other companies and from public authorities, but, as the purchases from companies and from public authorities are not distinguished, and all the Returns do not relate to the same period, the precise amount of duplication in the value of the output of electricity supply companies cannot be determined. It would appear, however, by comparison with the Returns for public authorities (see page 848) that the sales by companies to companies lay between £153,000 and £182,000, so that the value of the output, after allowing for duplication, lay between £3,000,000 and £3,029,000.

Companies that themselves generated all the electricity which they supplied, and whose output amounted to 337,346,000 units or 61.9 per cent. of the total output of electricity supply companies, furnished particulars as to the purposes for which the electricity supplied by them was used, and the details are given in the following statement:—

Electricity Sold:—		Board of Trade Units.	
For Public Lighting	...	4,921,000	
For Private Lighting	...	59,060,000	
For Traction	...	116,433,000	
For Power	...	59,314,000	
For Public and Private Lighting, Power, and Traction, not separately distinguished	...	12,243,000	
Supplied in bulk to Authorised Distributors	...	39,491,000	
<b>Total Quantity Sold</b>	...	<b>291,462,000</b>	
<b>Used in Works</b>	...	<b>19,350,000</b>	
<b>Total Quantity Supplied</b>	...	<b>310,812,000</b>	
<b>Total Quantity Generated</b>	...	<b>337,346,000</b>	

The difference between the quantities generated and supplied amounts to about 7.9 per cent., and is mainly attributable to losses in transmission.

Particulars were also obtained from companies that generated 36,832,000 units and purchased 29,351,000 units, and the purposes for which they supplied electricity are shown below:—

Electricity Sold:—		Board of Trade Units.	
For Public Lighting	...	2,758,000	
For Private Lighting	...	28,914,000	
For Traction	...	7,078,000	
For Power	...	11,295,000	
Supplied in bulk to Authorised Distributors	...	3,495,000	
<b>Total Quantity Sold</b>	...	<b>53,540,000</b>	
<b>Used in Works</b>	...	<b>2,819,000</b>	
<b>Total Quantity Supplied</b>	...	<b>56,359,000</b>	
<b>Total Quantity Generated and Purchased</b>	...	<b>66,183,000</b>	

The transmission and other losses shown in this group amounted to 14.8 per cent. of the electricity generated and purchased.

Particulars as to the purposes for which electricity was supplied were not obtained from companies that generated 170,877,000 units (or nearly 31.4 per cent. of the total quantity generated by companies) and purchased 3,073,000 units.

A summary of the particulars furnished in respect of the cost of works of construction, alteration, and repair in connexion with the buildings, engines, machinery, apparatus, mains, &c., executed by the working staff of companies engaged in the generation of electricity in the year of return (covering wages, materials, and establishment charges attributable to the work) is shown below, work given out to contractors not being included:—

Class of Work Done by Employees of Companies.	Construction.	Alteration and Repair.	Total.
<b>A. Generation of Electricity:—</b>	£	£	£
Buildings	34,000	16,000	50,000
Engines, Boilers, &c.	54,000	61,000	115,000
Machinery, Implements, and Tools	38,000	75,000	113,000
Buildings and Machinery, not separately distinguished.	1,000	3,000	4,000
<b>Total—Generating Plant</b>	<b>127,000</b>	<b>155,000</b>	<b>282,000</b>

Class of Work Done by Employees of Companies—continued.	Construction.	Alteration and Repair.	Total.
	£	£	£
<b>B. Distribution of Electricity:—</b>			
Mains of all kinds	252,000	37,000	289,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	82,000	45,000	127,000
Apparatus at Distributing Stations	27,000	14,000	41,000
Mains, Machinery, and Apparatus, not separately distinguished.	8,000	4,000	12,000
<b>Total—Distributing Plant</b>	<b>369,000</b>	<b>100,000</b>	<b>469,000</b>
<b>C. Public Lamps</b>	<b>4,000</b>	<b>20,000</b>	<b>24,000</b>
<b>D. Work, not separately distinguished</b>	—	—	16,000
<b>Total Cost of Work Done</b>	—	—	<b>791,000</b>

*Net Output.*—The net output of the electricity undertakings conducted by companies and covered by the Tables on pages 883 to 886 (whose gross output was valued at £3,182,000) was £1,996,000, that sum representing the total amount by which the selling value of the electricity supplied exceeded the cost of the electricity purchased or used in works and of the fuel and other materials used in the generation of electricity and in the execution of works of construction, alteration, and repair. The actual cost of materials used (including the electricity purchased from public authorities) cannot be stated, but it may be estimated at a sum lying between £1,004,000 and £1,033,000.

The net output per head of persons employed in the censal year was nearly £235.

*Persons Employed.*—The average number of persons employed on the last pay-days in January, April, July, and October, in connexion with electricity undertakings conducted by companies and covered by the Tables on pages 883 to 886, is returned as 8,499, viz., 6,832 wage-earners and 1,667 salaried persons, the total number being distributed by age and sex as follows:—

Males:—		Females:—	
Under 18	457	Under 18	4
Over 18	7,954	Over 18	84

The variation in employment during the censal year is shown in the following statement:—

	Persons Employed on the last Pay-day in			
	January.	April.	July.	October.
Wage-earners	6,787	6,737	6,810	6,993
Salaried Persons	1,639	1,655	1,687	1,688
<b>Total</b>	<b>8,426</b>	<b>8,392</b>	<b>8,497</b>	<b>8,681</b>

*Power.*—The total capacity of the engines at electricity undertakings conducted by companies was returned to the Census Office as 569,405 horse-power, classified as follows:—

	Horse-Power.
<b>Steam Engines:—</b>	
Reciprocating	324,863
Steam Turbines	227,523
<b>Total—Steam Engines</b>	<b>552,386</b>
Internal Combustion Engines (gas, oil, &c.)	8,019
Water Power	9,000
<b>Total</b>	<b>569,405</b>



The capacity of the dynamos at the same works was returned as 380,165 kilowatts, and the quantity of electricity generated was, as already stated, 545,055,000 Board of Trade units, viz. :—

Dynamometers driven by :—	Capacity of Dynamometers.		Quantity of Electricity Generated.	
	Kilowatts.		Board of Trade Units.	
Steam Engines : Reciprocating	205,698		243,205,000	
Steam Turbines	162,230		294,489,000	
Other Power ... ..	12,237		7,361,000	
Total ... ..	380,165		545,055,000	

The quantity of electricity purchased by certain companies from other companies or from local authorities amounted in the aggregate to 32,424,000 units.

(b) PUBLIC AUTHORITIES.

*Output.*—The quantity of electricity generated by local and other public authorities amounted to 887,046,000 Board of Trade units, and the selling value of the electricity supplied to consumers or used in the works was returned as £5,731,000. This sum includes £106,000, the selling value to consumers of electricity purchased from other public authorities or from companies, but, as the purchases from public authorities and from companies are not distinguished, the precise amount of duplication in the value of the output of public authorities cannot be determined. It would appear, however, that the value of the output after allowing for duplication may be estimated as lying between £5,697,000 and £5,731,000.

Public authorities that themselves generated all the electricity which they supplied, and whose output amounted to 780,841,000 units or a little over 88 per cent. of the total output of electricity undertakings operated by public authorities, furnished particulars as to the purposes for which the electricity supplied by them was used, and the details are given in the following statement :—

Electricity Sold :—		Board of Trade Units.	
For Public Lighting	...	49,715,000	
For Private Lighting	...	204,380,000	
For Traction	...	232,451,000	
For Power	...	163,316,000	
For Public and Private Lighting, Power, and Traction, not separately distinguished	...	4,909,000	
Supplied in bulk to Authorised Distributors	...	5,198,000	
Total Quantity Sold	...	659,969,000	
Used in Works	...	51,538,000	
Total Quantity Supplied	...	711,507,000	
Total Quantity Generated	...	780,841,000	

The difference between the quantities generated and supplied amounts to 8.9 per cent., and is mainly due to losses in transmission.

Particulars were also obtained from public authorities that generated 98,347,000 units and purchased 14,185,000 units, and the purposes for which they supplied electricity are shown below :—

Electricity Sold :—		Board of Trade Units.	
For Public Lighting	...	1,994,000	
For Private Lighting	...	5,381,000	
For Traction	...	86,426,000	
For Power	...	6,213,000	
For Public and Private Lighting, not separately distinguished	...	157,000	
Supplied in bulk to Authorised Distributors	...	109,000	
Total Quantity Sold	...	100,280,000	
Used in Works	...	4,873,000	
Total Quantity Supplied	...	105,153,000	
Total Quantity Generated and Purchased	...	112,532,000	

The transmission and other losses shown in this group amounted to 6.6 per cent. of the electricity generated and purchased.

Particulars as to the purposes for which electricity was supplied were not obtained from public authorities that generated 7,858,000 units (or about 0.9 per cent. of the total quantity generated by public authorities) and purchased 20,000 units.

A summary of the particulars furnished in respect of the cost of works of construction, alteration, and repair in connexion with the buildings, engines, machinery, apparatus, mains, &c., executed by the working staff of public authorities engaged in the generation of electricity in the census year (covering wages, materials, and establishment charges attributable to the work) is given below, work given out to contractors not being included :—

Class of Work Done by Employees of Public Authorities.	Construction.	Alteration and Repair.	Total.
	£	£	£
A. Generation of Electricity :—			
Buildings ... ..	26,000	37,000	63,000
Engines, Boilers, &c. ... ..	14,000	144,000	158,000
Machinery, Instruments, and Tools ... ..	69,000	213,000	282,000
Buildings and Machinery, not separately distinguished.	2,000	23,000	25,000
Total—Generating Plant ... ..	111,000	417,000	528,000
B. Distribution of Electricity :—			
Mains of all Kinds ... ..	500,000	113,000	613,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises	74,000	57,000	131,000
Apparatus at Distributing Stations ... ..	19,000	26,000	45,000
Mains and Machinery, not separately distinguished.	55,000	33,000	88,000
Total—Distributing Plant ... ..	648,000	229,000	877,000
C. Public Lamps ... ..	10,000	105,000	115,000
D. Work, not separately distinguished ... ..	—	—	11,000
Total Cost of Work Done ... ..	—	—	1,531,000

*Net Output.*—The net output of the electricity undertakings conducted by public authorities covered by the Tables on pages 887 to 890 (whose gross output was valued at £5,731,000) was £3,592,000, that sum representing the total amount by which the value of the electricity supplied exceeded the cost of the electricity purchased or used in the works and of the fuel and other materials used in the generation of electricity and in the execution of works of construction, alteration, and repair. The actual cost of materials used (including the electricity purchased from companies) cannot be stated, but it may be estimated at a sum lying between £2,105,000 and £2,139,000.

The net output per head of persons employed in the year of return was a little over £254.

*Persons Employed.*—The average number of persons employed on the last pay-days in April, July, and October, 1907, and January, 1908, in connexion with electricity undertakings conducted by public authorities and covered by the Tables on pages 887 to 890 is returned as 14,119, viz., 11,992 wage-earners and 2,127 salaried persons, the total number being distributed by age and sex as follows :—

Males :—		Females :—	
Under 18 ... ..	457	Under 18 ... ..	2
Over 18 ... ..	13,559	Over 18 ... ..	101



The variation in employment during the year of return is shown in the following statement :—

	Persons Employed on the last Pay-day in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
Wage-earners ... ..	11,947	11,755	12,301	11,966
Salaried Persons ... ..	2,106	2,101	2,143	2,157
Total ... ..	14,053	13,856	14,444	14,123

*Power.*—The total capacity of the engines at electricity undertakings conducted by public authorities was returned to the Census Office as 990,669 horse-power, classified as follows :—

	Horse-Power.
Steam Engines :—	
Reciprocating ... ..	788,878
Steam Turbines ... ..	194,608
Total—Steam Engines ... ..	983,486
Internal Combustion Engines (gas, oil, &c.) ... ..	6,509
Water Power ... ..	664
Other Power ... ..	10
Total ... ..	990,669

The capacity of the dynamos at the same works was returned as 640,147 kilowatts, and the quantity of electricity generated was, as already stated, 887,046,000 Board of Trade units, viz. :—

Dynamometers driven by :—	Capacity of	Quantity of
	Dynamos.	Electricity Generated.
	Kilowatts.	Board of Trade Units.
Steam Engines : Reciprocating ... ..	503,554	731,906,000
Steam Turbines ... ..	132,015	149,731,000
Other Power ... ..	4,578	5,409,000
Total ... ..	640,147	887,046,000

The quantity of electricity purchased by certain authorities from companies or from other public authorities amounted in the aggregate to 14,205,000 units.

### Local Authorities—United Kingdom.

*Output.*—The Tables on pages 891 to 912 are based on Returns received from local authorities in the United Kingdom in respect of works of construction, alteration, upkeep, and repair, executed by their own employees in connexion with buildings, roads, streets, sewers, tramways, parks, harbours, waterways, cemeteries, &c. The manufacture of gas and the supply of water and electricity are not included in this part of the Report, or in the Tables referred to, but are dealt with separately in the preceding pages.

The value of the work done does not include the total cost of maintaining the various services, but only the cost of the works specified. Thus, for example, the cost of collection and disposal of house refuse, the cost of disposal of sewage either at outfall works or at a sewage farm, and the cost of scavenging and street watering, are not included. The value stated, in the case of work done, includes wages and cost of materials together with a proportion of the establishment charges. Local authorities in England and Wales were instructed to estimate the establishment charges at 5 per cent. of the cost of wages and materials, that percentage being, in the opinion of the Special Advisory Committee, a fair average charge. In the cases of local authorities in Scotland and Ireland, the estimated charges have been entered by the authorities themselves at the amounts which, in their opinion, might fairly be attributable to the works in question. Interest, sinking funds, and other charges for loans are, however, excluded. Where work was done

by one local authority for another the value of the work was returned by the authority that did the work, not by the authority on whose account it was done.

Work given out to contractors is not included in the Returns, with the exception of contracts for the erection of labourers' cottages and for the maintenance and repair of roads given out by Irish local authorities to farmers, cottagers, and other non-professional contractors.

Separate sets of Tables have been prepared showing the work done and goods made by (a) Urban Authorities; (b) Rural Authorities; and (c) Miscellaneous Authorities.

Under "Urban Authorities" are included the councils of county boroughs, municipal boroughs, towns (Scotland and Ireland), and urban districts, and harbour and dock authorities. "Rural Authorities" include county councils (other than county borough councils), rural district councils, district committees (Scotland), parish councils, land drainage works, boards of conservators, and river and navigation commissioners. "Miscellaneous Authorities" include asylums committees, lunacy boards (Scotland), burial boards, and miscellaneous public health authorities, but do not include boards of guardians. The following statement shows the aggregate output of these different groups of authorities in the principal divisions of the United Kingdom, and is free from duplication :—

Value of Goods Made and Work Done	England and Wales.	Scotland.	Ireland.	United Kingdom.
By Urban Authorities ... ..	£ 11,449,000	£ 1,097,000	£ 579,000	£ 13,125,000
By Rural Authorities ... ..	5,178,000	498,000	726,000	6,402,000
By Miscellaneous Authorities ... ..	450,000	21,000	20,000	491,000
Total ... ..	17,077,000	1,616,000	1,325,000	20,018,000

In addition, the value of the goods made and work done by employees of poor-law authorities, together with the value of the goods made for sale by inmates of workhouses, amounted to £309,000, materials which cost £203,000 being used in the production of this output. Owing to the conditions under which this work is done, it is impossible to state separately the exact number of persons employed in connexion therewith.

*Net Output.*—The cost of the materials used in the execution of the work and the manufacture of the goods covered by the Tables on pages 891 to 912 was £8,080,000, the particulars for the several classes of authorities being as follows :—

Cost of Materials.	England and Wales.	Scotland.	Ireland.	United Kingdom.
Urban Authorities ... ..	£ 4,497,000	£ 417,000	£ 211,000	£ 5,125,000
Rural Authorities ... ..	2,449,000	142,000	149,000	2,740,000
Miscellaneous Authorities ... ..	195,000	9,000	11,000	215,000
Total ... ..	7,141,000	568,000	371,000	8,080,000

The "net output," or difference between the cost of materials and the value of the work done, was thus as follows :—

Net Output.	England and Wales.	Scotland.	Ireland.	United Kingdom.
Urban Authorities ... ..	£ 6,952,000	£ 680,000	£ 368,000	£ 8,000,000
Rural Authorities ... ..	2,729,000	356,000	577,000	3,662,000
Miscellaneous Authorities ... ..	255,000	12,000	9,000	276,000
Total ... ..	9,936,000	1,048,000	954,000	11,938,000

This "net output" represents wages, establishment charges, and some expenditure on team-labour in hauling road-metal to the places where it was required. It differs, accordingly, from the "net output" of building and contracting firms, which contains the element of profit. The "net output" arising from work done and goods made by the employees of poor-law authorities is not included in the above statement; its amount was



£106,000. The cost of materials stated above does not include certain material used in the maintenance of roads in Scotland and Ireland in cases where stone was obtained from quarries owned by the repairing authority or where stones were gathered from the fields of farmers to serve as road metal.

*Persons Employed.*—The average number of persons employed, on the four days for which the numbers were returned, in connexion with the execution or supervision of the works and the manufacture of the goods covered by the Tables on pages 891 to 912 (including in the Irish totals farmers, cottagers, &c., who took contracts for road repairing) is returned as 185,286, viz., 175,645 wage-earners and 9,641 salaried persons. The aggregate numbers employed by the different classes of authorities were as follows:—

Average Number of Persons Employed.	England and Wales.	Scotland.	Ireland.	United Kingdom.
By Urban Authorities ... ..	100,678	9,725	6,091	116,494
By Rural Authorities ... ..	39,203	5,574	20,624	65,401
By Miscellaneous Authorities ... ..	3,120	144	127	3,391
Total ... ..	143,001	15,443	26,842	185,286

It should be noted that a good deal of the work done by employees of local authorities is seasonal and temporary, and it should not be assumed that the figures given above, which show the average numbers actually employed on the four specified days, represent the average numbers employed throughout the twelve months.

*Power.*—The aggregate capacity of the engines employed in connexion with the work shown as output was returned as 197,030 horse-power, viz. :—

Mechanical Power Used	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
By Urban Authorities ... ..	129,895	7,073	15,853	152,821
By Rural Authorities ... ..	40,764	2,293	356	43,413
By Miscellaneous Authorities ... ..	796	—	—	796
Total ... ..	171,455	9,366	16,209	197,030

In the more detailed summaries for the several divisions of the United Kingdom which are contained on pages 853 to 863, particulars are given relating to the principal classes of work done. Among the terms employed in setting forth these particulars the following may be specially noticed:—

“Public Premises” include buildings owned, occupied, or used for the purposes of the powers and duties of the local authority and the administration of justice, and all subsidiary buildings connected therewith. Buildings erected under the Housing of the Working Classes Acts or Private Acts are included with “Private Premises.” Labourers’ cottages erected for district councils in Ireland are included with “Private Premises” when they were erected by farmers and other non-professional contractors and builders working under the supervision of officials of district councils, as if they had been erected by regular employees of the councils.

Under “Highways and Bridges” are included not only works of construction, alteration, upkeep, and repair executed by the regular employees of local authorities, but also contracts given out by local authorities in Ireland to farmers, cottagers, and other non-professional contractors.

Under “Street and Road Lighting” is included the cost of erection of lamp standards, &c., but not the cost of the gas, oil, or electricity for lighting, or any charges already included in the Tables relating to gas and electricity undertakings.

Under “Waterworks,” charges for maintenance are included only in the case of those authorities that supplied water free.

Under “Goods Made,” is included the selling value of goods made for sale or for the use of departments of the local authority and not included in the value of the work done by those departments; in the latter case the value stated is the amount charged against the receiving department and may generally be taken to be the cost of manufacture.

### Local Authorities—England and Wales.

*Output.*—The following statement gives a summary of the output of the different groups of local authorities in England and Wales, as defined in the preceding general statement for the United Kingdom, and is free from duplication. The period covered by the Returns was generally the twelve months ended 31st March, 1908.

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Work Done on:—	£	£	£	£
Buildings:—				
Private Premises (Residential, Trade, or Business) ... ..	114,000	262,000	6,000	382,000
Public Premises ... ..	486,000	16,000	279,000	781,000
Total—Buildings ... ..	600,000	278,000	285,000	1,163,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains) ... ..	5,988,000	3,516,000	3,000	9,507,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings) ... ..	252,000	6,000	—	258,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains) ... ..	1,364,000	503,000	99,000	1,966,000
Tunnels and Subways ... ..	4,000	13,000	—	17,000
Public Conveniences ... ..	61,000	1,000	—	62,000
Tramways and Light Railways:—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c. ... ..	661,000	209,000	—	870,000
Tramcars ... ..	432,000	157,000	—	589,000
Total—Tramways and Light Railways ... ..	1,093,000	366,000	—	1,459,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces ... ..	455,000	18,000	1,000	474,000
Harbours and Docks:—				
Harbours, Wharves, Piers, and Jetties ... ..	243,000	—	—	243,000
Docks (Wet and Dry), including Dock Railways ... ..	648,000	—	—	648,000
Harbours, Wharves, and Docks (not separately distinguished) ... ..	87,000	—	—	87,000
Total—Harbours and Docks ... ..	978,000	—	—	978,000
River and Sea Walls, Embankments, and Defences ... ..	91,000	32,000	1,000	124,000
Canals and Waterways ... ..	75,000	279,000	—	354,000
Ferries and Landing Stages ... ..	89,000	28,000	—	117,000
Land Drainage Works (Sluices, &c.) ... ..	2,000	62,000	—	64,000
Cemeteries ... ..	194,000	5,000	1,000	200,000
Waterworks ... ..	7,000	10,000	—	17,000
Telephonic Lines and Works ... ..	5,000	—	—	5,000
Repairs to Plant, Furniture, Carts, Harness, &c. ... ..	66,000	17,000	—	83,000
Shoeing Horses ... ..	—	9,000	—	9,000
Printing and Bookbinding ... ..	3,000	4,000	—	7,000
Other Work ... ..	3,000	—	—	3,000
Total Value of Work Done ... ..	11,330,000	5,147,000	390,000	16,867,000
Goods Made, and not included under any of the foregoing headings:—				
Road-metal, Concrete, Tar-macadam, &c. ... ..	58,000	12,000	—	70,000
Clothing ... ..	—	—	37,000	37,000
Manures ... ..	20,000	—	—	20,000
Grease from Sewage ... ..	19,000	—	—	19,000
Furniture ... ..	—	15,000	3,000	18,000
Bread ... ..	—	—	14,000	14,000
Mortar ... ..	12,000	—	—	12,000
Ice ... ..	5,000	—	—	5,000
Other Products ... ..	5,000	4,000	6,000	15,000
Total Value of Goods Made ... ..	119,000	31,000	60,000	210,000
Total Value of Work Done and Goods Made ... ..	11,449,000	5,178,000	450,000	17,077,000



The great bulk of the work done by employees of rural authorities, as shown in the foregoing statement, was done by employees of county councils, rural district councils, and river commissioners.

The great majority of parish councils do not employ workpeople of their own, but give out contracts to local tradespeople when works of repair, &c., have to be done. The total value of the work done by the direct employees of parish councils was returned at about £9,000, of which £4,000 was in respect of cemeteries, £2,000 in respect of foot-paths, and £2,000 in respect of open spaces. The cost of the materials used was under £2,000, and the number of persons returned as employed was 331. The regular employees of parish councils were chiefly engaged in the upkeep of cemeteries, and it is probable that the whole of their time was not given to actual works of maintenance. Most of the other persons employed were only engaged for short periods, and it is probable that some work done by casual labour was not returned to the Census Office; its amount, however, cannot have been great.

The total value of the work done by employees of land drainage authorities (other than county and rural district councils) was £94,000, and the cost of materials used £22,000. The number of persons returned as employed was 1,869, and the greater part of the expenditure consisted in annual salaries to dike-reeves and other officials responsible for the maintenance of the drains, sluices, &c., in the districts under their supervision, and in the wages of the casual labourers employed by them as occasion required. Those officials did not devote their whole time to this work of supervision.

The work done by employees of boards of guardians consisted either of repairs to buildings, or of making bread, clothing, boots and shoes, &c., for consumption or use in workhouses. Further, the inmates of workhouses were partially employed in stone-breaking, wood-chopping, &c., the road-metal, firewood, &c., being sold; they also sometimes assisted the paid employees in the work above mentioned, while paid employees were engaged to superintend and instruct the inmates in their tasks. As the information at the disposal of the Census Office is not sufficient to show the value of the work done and goods made in relation to the number of persons employed, the particulars relating to such work and manufacture have not been included in the Tables or in the statement on page 853. They are, however, summarised below, repair work and goods made for use or consumption in workhouses having been excluded in those cases in which the paid employees were assisted by inmates, as in such cases there was no satisfactory basis for estimating values:—

	Value. £
Work Done on Buildings:—	
Private Premises, Repairs	1,000
Public Premises, Repairs	90,000
Total—Buildings	91,000
Work Done on Highways and Bridges	3,000
Repairs to Plant	3,000
Total—Value of Work Done	97,000
Goods Made, and not included under any of the foregoing headings:—	
Firewood	75,000
Road-metal	25,000
Bread	46,000
Clothing and Boots and Shoes, made and repaired	15,000
Other Products	5,000
Total Value of Goods Made	166,000
Total Value of Work Done and Goods Made	263,000

The cost of the materials used in connexion with the execution of the work and the manufacture of the goods specified above was £173,000.

*Net Output.*—The cost of materials used in the execution of the work and the manufacture of the goods covered by the Tables on pages 891 to 898 was £7,141,000, the particulars for the several classes of authorities being as follows:—

	Cost of Materials Used. £	Net Output. £
Urban Authorities	4,497,000	6,952,000
Rural Authorities	2,449,000	2,729,000
Miscellaneous Authorities	195,000	255,000
Total	7,141,000	9,936,000

The net output, or difference between the cost of materials used and value of output, represents wages and establishment charges, together, in the case of rural authorities, with an allowance for the cost of team-labour in hauling road-metal to the places where it was required. It differs accordingly from the net output of building and contracting firms, which contains the element of profit. The net output arising from work done and goods made in connexion with workhouses is not included in the above statement; its amount was £90,000.

The net output per head of persons employed in the year of return was a little over £69.

*Persons Employed.*—The average number of persons employed on the last pay-days in April, July, and October, 1907, and January, 1908, in connexion with the execution or supervision of the works and the manufacture of the goods covered by the Tables on pages 891 to 898 was 143,001, viz., 134,928 wage-earners and 8,073 salaried persons. The particulars furnished concerning the several classes of local authorities are as follows:—

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Wage-earners	94,921	37,034	2,973	134,928
Salaried Persons	5,757	2,169	147	8,073
Males:—				
Under 18	2,007	123	32	2,162
Over 18	98,195	39,031	2,908	140,134
Females:—				
Under 18	9	7	—	16
Over 18	467	42	180	689

It should be noted that a good deal of the work done by the employees of local authorities is seasonal and temporary, and it should not be assumed that the figure resulting from taking the average of the numbers employed on the four specified days necessarily represents the average number employed throughout the twelve months.

The variation in employment during the year of return is shown in the following statement, in which the various classes of local authorities are distinguished:—

	Persons Employed on the last Pay-day in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
Wage-earners employed by:—				
Urban Authorities	94,142	94,856	94,862	95,822
Rural Authorities	36,498	33,965	37,820	39,854
Miscellaneous Authorities	3,009	3,033	3,053	2,799
Total—Wage-earners	133,649	131,854	135,735	138,475
Salaried Persons Employed by:—				
Urban Authorities	5,765	5,764	5,749	5,751
Rural Authorities	2,182	2,162	2,167	2,164
Miscellaneous Authorities	149	145	146	147
Total—Salaried Persons	8,096	8,071	8,062	8,062
Total—Wage-earners and Salaried Persons.	141,745	139,925	143,797	146,537



The following details were furnished respecting the numbers of wage-earners employed in certain classes of work on the last pay-days in July, 1907, and in January, 1908 :—

Class of Work.	Urban Authorities.		Rural Authorities.		Miscellaneous Authorities.		Total Number of Wage-earners Employed on last Pay-day in	
	Number Employed on last Pay-day in		Number Employed on last Pay-day in		Number Employed on last Pay-day in			
	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.
Wage-earners engaged in Works of Construction, Maintenance, Alteration, and Repair on :—								
Buildings ... ..	3,872	3,954	1,484	1,435	2,136	1,947	7,492	7,336
Highways, Sewers, &c. ...	64,363	65,840	26,310	33,002	557	534	91,230	99,376
Tramways ... ..	8,125	7,760	2,344	2,140	1	1	10,470	9,901
Parks, &c. ... ..	4,386	4,481	204	188	9	12	4,599	4,681
Harbours, Docks, &c. ...	8,008	7,908	—	—	7	9	8,015	7,917
Canals, Ferries, &c. ...	828	767	884	703	6	1	1,718	1,471
Land Drainage Works ...	111	110	1,927	1,536	12	12	2,050	1,658
Cemeteries ... ..	2,060	2,007	186	171	14	15	2,260	2,193
Telephonic Lines or Works...	41	35	7	7	1	1	49	43
Waterworks ... ..	42	47	56	47	—	—	98	94
Wage-earners engaged in :—								
Quarrying and Dressing Stone	181	190	18	51	—	—	199	241
Preparing Road Metal, Asphalte, &c.	206	157	31	31	—	—	237	188
Making Concrete ... ..	179	175	3	—	—	—	182	175
Making Mortar ... ..	55	54	—	—	—	—	55	54
Making School Furniture ...	—	—	91	111	—	—	91	111
Repairing Carts, &c. ... ..	85	82	—	—	—	—	85	82
Repairing Plant ... ..	163	175	12	9	2	2	177	186
Printing ... ..	11	11	38	38	3	3	52	52
Dredging, Moorings, Sea Defences.	439	398	—	—	—	—	439	398
Workshops and Workyards	83	85	216	214	—	—	299	299
Treating Sewage and Making Artificial Manures.	410	365	—	—	—	—	410	365
Other Work, and Work not separately specified.	1,208	1,221	154	171	285	262	1,647	1,654
Total ... ..	94,856	95,822	33,965	39,854	3,033	2,799	131,854	138,475

*Power.*—The capacity of the engines owned by local authorities in England and Wales and used in connexion with the work returned as the output of their employees is shown in the following statement :—

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
Authorities using Power :—	£		Horse-Power.
Urban Authorities ... ..	10,455,000	90,971	129,895
Rural Authorities ... ..	4,051,000	26,972	40,764
Miscellaneous Authorities ...	205,000	1,198	796
Total—Authorities using Power	14,711,000	119,141	171,455
Authorities not using Power :—			
Urban Authorities ... ..	994,000	9,707	—
Rural Authorities ... ..	1,127,000	12,231	—
Miscellaneous Authorities ...	245,000	1,922	—
Total—Authorities not using Power	2,366,000	23,860	—
Total ... ..	17,077,000	143,001	171,455

Classified according to kinds of power, the particulars were :—

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Steam Engines :—	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Road Locomotives, Rollers, &c....	11,518	6,686	66	18,270
Steam Turbines ... ..	717	128	—	845
Other Steam Engines ... ..	89,212	29,075	601	118,888
Total—Steam Engines...	101,447	35,889	667	138,003
Internal Combustion Engines (gas, oil, &c.)	18,965	4,802	53	23,820
Water Power ... ..	5,424	38	—	5,462
Electric Motors (so far as returned) ...	4,059	35	76	4,170
Total ... ..	129,895	40,764	796	171,455

Particulars as to the capacity of dynamos owned and as to the quantity of electricity generated or purchased in connexion with the works included as output were not required to be stated.

#### Local Authorities—Scotland.

*Output.*—The following statement gives a summary of the output of the different groups of local authorities in Scotland, as defined in the preceding general statement for the United Kingdom, and is free from duplication. The period covered by the Returns was generally the twelve months ended 15th May, 1908.

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
	£	£	£	£
Work Done on :—				
Buildings :—				
Private Premises (Residential, Trade, or Business).	7,000	—	3,000	10,000
Public Premises ... ..	8,000	9,000	15,000	32,000
Total—Buildings ... ..	15,000	9,000	18,000	42,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	356,000	435,000	1,000	792,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	49,000	2,000	—	51,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	76,000	4,000	—	80,000
Public Conveniences ... ..	3,000	—	—	3,000
Tramways and Light Railways :—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	174,000	—	—	174,000
Tramcars ... ..	54,000	—	—	54,000
Total—Tramways and Light Railways	228,000	—	—	228,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	78,000	1,000	1,000	80,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties ...	71,000	—	—	71,000
Docks (Wet and Dry), including Dock Railways.	25,000	—	—	25,000
Harbours, Wharves, and Docks (not separately distinguished).	110,000	—	—	110,000
Total—Harbours and Docks ... ..	206,000	—	—	206,000



	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Work Done on :—	£	£	£	£
River and Sea Walls, Embankments, and Defences.	7,000	—	—	7,000
Canals and Waterways ... ..	52,000	—	—	52,000
Ferries and Landing Stages ... ..	8,000	—	—	8,000
Cemeteries ... ..	9,000	10,000	—	19,000
Waterworks ... ..	—	1,000	—	1,000
Repairs to Plant ... ..	2,000	—	—	2,000
Other Work ... ..	1,000	1,000	—	2,000
Total Value of Work Done ... ..	1,090,000	463,000	20,000	1,573,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..	3,000	33,000	—	36,000
Refuse from Slaughter Houses ... ..	3,000	2,000	—	5,000
Manures ... ..	1,000	—	—	1,000
Clothing ... ..	—	—	1,000	1,000
Total Value of Goods Made ... ..	7,000	35,000	1,000	43,000
Total Value of Work Done and Goods Made.	1,097,000	498,000	21,000	1,616,000

All parish councils, whether urban or rural, are included with rural authorities in the above Table. The work done by employees of parish councils was valued at £21,000; of this, £8,000 was in respect of repairs to buildings and £11,000 in respect of the upkeep of cemeteries. The great majority of rural parish councils do not employ workpeople of their own, but give out contracts to local tradespeople when works of repair, &c., have to be done.

In addition, firewood valued at £6,000 and other goods valued at £1,000 were made for sale by the inmates of poor-houses administered by parish councils, and the cost of the materials used was £5,000. These sums are not included in the Tables or in the above statement.

*Net Output.*—The cost of the materials used by the employees of local authorities in the execution of the work and the manufacture of the goods covered by the Tables on pages 899 to 905 was £568,000, the details for the several classes of authorities being as follows :—

	Cost of Materials Used.	Net Output.
	£	£
Urban Authorities... ..	417,000	680,000
Rural Authorities ... ..	142,000	356,000
Miscellaneous Authorities ... ..	9,000	12,000
Total ... ..	568,000	1,048,000

The net output, or the difference between the cost of materials and the value of the work done, represents wages and establishment charges, together, in the case of rural authorities, with the cost of team-labour in hauling road-metal to the places where it was required. It differs, accordingly, from the net output of building and contracting firms, which contains the element of profit. The net output arising from goods made in connexion with poor-houses is not included in the above statement; its amount was £2,000. In the case of rural authorities, road-metal is generally quarried by the employees of the county council or district committee from quarries owned or rented by the authority, and in such cases the cost of the road-metal is not included in the cost of materials, but the rent of the quarries or the royalty on the stone is defrayed out of net output.

The net output per head of persons employed in the year of return was about £68.

*Persons Employed.*—The average number of persons employed on the last pay-days in July and October, 1907, and January and April, 1908, in connexion with the execution or supervision of the work and the manufacture of the goods covered by the Tables on pages 899 to 905 is returned as 15,443, viz., 14,504 wage-earners and 939 salaried persons. The particulars furnished concerning the several classes of local authorities are as follows :—

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Wage-earners ... ..	9,098	5,269	137	14,504
Salaried Persons ... ..	627	305	7	939
Males :—				
Under 18 ... ..	128	25	—	153
Over 18 ... ..	9,518	5,544	143	15,205
Females :—				
Under 18 ... ..	3	—	—	3
Over 18 ... ..	76	5	1	82

It should be noted that, especially in the case of rural authorities, a good deal of the labour employed is seasonal and temporary, and it should not be assumed that the figure resulting from taking the average of the numbers employed on the four specified days necessarily represents the average number employed throughout the twelve months.

The variation in employment during the censal year is shown in the following statement, in which the different classes of authorities are distinguished :—

	Employed on the last Pay-day in			
	July, 1907.	October, 1907.	January, 1908.	April, 1908.
Wage-earners employed by :—				
Urban Authorities ... ..	9,330	9,107	9,115	8,840
Rural Authorities ... ..	5,558	5,351	5,029	5,139
Miscellaneous Authorities ... ..	143	136	131	137
Total—Wage-earners ... ..	15,031	14,594	14,275	14,116
Salaried Persons employed by :—				
Urban Authorities ... ..	622	629	626	631
Rural Authorities ... ..	304	302	307	308
Miscellaneous Authorities ... ..	7	7	7	7
Total—Salaried Persons... ..	933	938	940	946
Total—Wage-earners and Salaried Persons.	15,964	15,532	15,215	15,062

The following details were furnished respecting the numbers of wage-earners employed in certain classes of work on the last pay-days in July, 1907, and in January, 1908 :—

Class of Work.	Urban Authorities.		Rural Authorities.		Miscellaneous Authorities.		Total Number of Wage-earners Employed on last Pay-day in	
	Number Employed on last Pay-day in		Number Employed on last Pay-day in		Number Employed on last Pay-day in			
	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.
Wage-earners engaged in Works of Construction, Maintenance, Alteration, and Repair on :—								
Buildings ... ..	110	127	31	31	125	113	266	271
Highways, Sewers, &c. ... ..	3,903	3,851	5,156	4,686	8	8	9,067	8,545
Tramways ... ..	1,794	1,397	—	—	—	—	1,794	1,397
Parks, &c. ... ..	665	1,011	10	8	5	5	680	1,024
Harbours, Docks, Canals, Ferries, &c. ... ..	2,602	2,521	6	2	—	—	2,608	2,523
Land Drainage Works ... ..	4	4	2	1	—	—	6	5
Cemeteries ... ..	125	119	221	183	—	—	346	302
Wage-earners engaged in :—								
Preparing Road Metal, &c. ... ..	19	24	120	108	—	—	139	132
Other Work ... ..	108	61	12	10	5	5	125	73
Total ... ..	9,330	9,115	5,558	5,029	143	131	15,031	14,275



*Power.*—The capacity of the engines owned by local authorities in Scotland and used in connexion with the work returned as the output of their employees is shown in the following statement :—

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
<b>Authorities using Power :—</b>			
Urban Authorities ... ..	623,000	5,520	7,073
Rural Authorities ... ..	446,000	4,716	2,293
Miscellaneous Authorities ... ..	—	—	—
<b>Total—Authorities using Power ... ..</b>	<b>1,069,000</b>	<b>10,236</b>	<b>9,366</b>
<b>Authorities not using Power :—</b>			
Urban Authorities ... ..	474,000	4,205	—
Rural Authorities ... ..	52,000	858	—
Miscellaneous Authorities ... ..	21,000	144	—
<b>Total—Authorities not using Power ... ..</b>	<b>547,000</b>	<b>5,207</b>	<b>—</b>
<b>Total ... ..</b>	<b>1,616,000</b>	<b>15,443</b>	<b>9,366</b>

Classified according to kinds of power, the particulars were :—

	Urban Authorities.	Rural Authorities.	Total.
	Horse-Power.	Horse-Power.	Horse-Power.
<b>Steam Engines :—</b>			
Road Locomotives, Rollers, &c. ... ..	963	2,071	3,034
Other Steam Engines ... ..	5,600	187	5,787
<b>Total—Steam Engines ... ..</b>	<b>6,563</b>	<b>2,258</b>	<b>8,821</b>
Internal Combustion Engines (gas, oil, &c.) ... ..	155	35	190
Water Power ... ..	56	—	56
Electric Motors (so far as returned) ... ..	299	—	299
<b>Total ... ..</b>	<b>7,073</b>	<b>2,293</b>	<b>9,366</b>

Particulars as to the capacity of dynamos owned and as to the quantity of electricity generated or purchased in connexion with the works included as output were not required to be stated.

#### Local Authorities—Ireland.

*Output.*—The following statement gives a summary of the output of the different groups of local authorities in Ireland, as defined in the preceding general statement for the United Kingdom, and is free from duplication. The period covered by the Returns was generally the twelve months ended 31st March, 1908.

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
	£	£	£	£
<b>Work Done on :—</b>				
<b>Buildings :—</b>				
Private Premises (Residential, Trade, or Business) ... ..	21,000	4,000	5,000	30,000
Public Premises ... ..	34,000	6,000	11,000	51,000
<b>Total—Buildings ... ..</b>	<b>55,000</b>	<b>10,000</b>	<b>16,000</b>	<b>81,000</b>
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains) ... ..	238,000	675,000	2,000	915,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings) ... ..	12,000	—	—	12,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains) ... ..	59,000	—	—	59,000
Tunnels and Subways ... ..	1,000	—	—	1,000
Public Conveniences ... ..	4,000	—	—	4,000

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
	£	£	£	£
<b>Work Done on :—</b>				
<b>Tramways and Light Railways :—</b>				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c. ... ..	19,000	1,000	—	20,000
Tramcars ... ..	29,000	—	—	29,000
<b>Total—Tramways and Light Railways ... ..</b>	<b>48,000</b>	<b>1,000</b>	<b>—</b>	<b>49,000</b>
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces ... ..	8,000	—	—	8,000
<b>Harbours and Docks :—</b>				
Harbours, Wharves, Piers, and Jetties ... ..	68,000	6,000	—	74,000
Docks (Wet and Dry), including Dock Railways ... ..	3,000	—	—	3,000
Harbours, Wharves, and Docks (not separately distinguished) ... ..	33,000	—	—	33,000
<b>Total—Harbours and Docks ... ..</b>	<b>104,000</b>	<b>6,000</b>	<b>—</b>	<b>110,000</b>
River and Sea Walls, Embankments, and Defences ... ..	1,000	1,000	—	2,000
Canals and Waterways ... ..	22,000	—	—	22,000
Ferries and Landing Stages ... ..	5,000	—	—	5,000
Land Drainage Works, Sluices, &c. ... ..	1,000	—	—	1,000
Cemeteries ... ..	2,000	—	—	2,000
Waterworks ... ..	1,000	—	—	1,000
Reclamation of Waste Land ... ..	5,000	—	—	5,000
Repairs to Plant ... ..	4,000	—	—	4,000
Other Work Done ... ..	1,000	1,000	1,000	3,000
<b>Total Value of Work Done ... ..</b>	<b>571,000</b>	<b>694,000</b>	<b>19,000</b>	<b>1,284,000</b>
<b>Goods Made, and not included under any of the foregoing headings :—</b>				
Road-metal, Concrete, &c. ... ..	7,000	32,000	—	39,000
Clothing and Boots and Shoes ... ..	—	—	1,000	1,000
Slaughter House Refuse and By-products ... ..	1,000	—	—	1,000
<b>Total Value of Goods Made ... ..</b>	<b>8,000</b>	<b>32,000</b>	<b>1,000</b>	<b>41,000</b>
<b>Total Value of Work Done and Goods Made ... ..</b>	<b>579,000</b>	<b>726,000</b>	<b>20,000</b>	<b>1,325,000</b>

In addition, the employees of boards of guardians executed repairs to buildings to the value of £19,000, made bread for consumption in workhouses to the value of £8,000, and made and repaired clothing and boots and shoes to the value of £11,000, while the inmates of workhouses broke road-metal which was sold for £1,000. The total value of this output was £39,000, and the cost of the materials used in connexion therewith was £25,000. These sums are not included in the Tables or in the above statement.

*Net Output.*—The cost of the materials used by the employees of local authorities in the execution of the works and the manufacture of the goods covered by the Tables on pages 906 to 912 was £371,000, the details for the several classes of authorities being as follows :—

	Cost of Materials Used.	Net Output.
	£	£
Urban Authorities ... ..	211,000	368,000
Rural Authorities ... ..	149,000	577,000
Miscellaneous Authorities ... ..	11,000	9,000
<b>Total ... ..</b>	<b>371,000</b>	<b>954,000</b>



The net output, or difference between the cost of materials and the value of the work done, represents wages and establishment charges, and probably some expenditure on team-labour in hauling road-metal to the places where it was required. It differs, accordingly, from the net output of building and contracting firms, which contains the element of profit. The net output arising from work done and goods made in connexion with workhouses is not included in the above statement; its amount was £14,000. The cost of materials stated above does not include the cost of materials used by farmers, cottagers, and other non-professional contractors in carrying out contracts for the maintenance of roads, but in such cases they generally gathered or quarried stones for road-metal from their own fields and the cost would be small.

The net output per head of persons employed by urban authorities was slightly over £60, and the net output per head of employees of all authorities was nearly £36.

*Persons Employed.*—The average number of persons employed on the last pay-days in April, July, and October, 1907, and January, 1908 (including farmers, cottagers, &c., who took contracts for road-repairing) in connexion with the execution or supervision of the works and the manufacture of the goods covered by the Tables on pages 906 to 912 is returned as 26,842, viz., 26,213 wage-earners and 629 salaried persons. The particulars furnished concerning the several classes of local authorities are as follows:—

	Urban Authorities.	Rural Authorities.	Miscellaneous Authorities.	Total.
Wage-earners ... ..	5,801	20,293	119	26,213
Salaried Persons ... ..	290	331	8	629
<b>Males:—</b>				
Under 18 ... ..	88	103	—	191
Over 18 ... ..	5,987	20,476	127	26,590
<b>Females:—</b>				
Under 18 ... ..	—	—	—	—
Over 18 ... ..	16	45	—	61

In the cases of persons employed by rural authorities, the persons directly employed by such authorities were returned to the Census Office, together with the number of farmers and similar persons to whom road-contracts were given out, but not the persons employed by such sub-contractors. Such road-maintenance contracts were individually small in amount and only employed the contractors during a comparatively small portion of the year. Consequently the figures shown above should not be taken as recording the average number of persons employed throughout the year by rural authorities.

The following statement affords some indication of the seasonal variation in the employment of persons engaged by urban and miscellaneous authorities during the censal year:—

	Persons Employed on the last Pay-day in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
<b>Wage-earners employed by:—</b>				
Urban Authorities ... ..	5,861	5,698	5,841	5,803
Miscellaneous Authorities ... ..	117	116	111	130
<b>Total—Wage-earners ... ..</b>	<b>5,978</b>	<b>5,814</b>	<b>5,952</b>	<b>5,933</b>
<b>Salaried Persons employed by:—</b>				
Urban Authorities ... ..	291	290	290	290
Miscellaneous Authorities ... ..	9	8	8	9
<b>Total—Salaried Persons ... ..</b>	<b>300</b>	<b>298</b>	<b>298</b>	<b>299</b>
<b>Total—Wage-earners and Salaried Persons.</b>	<b>6,278</b>	<b>6,112</b>	<b>6,250</b>	<b>6,232</b>

Corresponding figures for employees of rural authorities are not given, as the inclusion of small non-professional road-contractors makes it impossible to give figures which are really comparable. Even in the case of the other authorities, moreover, allowance should be made for the temporary and seasonal character of part of the work done.

The following details were furnished respecting the numbers of wage-earners employed in certain classes of work on the last pay-days in July, 1907, and in January, 1908:—

Class of Work.	Urban Authorities.		Rural Authorities.		Miscellaneous Authorities.		Total Number of Wage-earners Employed on last Pay-day in	
	Number Employed on last Pay-day in		Number Employed on last Pay-day in		Number Employed on last Pay-day in			
	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.	July, 1907.	January, 1908.
<b>Wage-earners engaged in Works of Construction, Maintenance, Alteration, and Repair on:—</b>								
Buildings ... ..	222	307	171	139	98	112	491	558
Highways, Sewers, &c. ... ..	3,626	3,683	19,400	20,434	4	4	23,030	24,121
Tramways ... ..	170	192	—	—	—	—	170	192
Parks, &c. ... ..	93	75	—	—	—	—	93	75
Harbours, Docks, &c. ... ..	1,197	1,198	26	21	—	—	1,223	1,219
Canals, Ferries, &c. ... ..	138	127	—	—	—	—	138	127
Land Drainage Works ... ..	—	—	30	30	—	—	30	30
Cemeteries ... ..	38	45	36	48	—	—	74	93
<b>Wage-earners engaged in:—</b>								
Preparing Road Metal, &c. ... ..	26	28	258	8	—	—	284	36
Making Concrete ... ..	66	12	—	—	—	—	66	12
Repairing Plant ... ..	112	119	—	—	6	6	118	125
Other Work ... ..	10	17	52	25	8	8	70	50
<b>Total ... ..</b>	<b>5,698</b>	<b>5,803</b>	<b>19,973</b>	<b>20,705</b>	<b>116</b>	<b>130</b>	<b>25,787</b>	<b>26,638</b>

*Power.*—The capacity of the engines owned by local authorities in Ireland and used in connexion with the work returned as the output of their employees is shown in the following statement:—

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
<b>Authorities using Power:—</b>	£		Horse-Power.
Urban Authorities ... ..	524,000	5,358	15,853
Rural Authorities ... ..	435,000	11,751	356
Miscellaneous Authorities ... ..	—	—	—
<b>Total—Authorities using Power ... ..</b>	<b>959,000</b>	<b>17,109</b>	<b>16,209</b>
<b>Authorities not using Power:—</b>			
Urban Authorities ... ..	55,000	733	—
Rural Authorities ... ..	291,000	8,873	—
Miscellaneous Authorities ... ..	20,000	127	—
<b>Total—Authorities not using Power ... ..</b>	<b>366,000</b>	<b>9,733</b>	<b>—</b>
<b>Total ... ..</b>	<b>1,325,000</b>	<b>26,842</b>	<b>16,209</b>

Classified according to kinds of power, the particulars were:—

	Urban Authorities.	Rural Authorities.	Total.
<b>Steam Engines:—</b>	Horse-Power.	Horse-Power.	Horse-Power.
Road Locomotives, Rollers, &c. ... ..	436	324	760
Steam Turbines ... ..	880	—	880
Other Steam Engines ... ..	14,190	23	14,213
<b>Total—Steam Engines ... ..</b>	<b>15,506</b>	<b>347</b>	<b>15,853</b>
Internal Combustion Engines (gas, oil, &c.) ... ..	192	9	201
Water Power ... ..	155	—	155
<b>Total ... ..</b>	<b>15,853</b>	<b>356</b>	<b>16,209</b>

No electric motors were stated to be owned. Particulars of electricity purchased were not required to be stated.



### Canal, Dock, Harbour, and Similar Companies.

*Output.*—The Tables on pages 913 and 914 are based on Returns from canal, dock, harbour, and similar companies. For the purposes of the Census of Production such companies were required to make Returns of the value of all goods manufactured and of the work done by their employees in the construction, maintenance, and repair of canals, docks, harbours, wharves, river and sea walls, &c. The actual administration of the canals, docks, harbours, &c., was not covered by the Census. Similar work given out to contractors by these companies is not included here, and the value of the goods made and work done, which the companies were required to state in their Returns, was a sum representing the actual cost of manufacturing the goods or of executing the repairs or other work done, *i.e.*, a sum made up of wages, cost of materials used, and a proportion of the establishment charges. It differs, accordingly, from the value of the output of manufacturers, contractors, &c., which is naturally on a profit basis. Where canals, docks, harbours, &c. were controlled by local public authorities the Returns relating to the goods made and work done are not included in this part of the Report but in pages 853 to 863. The Returns relating to canals, docks, &c., owned by railway companies are included in Section III., pages 165 to 168.

The work done in the censal year by the employees of canal, dock, harbour, and similar companies may be summarised as follows :—

	Works of New Construction.	Works of Maintenance and Repair.	Total.
Work Done on :—	£	£	£
Canals and Waterways ... ..	57,000	295,000	352,000
Docks, Wet and Dry ... ..	51,000	166,000	217,000
Canals and Docks, not separately distinguished ... ..	—	28,000	28,000
Harbours, Wharves, Piers, and Jetties ... ..	39,000	48,000	87,000
River and Sea Walls, Embankments, and Defences ... ..	3,000	13,000	16,000
Warehouses, Offices, &c. ... ..	8,000	16,000	24,000
Railways :—			
Permanent Way ... ..	7,000	17,000	24,000
Rolling Stock ... ..	—	9,000	9,000
Boats, Barges, and Lighters ... ..	4,000	42,000	46,000
Tugs and other Vessels ... ..	—	25,000	25,000
Machinery ... ..	—	23,000	23,000
Other Work Done and Goods Made ... ..	3,000	8,000	11,000
Total Value ... ..	172,000	690,000	862,000

The gross tonnage of boats, barges, and lighters built was 860 tons.

*Net Output.*—The cost of the materials used by the employees of canal, dock, harbour, and similar companies in the execution of the work and the manufacture of the goods covered by the Tables on pages 913 and 914 was £282,000. The difference—£580,000—between this sum and the value of the output represents wages and establishment charges, and is, therefore, not strictly comparable with the net output of contractors and manufacturing firms, which includes the element of profit.

The net output per head of persons employed in the censal year was a little over £79.

*Persons Employed.*—The average number of persons employed on the last Wednesdays in January, April, July, and October, by canal, dock, harbour, and similar companies, in the manufacture of the goods and the execution of the work included as their output, was 7,347, *viz.*, 6,986 wage-earners and 361 salaried persons, the total number being distributed according to age and sex as follows :—

Males :—		Females :—	
Under 18 ... ..	309	Under 18 ... ..	None.
Over 18 ... ..	7,032	Over 18 ... ..	6

Separate particulars were also asked respecting the persons employed on the Sunday preceding the last Wednesday in the months specified above, and the average number so employed was returned as 824, *viz.*, 808 wage-earners and 16 salaried persons, of whom 17 were males under 18 and 807 males over 18.

From these figures it would appear that on the average from 11 to 12 per cent. of the wage-earners and about 4 per cent. of the salaried persons were employed on Sundays.

The variation in employment during the censal year is shown in the following statement :—

	Persons Employed on the last Wednesday in			
	January.	April.	July.	October.
Wage-earners ... ..	6,792	7,137	6,974	7,044
Salaried Persons ... ..	360	363	353	365
Total ... ..	7,152	7,500	7,327	7,409

*Power.*—The particulars furnished with regard to power are summarised below, electricity purchased not being included :—

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
Canal, Dock, Harbour, and Similar Companies using Power in connexion with Work shown as Output.	£ 791,000	6,667	Horse-Power. 19,521
Canal, Dock, Harbour, and Similar Companies not so using Power.	71,000	680	—
Total ... ..	862,000	7,347	19,521

Classed according to kinds of power the particulars are :—

	Horse-Power.
Steam Engines, Reciprocating ... ..	17,183
Internal Combustion Engines (gas, oil, &c.) ... ..	2,293
Water Power ... ..	45
Total ... ..	19,521

The companies making Returns also stated that the capacity of the dynamos owned by them and driven by their own engines was 938 kilowatts, *viz.*, dynamos driven by reciprocating steam engines, 418 kilowatts, and dynamos driven by other engines, 520 kilowatts.

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion), about 7 per cent. of the engine-power belonging to canal, harbour, and other companies, was required for driving dynamos for the production of electric power and light in connexion with the work shown as output.

The companies were also required to state the quantity of electricity generated by their own dynamos, and the following statement summarises the information so far as particulars were furnished :—

Dynamoes driven by	Total Capacity of Dynamoes.	Electricity Generated, so far as particulars were returned.	
		Capacity of Dynamoes.	Electricity Generated.
	Kilowatts.	Kilowatts.	Board of Trade Units.
Steam Engines, Reciprocating ... ..	418	396	1,002,000
Other Power ... ..	520	520	637,000
Total ... ..	938	916	1,639,000

About 941,000 Board of Trade units of electricity were purchased by companies for power and lighting purposes.



### Tramway and Light Railway Companies.

*Output.*—The Tables on pages 915 to 917 are based on Returns received from tramway and light railway companies. For the purposes of the Census of Production such companies were required to make Returns of the value of all goods manufactured and of the work done by their employees in the construction, maintenance, and repair of permanent way, works, buildings, plant, rolling stock, &c. The actual operations of transport were not covered by the Census. The value of the goods made and work done, which the companies were required to state in their Returns, was a sum representing the actual cost of manufacturing the goods or of executing the repairs or other work done, *i.e.*, a sum made up of wages, cost of materials, and a proportion of the establishment charges. It differs, therefore, from the value of the output of manufacturers, contractors, &c., which is naturally on a profit basis. Where tramways and light railways were operated by local public authorities the Returns relating to the goods made and work done are not included in this part of the Report but on pages 853 to 863.

The work done in the year of return by tramway and light railway companies may be summarised as follows :—

#### I.—Permanent Way Department (New Works, Maintenance, and Repairs) :—

	Value. £
Permanent Way ... ..	229,000
Electrical or other Mechanical Equipment ... ..	75,000
Stations and Buildings ... ..	4,000

Total—Permanent Way Department ... 308,000

#### II.—Rolling Stock, &c. :—

Engines : Construction and Repairs ... ..	14,000
Cars for Passengers (including Mechanical Equipment) : Construction and Repairs ... ..	271,000
Omnibuses and other Miscellaneous Vehicles for Passengers : Construction and Repairs ... ..	5,000
Wagons and other Vehicles for Goods : Construction and Repairs ... ..	3,000
Buildings (not returned under Head I.): New Works, Repairs, and Maintenance... ..	9,000

Total—Rolling Stock, &c. ... 302,000

#### III.—Other Productive Departments :—

Buildings (not returned under other Heads) : New Works, Repairs, and Maintenance ... ..	8,000
Machinery and Plant (Workshop) : Construction, Repairs, and Maintenance... ..	7,000
Clothing ... ..	3,000
Printing ... ..	3,000
Other Goods Manufactured or Work Done... ..	6,000

Total—Other Productive Departments ... 27,000

The total value of the goods made and work done, included in the foregoing statement, amounts to £637,000.

Companies were also asked to furnish a voluntary statement as to the number of new cars and wagons built by them in the year of Return. In response to this request companies whose output was valued at £136,000 stated that they completed in the year of return 31 passenger cars and 16 goods wagons; companies whose output was valued at £460,000 stated that they completed no cars or wagons; and companies whose output was valued at £41,000 did not furnish any information. The companies that stated that they completed no cars or wagons in the year of return expended £201,000 in repairs.

*Net Output.*—The cost of the materials used by the employees of tramway and light railway companies in the execution of the work and the manufacture of the goods covered by the Tables on pages 915 to 917 was £330,000. The difference—£307,000—between this sum and the value of the output represents wages and establishment charges, and is, therefore, not strictly comparable with the “net output” of contractors and manufacturing firms, which includes the element of profit.

The net output per head of persons employed in the censal year was over £68.

*Persons Employed.*—The average number of persons employed by tramway and light railway companies, on the last Wednesdays in January, April, July, and October, in the manufacture of the goods and the execution of the work included as their output, was 4,497, *viz.*, 4,223 wage-earners and 274 salaried persons, the total number being distributed according to age and sex as follows :—

Males :—		Females :—	
Under 18 ... ..	213	Under 18 ... ..	1
Over 18 ... ..	4,268	Over 18... ..	15

Separate particulars were also asked for respecting the persons employed on the Sunday preceding the last Wednesday in the months specified above, and the average number so employed is returned as 1,010, *viz.*, 951 wage-earners and 59 salaried persons, the total number being distributed according to age and sex as follows :—

Males :—		Females :—	
Under 18 .... ..	38	Under 18 ... ..	None
Over 18 ... ..	970	Over 18 ... ..	2

From these figures it would appear that over 22·5 per cent. of the wage-earners and over 21·5 per cent. of the salaried persons were employed on Sundays, but it is probable that in the case of the smaller tramways and light railways the salaried persons returned as at work on Sundays were not solely engaged in connexion with the supervision of works of construction, maintenance, and repair.

The variation in employment during the censal year is shown in the following statement :—

	Persons employed on the last Wednesday in			
	January.	April.	July.	October.
Wage-earners ... ..	3,980	4,574	4,267	4,072
Salaried Persons ... ..	267	277	275	277
Total ... ..	4,247	4,851	4,542	4,349

*Power.*—Tramway and light railway companies were asked to state the power used by them for traction and other purposes, and in reply they reported that the total capacity of their engines was 45,779 horse-power. Companies so using mechanical power expended £604,000 on construction and repair work executed by their own workpeople on their permanent way, works, buildings, rolling stock, &c., and employed on the average 4,273 persons on such work. Companies not using mechanical power expended £33,000 and employed on the average 224 persons.

Classed according to kinds of power, the particulars are :—

	Horse-Power.
Steam Engines :—	
Reciprocating ... ..	41,547
Steam Turbines ... ..	1,340
Total—Steam Engines ... ..	42,887
Internal Combustion Engines (gas, oil, &c.) ... ..	2,662
Water Power ... ..	230
Total ... ..	45,779

Companies using dynamos driven by their own engines were required to state their capacity, and the information furnished is summarised below :—

	Kilowatts.
Capacity of Dynamos driven by :—	
Steam Engines : Reciprocating ... ..	25,510
Steam Turbines ... ..	1,000
Other Power ... ..	1,653
Total ... ..	28,163

The capacity of those dynamos should not, of course, be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing for loss of energy in conversion) between 90 and 95 per cent. of



the engine-power belonging to tramway and light railway companies was required for driving dynamos for the production of electrical energy, mainly for traction purposes.

The amount of electricity generated by those dynamos was returned as 55,409,000 Board of Trade units, viz., 48,181,000 units by dynamos driven by reciprocating steam engines, 4,849,000 units by dynamos driven by steam turbines, and 2,379,000 units by dynamos driven by other power; and in addition 49,026,000 units were purchased. The purposes for which the electricity was used were as follows:—

Electricity used:—	Board of Trade Units.
For Traction (including carriage lighting) ...	77,761,000
For Other Lighting ... ..	2,044,000
For Power... ..	1,438,000
In Electric Works... ..	2,025,000
For uses not separately distinguished ... ..	21,167,000
<b>Total ... ..</b>	<b>104,435,000</b>

**His Majesty's Post Office (Telegraph and Telephone Undertakings).**

*Output.*—The Tables on pages 918 to 920 are based on Returns received from His Majesty's Post Office in respect of works of construction, alteration, and repair in connexion with telegraph and telephone lines, and the manufacture and repair of telegraphic and telephonic apparatus, &c., executed by Post Office employees in the twelve months ended 31st March, 1908. The amounts stated as the value of the work done and goods made represent wages, cost of materials used, and the establishment charges attributable to the work. Consequently, they are not strictly comparable with the output of electrical firms and companies, which is naturally on a profit basis.

The following statement, which is free from duplication, summarises the particulars furnished respecting the output:—

	Construction.	Alteration or Repair.	Total.
	£	£	£
Telegraphic Lines and Works ... ..	403,253	421,574	824,827
Telephonic Lines and Works ... ..	1,361,775	290,133	1,651,908
Electric Lines and Works ... ..	21,027	1,227	22,254
Other Works of Construction ... ..	5,637	651	6,288
<b>Total Value of Work Done ... ..</b>	<b>1,791,692</b>	<b>713,585</b>	<b>2,505,277</b>
			£
Telegraphic and Telephonic Apparatus, made and repaired ... ..			248,172
Uniform Clothing, made ... ..			94,695
Mail Bags and Parcels Post Receptacles, made ... ..			22,605
Stationery ... ..			1,890
<b>Value of Goods Made and of Repairs ... ..</b>			<b>367,362</b>
<b>Total Value ... ..</b>			<b>2,872,639</b>

*Net Output.*—The cost of materials used was £2,048,557, and the amount paid for work sub-contracted was £169,263. The difference, £654,819, between the total of these sums and the value of the output represents wages and establishment charges. It is, therefore, not strictly comparable with the net output of electrical firms and companies, which contains the element of profit.

The net output per head of persons employed in the censal year was over £64.

*Persons Employed.*—The average number of persons employed on the last Wednesdays in April, July, and October, 1907, and January, 1908, is returned as 10,171, viz., 8,658 wage-earners and 1,513 salaried persons, the total number being distributed by age and sex as follows:—

Males:—		Females:—	
Under 18 ... ..	538	Under 18 ... ..	None.
Over 18 ... ..	9,480	Over 18 ... ..	153

It should be observed that the employees returned as engaged on the works covered by the Tables on pages 918 to 920 did not all of them devote their whole time to those works.

The variation in employment during the censal year is shown in the following statement:—

	Persons Employed on the last Wednesday in			
	April, 1907.	July, 1907.	October, 1907.	January, 1908.
Wage-earners ... ..	8,467	8,473	8,885	8,809
Salaried Persons ... ..	1,480	1,475	1,534	1,560
<b>Total ... ..</b>	<b>9,947</b>	<b>9,948</b>	<b>10,419</b>	<b>10,369</b>

*Power.*—The capacity of engines used by the Post Office in connexion with the work shown as output was 7,849 horse-power.

Classed according to kinds of power, the particulars are:—

	Horse-Power.
Steam Engines, Reciprocating ... ..	7,817
Internal Combustion Engines (gas, oil, &c.) ... ..	32
<b>Total ... ..</b>	<b>7,849</b>

Dynamos with an aggregate capacity of 3,392 kilowatts were also owned, and driven by steam engines. The capacity of those dynamos should not be added to that of the engines owned. What the information shows is that (taking 746 kilowatts as equivalent to 1,000 horse-power, and allowing about 10 per cent. for loss of energy in conversion) about 64 per cent. of the engine-power was required for driving dynamos for the production of electric light and power. The quantity of electricity generated was 5,968,783 Board of Trade units, and, in addition, 180,907 units were purchased and used for power and lighting purposes.

**The National Telephone Company.**

*Output.*—The Tables on page 921 are based on Returns received from the National Telephone Company in respect of works of construction, alteration, and repair in connexion with telephone lines, executed by employees of the Company in the calendar year 1907. The amounts stated as the value of the work done represent wages, cost of materials used, and the establishment charges attributable to the work. Consequently they are not strictly comparable with the output of electrical firms and companies, which is naturally on a profit basis.

The value of the works of construction was £1,129,510, and that of works of alteration and repair £374,274, or altogether £1,503,784.

*Net Output.*—The cost of materials used was £837,191, and the amount paid for work given out to other firms was £156,364. The difference, £510,229, between the total of these sums and the value of the work done represents wages and establishment charges. It is, therefore, not strictly comparable with the "net output" of electrical firms and companies, which contains the element of profit.

The net output per head of persons employed in the censal year was nearly £73.

*Persons Employed.*—The average number of persons employed on the works referred to above on the last Wednesdays in January, April, July, and October is returned as 7,028, viz., 6,049 wage-earners and 979 salaried persons, all those employed being males, of whom 382 were under and 6,646 over 18 years of age.

The variation in employment during the censal year is shown in the following statement:—

	Persons Employed on the last Wednesday in			
	January.	April.	July.	October.
Wage-earners ... ..	5,828	6,018	6,156	6,192
Salaried Persons ... ..	979	979	979	979
<b>Total ... ..</b>	<b>6,807</b>	<b>6,997</b>	<b>7,135</b>	<b>7,171</b>

*Power.*—No engines were employed and no electricity was generated or purchased in connexion with the work specified as output.



## TABLES.

## GAS UNDERTAKINGS.

## A.—COMPANIES.

TABLE I (a).—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.  
Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Quantity.			
	<i>(Recorded by Value only.)</i>			
	Tons.	Tons.	Tons.	Tons.
Coal Gas and Water Gas... ..	4,520,000	101,000	86,000	4,707,000
Coke and Breeze ... ..	350,000	8,000	11,000	369,000
Crude Tar ... ..				
Ammoniacal Liquor ... ..				
Ammoniacal Liquor and Crude Tar, not separately distinguished.	<i>(Recorded by Value only.)</i>			
By-products :—	Tons.	Tons.	Tons.	Tons.
Ammonia, Sulphate of ... ..	71,000	1,000	1,000	73,000
Anthracene ... ..	Lbs.	Lbs.	Lbs.	Lbs.
	280,000	—	—	280,000
Benzol and Toluol ... ..	Galls.	Galls.	Galls.	Galls.
	38,000	—	—	38,000
Carbolic Acid ... ..	Cwts.	Cwts.	Cwts.	Cwts.
	14,000	—	—	14,000
Naphtha ... ..	Galls.	Galls.	Galls.	Galls.
	57,000	—	—	57,000
Napthalene ... ..	Cwts.	Cwts.	Cwts.	Cwts.
	29,000	—	—	29,000
Pitch ... ..	Tons.	Tons.	Tons.	Tons.
	64,000	—	—	64,000
Tar (Refined) and Tar Varnishes... ..	Galls.	Galls.	Galls.	Galls.
	149,000	1,000	4,000	154,000
Tar Oil, Creosote, &c. ... ..	6,220,000	6,000	21,000	6,247,000
Other Sorts ... ..				
Other Products ... ..	<i>(Recorded by Value only.)</i>			
	Value.			
	£	£	£	£
Coal Gas and Water Gas ... ..	14,406,000	436,000	486,000	15,328,000
Coke and Breeze ... ..	2,834,000	51,000	83,000	2,968,000
Crude Tar ... ..	347,000	7,000	12,000	366,000
Ammoniacal Liquor ... ..	132,000	4,000	4,000	140,000
Ammoniacal Liquor and Crude Tar, not separately distinguished.	6,000	12,000	—	18,000
By-products :—				
Ammonia, Sulphate of ... ..	704,000	10,000	15,000	729,000
Anthracene ... ..	2,000	—	—	2,000
Benzol and Toluol ... ..	2,000	—	—	2,000
Carbolic Acid ... ..	20,000	—	—	20,000
Naphtha ... ..	3,000	—	—	3,000
Napthalene ... ..	11,000	—	—	11,000
Pitch ... ..	88,000	—	—	88,000
Tar (Refined) and Tar Varnishes... ..	2,000	*	*	2,000
Tar Oil, Creosote, &c. ... ..	67,000	*	*	67,000
Other Sorts ... ..	143,000	1,000	—	144,000
Other Products ... ..	4,000	—	2,000	6,000
TOTAL VALUE OF GOODS MADE ... ..	18,771,000	521,000	602,000	19,894,000
Amount Received for Fixing Stoves, Fittings, &c. (exclusive of the cost of the lighting, heating, or cooking apparatus fixed).	915,000	7,000	28,000	950,000
TOTAL VALUE OF GOODS MADE AND WORK DONE.	19,686,000	528,000	630,000	20,844,000

\* Under £500.

## Gas Undertakings—continued.

## A.—COMPANIES—continued.

TABLE I (b)—COST OF WORK DONE.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

Work Done by Employees of Companies.	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Construction.			
	£	£	£	£
Buildings and Plant ... ..	164,000	2,000	6,000	172,000
Street Mains ... ..	317,000	5,000	2,000	324,000
	Alteration and Repair.			
Buildings and Plant ... ..	1,286,000	12,000	9,000	1,307,000
Street Mains ... ..	371,000	4,000	3,000	378,000
	Total Cost of Work Done.			
Buildings and Plant ... ..	1,450,000	14,000	15,000	1,479,000
Street Mains ... ..	688,000	9,000	5,000	702,000
Work, not separately distinguished ... ..	165,000	2,000	5,000	172,000
TOTAL ... ..	2,303,000	25,000	25,000	2,353,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	I.			
	£	£	£	£
Cost of Materials Used ... ..	8,780,000	258,000	249,000	9,287,000
	II.			
Value of Output :—				
Goods Made for Sale ... ..	18,771,000	521,000	602,000	19,894,000
Amount Received for fixing Stoves, Fittings, &c.	915,000	7,000	28,000	950,000
TOTAL ... ..	19,686,000	528,000	630,000	20,844,000
	III.			
Value of Output less Cost of Materials Used ... ..	10,906,000	270,000	381,000	11,557,000



## Gas Undertakings—continued.

A.—COMPANIES—continued.

TABLE III.—PERSONS EMPLOYED.

(a) GAS WORKS.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JANUARY, APRIL,  
JULY, AND OCTOBER.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
<b>ENGLAND AND WALES:—</b>									
Wage-earners ...	1,471	44,256	45,727	1	145	146	1,472	44,401	45,873
Salaried Persons ...	234	4,687	4,921	6	53	59	240	4,740	4,980
TOTAL ...	1,705	48,943	50,648	7	198	205	1,712	49,141	50,853
<b>SCOTLAND:—</b>									
Wage-earners ...	11	896	907	—	5	5	11	901	912
Salaried Persons ...	7	271	278	1	5	6	8	276	284
TOTAL ...	18	1,167	1,185	1	10	11	19	1,177	1,196
<b>IRELAND:—</b>									
Wage-earners ...	40	1,348	1,388	—	2	2	40	1,350	1,390
Salaried Persons ...	1	145	146	—	7	7	1	152	153
TOTAL ...	41	1,493	1,534	—	9	9	41	1,502	1,543
<b>UNITED KINGDOM:—</b>									
Wage-earners ...	1,522	46,500	48,022	1	152	153	1,523	46,652	48,175
Salaried Persons ...	242	5,103	5,345	7	65	72	249	5,168	5,417
TOTAL ...	1,764	51,603	53,367	8	217	225	1,772	51,820	53,592

(b) TAR-DISTILLING AND AMMONIA WORKS.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JANUARY, APRIL,  
JULY, AND OCTOBER.

	Males.		
	Under 18 years of age.	Over 18 years of age.	Total.
<b>ENGLAND AND WALES:—</b>			
Wage-earners ...	44	1,166	1,210
Salaried Persons ...	—	35	35
TOTAL ...	44	1,201	1,245
<b>SCOTLAND:—</b>			
Wage-earners ...	—	11	11
Salaried Persons ...	—	1	1
TOTAL ...	—	12	12
<b>IRELAND:—</b>			
Wage-earners ...	—	17	17
Salaried Persons ...	—	—	—
TOTAL ...	—	17	17
<b>UNITED KINGDOM:—</b>			
Wage-earners ...	44	1,194	1,238
Salaried Persons ...	—	36	36
TOTAL ...	44	1,230	1,274

## Gas Undertakings—continued.

A.—COMPANIES—continued.

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND  
NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
<b>ENGLAND AND WALES.</b>						
Companies using Power ...	19,458,000	51,298	55,439	435,000	910	853
Companies not using Power ...	228,000	800	—	93,000	298	—
TOTAL ...	19,686,000	52,098	55,439	528,000	1,208	853
<b>SCOTLAND.</b>						
Companies using Power ...	609,000	1,472	1,159	20,502,000	53,680	57,451
Companies not using Power ...	21,000	88	—	342,000	1,186	—
TOTAL ...	630,000	1,560	1,159	20,844,000	54,866	57,451
<b>IRELAND.</b>						
Companies using Power ...	609,000	1,472	1,159	20,502,000	53,680	57,451
Companies not using Power ...	21,000	88	—	342,000	1,186	—
TOTAL ...	630,000	1,560	1,159	20,844,000	54,866	57,451
<b>UNITED KINGDOM.</b>						
Companies using Power ...	609,000	1,472	1,159	20,502,000	53,680	57,451
Companies not using Power ...	21,000	88	—	342,000	1,186	—
TOTAL ...	630,000	1,560	1,159	20,844,000	54,866	57,451

B.—TYPE AND CAPACITY OF ENGINES.

(a) GAS WORKS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
<b>Steam Engines:—</b>				
Reciprocating ...	Horse-Power. 41,287	Horse-Power. 692	Horse-Power. 701	Horse-Power. 42,680
Turbine ...	1,041	—	46	1,087
Internal Combustion Engines (gas, oil, &c.)	10,138	139	401	10,678
Water Power ...	100	—	—	100
Electric Motors*	750	—	—	750
Other Power ...	115	—	—	115
TOTAL ...	53,431	831	1,148	55,410

(b) TAR DISTILLING AND AMMONIA WORKS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
<b>Steam Engines, Reciprocating ...</b>				
Internal Combustion Engines (gas, oil, &c.)	Horse-Power. 1,573	Horse-Power. 22	Horse-Power. 7	Horse-Power. 1,602
Water Power ...	383	—	4	387
Electric Motors*	5	—	—	5
TOTAL ...	47	—	—	47
TOTAL ...	2,008	22	11	2,041

\* Electric Motors so far as returned. Particulars of the capacity of dynamos owned and of the amount of electricity generated or purchased were not required to be stated.



## Gas Undertakings—continued.

B.—PUBLIC AUTHORITIES.

TABLE I. (a).—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.  
Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Quantity.			
Coal Gas and Water Gas ... ..	<i>(Recorded by Value only.)</i>			
	Tons.	Tons.	Tons.	Tons.
Coke and Breeze ... ..	2,202,000	589,000	86,000	2,877,000
Crude Tar ... ..	248,000	29,000	8,000	285,000
Ammoniacal Liquor ... ..	<i>(Recorded by Value only.)</i>			
Ammoniacal Liquor and Crude Tar, not separately distinguished.				
By-products:—	Tons.	Tons.	Tons.	Tons.
Ammonia, Sulphate of ... ..	27,000	5,000	—	32,000
	Lbs.	Lbs.	Lbs.	Lbs.
Anthracene ... ..	16,000	—	—	16,000
	Galls.	Galls.	Galls.	Galls.
Benzol and Toluol ... ..	8,000	—	—	8,000
	—	—	—	18,000
Carbolic Acid ... ..	18,000	—	—	18,000
	Cwts.	Cwts.	Cwts.	Cwts.
	4,000	—	—	4,000
	Galls.	Galls.	Galls.	Galls.
Naphtha ... ..	283,000	7,000	—	290,000
	Cwts.	Cwts.	Cwts.	Cwts.
Naphthalene ... ..	15,000	—	—	15,000
	Tons.	Tons.	Tons.	Tons.
Pitch ... ..	21,000	—	—	21,000
	Galls.	Galls.	Galls.	Galls.
Tar (Refined) and Tar Varnishes ... ..	129,000	359,000	—	488,000
Tar Oil, Creosote, &c. ... ..	1,614,000	16,000	—	1,630,000
Other Sorts ... ..	<i>(Recorded by Value only.)</i>			
Other Products ... ..				
	Value.			
	£	£	£	£
Coal Gas and Water Gas ... ..	5,971,000	1,628,000	234,000	7,833,000
Coke and Breeze ... ..	1,135,000	255,000	76,000	1,466,000
Crude Tar ... ..	265,000	27,000	8,000	300,000
Ammoniacal Liquor ... ..	168,000	3,000	10,000	181,000
Ammoniacal Liquor and Crude Tar, not separately distinguished.	8,000	158,000	—	166,000
By-products:—				
Ammonia, Sulphate of ... ..	286,000	60,000	3,000	349,000
Anthracene ... ..	—	—	—	—
Benzol and Toluol ... ..	—	—	—	—
Carbolic Acid ... ..	4,000	—	—	4,000
Naphtha ... ..	6,000	—	—	6,000
Naphthalene ... ..	1,000	—	—	1,000
Pitch ... ..	22,000	1,000	—	23,000
Tar (Refined) and Tar Varnishes ... ..	1,000	3,000	—	4,000
Tar Oil, Creosote, &c. ... ..	17,000	—	—	17,000
Other Sorts ... ..	16,000	9,000	—	25,000
Other Products ... ..	20,000	1,000	—	21,000
TOTAL VALUE OF GOODS MADE ... ..	7,920,000	2,145,000	331,000	10,396,000
Amount Received for Fixing Stoves, Fittings, &c. (exclusive of the cost of the lighting, heating, or cooking apparatus fixed).	281,000	85,000	5,000	371,000
TOTAL VALUE OF GOODS MADE AND WORK DONE.	8,201,000	2,230,000	336,000	10,767,000

## (116) Gas Undertakings—continued.

B.—PUBLIC AUTHORITIES—continued.

TABLE I. (b).—COST OF WORK DONE.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

Work Done by Employees of Public Authorities.	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Construction.			
	£	£	£	£
Buildings and Plant ... ..	34,000	3,000	1,000	38,000
Street Mains ... ..	134,000	24,000	6,000	164,000
	Alteration and Repair.			
Buildings and Plant ... ..	480,000	115,000	15,000	610,000
Street Mains ... ..	167,000	56,000	4,000	227,000
	Total Cost of Work Done.			
Buildings and Plant ... ..	514,000	118,000	16,000	648,000
Street Mains ... ..	301,000	80,000	10,000	391,000
Work, not separately distinguished ... ..	142,000	—	—	142,000
TOTAL ... ..	957,000	198,000	26,000	1,181,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO  
VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	£	£	£	£
I.				
Cost of Materials Used ... ..	3,767,000	1,104,000	166,000	5,037,000
II.				
Value of Output:—				
Goods Made for Sale ... ..	7,920,000	2,145,000	331,000	10,396,000
Amount Received for fixing Stoves, Fittings, &c.	281,000	85,000	5,000	371,000
TOTAL ... ..	8,201,000	2,230,000	336,000	10,767,000
III.				
Value of Output less Cost of Materials Used ... ..	4,434,000	1,126,000	170,000	5,730,000



## Gas Undertakings—continued.

## B.—PUBLIC AUTHORITIES—continued.

TABLE III.—PERSONS EMPLOYED.

## (a) GAS WORKS.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL,\* JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
ENGLAND AND WALES:—									
Wage-earners ...	325	18,580	18,905	—	59	59	325	18,639	18,964
Salaried Persons ...	98	2,005	2,103	—	4	4	98	2,009	2,107
TOTAL ...	423	20,585	21,008	—	63	63	423	20,648	21,071
SCOTLAND:—									
Wage-earners ...	58	4,985	5,043	2	15	17	60	5,000	5,060
Salaried Persons ...	65	749	814	1	14	15	66	763	829
TOTAL ...	123	5,734	5,857	3	29	32	126	5,763	5,889
IRELAND:—									
Wage-earners ...	5	1,076	1,081	—	5	5	5	1,081	1,086
Salaried Persons ...	5	146	151	—	1	1	5	147	152
TOTAL ...	10	1,222	1,232	—	6	6	10	1,228	1,238
UNITED KINGDOM:—									
Wage-earners ...	388	24,641	25,029	2	79	81	390	24,720	25,110
Salaried Persons ...	168	2,900	3,068	1	19	20	169	2,919	3,088
TOTAL ...	556	27,541	28,097	3	98	101	559	27,639	28,198

## (b) TAR-DISTILLING AND AMMONIA WORKS.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL,\* JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.		
	Under 18 years of age.	Over 18 years of age.	Total.
ENGLAND AND WALES:—			
Wage-earners ...	3	305	308
Salaried Persons ...	—	13	13
TOTAL ...	3	318	321
SCOTLAND:—			
Wage-earners ...	—	45	45
Salaried Persons ...	—	1	1
TOTAL ...	—	46	46
IRELAND:—			
Wage-earners ...	—	8	8
Salaried Persons ...	—	1	1
TOTAL ...	—	9	9
UNITED KINGDOM:—			
Wage-earners ...	3	358	361
Salaried Persons ...	—	15	15
TOTAL ...	3	373	376

\* April, 1908, in the case of Local Authorities in Scotland.

## Gas Undertakings—continued.

## B.—PUBLIC AUTHORITIES—continued.

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	ENGLAND AND WALES.			SCOTLAND.		
	£		Horse-Power.	£		Horse-Power.
Authorities using Power ...	8,179,000	21,342	24,438	2,227,000	5,922	8,571
Authorities not using Power ...	22,000	50	—	3,000	13	—
TOTAL ...	8,201,000	21,392	24,438	2,230,000	5,935	8,571
	IRELAND.			UNITED KINGDOM.		
	£		Horse-Power.	£		Horse-Power.
Authorities using Power ...	335,000	1,236	609	10,741,000	28,500	33,618
Authorities not using Power ...	1,000	11	—	26,000	74	—
TOTAL ...	336,000	1,247	609	10,767,000	28,574	33,618

## B.—TYPE AND CAPACITY OF ENGINES.

## (a) GAS WORKS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Steam Engines:—	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Reciprocating ...	19,248	7,185	371	26,804
Turbine ...	286	360	—	646
Internal Combustion Engines (gas, oil, &c.)	3,901	781	222	4,904
Water Power ...	53	—	15	68
Electric Motors*	244	125	—	369
Other Power ...	150	12	—	162
TOTAL ...	23,882	8,463	608	32,953

## (b) TAR-DISTILLING AND AMMONIA WORKS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Steam Engines:—	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Reciprocating ...	511	105	1	617
Turbine ...	30	—	—	30
Internal Combustion Engines (gas, oil, &c.)	15	3	—	18
TOTAL ...	556	108	1	665

\* Electric Motors so far as returned. Particulars of the capacity of dynamos owned and of the amount of electricity generated or purchased were not required to be stated.



## WATERWORKS UNDERTAKINGS.

A.—COMPANIES.

TABLE I (a).—WATER SUPPLIED.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	United Kingdom.*
Water Supplied ... ..	£ 2,148,000
Amount Received for Fixing Meters, Pipes, Fittings, &c.	24,000
<b>TOTAL VALUE...</b>	<b>2,172,000</b>

TABLE I (b).—COST OF WORK DONE.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	United Kingdom.*		
	Construction.	Alteration and Repair.	Total.
	£	£	£
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.)	234,000	174,000	408,000
Buildings in connexion with Waterworks ... ..	12,000	9,000	21,000
Machinery and Plant in connexion with Waterworks ... ..	8,000	53,000	61,000
Work, not separately distinguished ... ..	57,000	12,000	69,000
<b>TOTAL COST OF WORK DONE...</b>	<b>311,000</b>	<b>248,000</b>	<b>559,000</b>

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	United Kingdom.*
I.	£
Cost of Materials Used ... ..	445,000
II.	
Value of Output :—	
Water Supplied ... ..	2,148,000
Amount Received for Fixing Meters, Pipes, Fittings, &c.	24,000
<b>TOTAL ... ..</b>	<b>2,172,000</b>
III.	
Value of Output less Cost of Materials Used ... ..	1,727,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JANUARY, APRIL, JULY, AND OCTOBER.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
<b>UNITED KINGDOM* :—</b>									
Wage-earners... ..	60	3,632	3,692	—	22	22	60	3,654	3,714
Salaried Persons ... ..	45	951	996	—	5	5	45	956	1,001
<b>TOTAL ... ..</b>	<b>105</b>	<b>4,583</b>	<b>4,688</b>	<b>—</b>	<b>27</b>	<b>27</b>	<b>105</b>	<b>4,610</b>	<b>4,715</b>

\* In order to avoid the possible disclosure of particulars relating to certain companies, figures can only be shown for the United Kingdom as a whole.

## Waterworks Undertakings—continued.

A.—COMPANIES—continued.

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF WATER SUPPLIED AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Water Supplied and Work Done in this Table is given to the nearest thousand pounds.

	Gross Value of Water Supplied and Work Done.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Waterworks using Power ... ..	2,052,000	4,420	46,772
Waterworks not using Power ... ..	120,000	295	—
<b>TOTAL ... ..</b>	<b>2,172,000</b>	<b>4,715</b>	<b>46,772</b>

B.—TYPE AND CAPACITY OF ENGINES.

	United Kingdom.*
	Horse-Power.
Steam Engines : Reciprocating ... ..	42,260
Steam Turbines ... ..	7
Internal Combustion Engines (gas, oil, &c.) ... ..	4,064
Water Power ... ..	402
Other Power ... ..	21
Electric Motors† ... ..	18
<b>TOTAL ... ..</b>	<b>46,772</b>

NOTE.—Particulars of the capacity of dynamos owned or of the amount of electricity generated or purchased were not asked for in the case of Waterworks Undertakings.

\* In order to avoid the possible disclosure of particulars relating to certain companies, figures can only be shown for the United Kingdom as a whole.

† Electric Motors so far as returned. Particulars of the capacity of the dynamos owned and of the amount of electricity generated or purchased were not required to be stated.



Waterworks Undertakings—continued.

B.—PUBLIC AUTHORITIES.

TABLE I (a).—WATER SUPPLIED.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Water Supplied ... ..	£ 7,359,000	£ 783,000	£ 199,000	£ 8,341,000
Amount Received for Fixing Meters, Pipes, Fittings, &c.	120,000	—	1,000	121,000
TOTAL VALUE ... ..	7,479,000	783,000	200,000	8,462,000

TABLE I (b).—COST OF WORK DONE.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
<i>Construction.</i>				
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.).	£ 469,000	£ 53,000	£ 12,000	£ 534,000.
Buildings in connexion with Waterworks ...	9,000	—	1,000	10,000
Machinery and Plant in connexion with Waterworks.	16,000	—	—	16,000
<i>Alteration and Repair.</i>				
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.).	641,000	162,000	35,000	838,000
Buildings in connexion with Waterworks ...	12,000	—	—	12,000
Machinery and Plant in connexion with Waterworks.	49,000	1,000	—	50,000
<i>Total Cost of Work Done.</i>				
Waterworks (including Reservoirs, Wells, Aqueducts, Conduits, Mains from Reservoirs, Street Mains, &c.).	1,110,000	215,000	47,000	1,372,000
Buildings in connexion with Waterworks ...	21,000	—	1,000	22,000
Machinery and Plant in connexion with Waterworks.	65,000	1,000	—	66,000
Work, not separately distinguished ... ..	343,000	—	1,000	344,000
TOTAL COST OF WORK DONE ... ..	1,539,000	216,000	49,000	1,804,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
I. Cost of Materials Used ... ..	£ 1,011,000	£ 86,000	£ 17,000	£ 1,114,000
II. Value of Output :—				
Water Supplied ... ..	7,359,000	783,000	199,000	8,341,000
Amount Received for Fixing Meters, Pipes, Fittings, &c.	120,000	—	1,000	121,000
TOTAL ... ..	7,479,000	783,000	200,000	8,462,000
III. Value of Output less Cost of Materials Used ...	6,468,000	697,000	183,000	7,348,000

Waterworks Undertakings—continued.

B.—PUBLIC AUTHORITIES—continued.

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS, AT WORK ON THE LAST PAY-DAYS IN APRIL,\* JULY, AND OCTOBER, 1907; AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
<b>ENGLAND AND WALES:—</b>									
Wage-earners... ..	166	12,733	12,899	—	55	55	166	12,788	12,954
Salaried Persons ... ..	91	2,093	2,184	—	29	29	91	2,122	2,213
TOTAL ... ..	257	14,826	15,083	—	84	84	257	14,910	15,167
<b>SCOTLAND:—</b>									
Wage-earners... ..	15	1,276	1,291	—	2	2	15	1,278	1,293
Salaried Persons ... ..	7	285	292	1	3	4	8	288	296
TOTAL ... ..	22	1,561	1,583	1	5	6	23	1,566	1,589
<b>IRELAND:—</b>									
Wage-earners... ..	8	558	566	—	4	4	8	562	570
Salaried Persons ... ..	—	63	63	—	—	—	—	63	63
TOTAL ... ..	8	621	629	—	4	4	8	625	633
<b>UNITED KINGDOM:—</b>									
Wage-earners... ..	189	14,567	14,756	—	61	61	189	14,628	14,817
Salaried Persons ... ..	98	2,441	2,539	1	32	33	99	2,473	2,572
TOTAL ... ..	287	17,008	17,295	1	93	94	288	17,101	17,389

\* April, 1908, in the case of Local Authorities in Scotland.

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF WATER SUPPLIED AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Water Supplied and Work Done in this Table is given to the nearest thousand pounds.

	Gross Value of Water Supplied and Work Done.	Number of Persons Employed.	Total Capacity of Engines.	ENGLAND AND WALES.		SCOTLAND.	
				£	Horse-Power.	£	Horse-Power.
Waterworks using Power ... ..	6,708,000	13,083	88,290	338,000	864	2,179	
Waterworks not using Power ... ..	771,000	2,084	—	445,000	725	—	
TOTAL ... ..	7,479,000	15,167	88,290	783,000	1,589	2,179	
<b>IRELAND.</b>							
<b>UNITED KINGDOM.</b>							
	£		Horse-Power.	£		Horse-Power.	
Waterworks using Power ... ..	186,000	571	1,174	7,232,000	14,518	91,643	
Waterworks not using Power ... ..	14,000	62	—	1,230,000	2,871	—	
TOTAL ... ..	200,000	633	1,174	8,462,000	17,389	91,643	



## Waterworks Undertakings—continued.

## B.—PUBLIC AUTHORITIES—continued

TABLE IV.—continued.

## B.—TYPE AND CAPACITY OF ENGINES.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Steam Engines, Reciprocating ...	82,458	1,946	721	85,125
Steam Turbines ... ..	238	—	—	238
Internal Combustion Engines (gas, oil, &c.) ... ..	3,739	96	18	3,853
Water Power ... ..	1,559	137	435	2,131
Other Power ... ..	4	—	—	4
Electric Motors* ... ..	292	—	—	292
<b>TOTAL ... ..</b>	<b>88,290</b>	<b>2,179</b>	<b>1,174</b>	<b>91,643</b>

\* Electric motors so far as returned. Particulars of the capacity of dynamos owned or of the amount of electricity generated or purchased were not asked for in the case of Waterworks Undertakings.

## ELECTRICITY UNDERTAKINGS.

## A.—COMPANIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
(a) ELECTRICITY SUPPLIED.				
Electricity Supplied ... ..	£ 3,066,000	£ 79,000	£ 37,000	£ 3,182,000
(b) COST OF WORK DONE.				
(i) Construction.				
A. On Generating Stations :—	£	£	£	£
Buildings ... ..	33,000	—	1,000	34,000
Engines, Boilers, &c. ... ..	53,000	1,000	—	54,000
Machinery, Instruments, and Tools ...	34,000	—	4,000	38,000
Buildings and Machinery, not separately distinguished.	—	1,000	—	1,000
<b>TOTAL—Generating Plant ... ..</b>	<b>120,000</b>	<b>2,000</b>	<b>5,000</b>	<b>127,000</b>
B. On Distributing Plant :—				
Mains of all kinds ... ..	228,000	22,000	2,000	252,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	77,000	3,000	2,000	82,000
Apparatus at Distributing Stations ...	23,000	4,000	—	27,000
Mains, Machinery, and Apparatus, not separately distinguished.	8,000	—	—	8,000
<b>TOTAL—Distributing Plant ... ..</b>	<b>336,000</b>	<b>29,000</b>	<b>4,000</b>	<b>369,000</b>
C. Public Lamps ... ..	4,000	—	—	4,000
(ii) Alteration and Repair.				
A. On Generating Stations :—				
Buildings ... ..	15,000	1,000	—	16,000
Engines, Boilers, &c. ... ..	60,000	1,000	—	61,000
Machinery, Instruments, and Tools ...	70,000	3,000	2,000	75,000
Buildings and Machinery, not separately distinguished.	3,000	—	—	3,000
<b>TOTAL—Generating Plant ... ..</b>	<b>148,000</b>	<b>5,000</b>	<b>2,000</b>	<b>155,000</b>
B. On Distributing Plant :—				
Mains of all kinds ... ..	33,000	2,000	2,000	37,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	43,000	—	2,000	45,000
Apparatus at Distributing Stations ...	13,000	1,000	—	14,000
Mains, Machinery, and Apparatus, not separately distinguished.	4,000	—	—	4,000
<b>TOTAL—Distributing Plant ... ..</b>	<b>93,000</b>	<b>3,000</b>	<b>4,000</b>	<b>100,000</b>
C. Public Lamps ... ..	17,000	2,000	1,000	20,000



## Electricity Undertakings—continued

A.—COMPANIES—continued.

TABLE I.—OUTPUT—continued.

NOTE.—The figures in this Table are given to the nearest thousand in each case.  
Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
(b) COST OF WORK DONE—continued.				
(iii) Total Cost of Work Done.				
	£	£	£	£
A. On Generating Stations :—				
Buildings ... ..	48,000	1,000	1,000	50,000
Engines, Boilers, &c. ... ..	113,000	2,000	—	115,000
Machinery, Instruments, and Tools ... ..	104,000	3,000	6,000	113,000
Buildings and Machinery, not separately distinguished.	3,000	1,000	—	4,000
TOTAL—Generating Plant... ..	268,000	7,000	7,000	282,000
B. On Distributing Plant :—				
Mains of all kinds ... ..	261,000	24,000	4,000	289,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	120,000	3,000	4,000	127,000
Apparatus at Distributing Stations ... ..	36,000	5,000	—	41,000
Mains, Machinery, and Apparatus, not separately distinguished.	12,000	—	—	12,000
TOTAL—Distributing Plant ... ..	429,000	32,000	8,000	469,000
C. Public Lamps... ..	21,000	2,000	1,000	24,000
D. Work not separately distinguished ... ..	14,000	2,000	—	16,000
TOTAL COST OF WORK DONE ... ..	732,000	43,000	16,000	791,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	£	£	£	£
I.				
Cost of Materials Used ... ..	1,125,000	49,000	12,000	1,186,000
II.				
Value of Output :—				
Electricity Supplied ... ..	3,066,000	79,000	37,000	3,182,000
III.				
Value of Output less Cost of Materials Used... ..	1,941,000	30,000	25,000	1,996,000

## Electricity Undertakings—continued.

A.—COMPANIES—continued.

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JANUARY, APRIL, JULY, AND OCTOBER.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
ENGLAND AND WALES :—									
Wage-earners ... ..	306	6,102	6,408	—	28	28	306	6,130	6,436
Salaried Persons ... ..	126	1,401	1,527	3	51	54	129	1,452	1,581
TOTAL ... ..	432	7,503	7,935	3	79	82	435	7,582	8,017
SCOTLAND :—									
Wage-earners ... ..	12	250	262	1	2	3	13	252	265
Salaried Persons ... ..	7	44	51	—	2	2	7	46	53
TOTAL ... ..	19	294	313	1	4	5	20	298	318
IRELAND :—									
Wage-earners ... ..	6	124	130	—	1	1	6	125	131
Salaried Persons ... ..	—	33	33	—	—	—	—	33	33
TOTAL ... ..	6	157	163	—	1	1	6	158	164
UNITED KINGDOM :—									
Wage-earners ... ..	324	6,476	6,800	1	31	32	325	6,507	6,832
Salaried Persons ... ..	133	1,478	1,611	3	53	56	136	1,531	1,667
TOTAL ... ..	457	7,954	8,411	4	84	88	461	8,038	8,499

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
England and Wales ... ..	3,066,000	8,017	539,566
Scotland ... ..	79,000	318	24,291
Ireland ... ..	37,000	164	5,548
UNITED KINGDOM ... ..	3,182,000	8,499	569,405



Electricity Undertakings—*continued.*A.—COMPANIES—*continued.*TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED—*continued.*

## B.—TYPE AND CAPACITY OF ENGINES AND CAPACITY OF DYNAMOS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Steam Engines: Reciprocating ...	310,158	10,966	3,739	324,863
Steam Turbines ...	214,607	12,166	750	227,523
Internal Combustion Engines (gas, oil, &c.) ...	7,011	547	461	8,019
Water Power ...	7,790	612	598	9,000
<b>TOTAL ...</b>	<b>539,566</b>	<b>24,291</b>	<b>5,548</b>	<b>569,405</b>
	Kilowatts.	Kilowatts.	Kilowatts.	Kilowatts.
Capacity of Dynamos driven by:—				
Steam Engines: Reciprocating...	196,049	7,294	2,355	205,698
Steam Turbines ...	152,530	9,200	500	162,230
Other Power ...	10,774	802	661	12,237
<b>TOTAL ...</b>	<b>359,353</b>	<b>17,296</b>	<b>3,516</b>	<b>380,165</b>

## C.—AMOUNT OF ELECTRICITY PURCHASED.

NOTE.—*The figures in this Table are give to the nearest thousand in each case.*

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Board of Trade Units.	Board of Trade Units.	Board of Trade Units.	Board of Trade Units.
Amount of Electricity Purchased ...	32,422,000	2,000	—	32,424,000

Electricity Undertakings—*continued.*

## B.—PUBLIC AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—*The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.*

	England and Wales.	Scotland.	Ireland.	United Kingdom.
(a) ELECTRICITY SUPPLIED.				
Electricity Supplied ...	£ 4,827,000	£ 763,000	£ 141,000	£ 5,731,000
(b) COST OF WORK DONE.				
(i) Construction.				
A. On Generating Stations:—	£	£	£	£
Buildings ...	21,000	5,000	—	26,000
Engines, Boilers, &c. ...	14,000	—	—	14,000
Machinery, Instruments, and Tools ...	54,000	14,000	1,000	69,000
Buildings and Machinery, not separately distinguished.	1,000	—	1,000	2,000
<b>TOTAL—Generating Plant ...</b>	<b>90,000</b>	<b>19,000</b>	<b>2,000</b>	<b>111,000</b>
B. On Distributing Plant:—				
Mains of all kinds ...	403,000	87,000	10,000	500,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises ...	67,000	7,000	—	74,000
Apparatus at Distributing Stations ...	19,000	—	—	19,000
Mains, Machinery, and Apparatus, not separately distinguished.	31,000	20,000	4,000	55,000
<b>TOTAL—Distributing Plant ...</b>	<b>520,000</b>	<b>114,000</b>	<b>14,000</b>	<b>648,000</b>
C. Public Lamps ...	8,000	1,000	1,000	10,000
(ii) Alterations and Repairs.				
A. On Generating Stations:—				
Buildings ...	32,000	5,000	—	37,000
Engines, Boilers, &c. ...	132,000	12,000	—	144,000
Machinery, Instruments, and Tools ...	180,000	29,000	4,000	213,000
Buildings and Machinery, not separately distinguished.	18,000	2,000	3,000	23,000
<b>TOTAL—Generating Plant ...</b>	<b>362,000</b>	<b>48,000</b>	<b>7,000</b>	<b>417,000</b>
B. On Distributing Plant:—				
Mains of all kinds ...	88,000	24,000	1,000	113,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	51,000	6,000	—	57,000
Apparatus at Distributing Stations ...	24,000	2,000	—	26,000
Mains, Machinery, and Apparatus, not separately distinguished.	22,000	10,000	1,000	33,000
<b>TOTAL—Distributing Plant ...</b>	<b>185,000</b>	<b>42,000</b>	<b>2,000</b>	<b>229,000</b>
C. Public Lamps ...	87,000	14,000	4,000	105,000



Electricity Undertakings—*continued.*B.—PUBLIC AUTHORITIES—*continued.*TABLE I.—OUTPUT—*continued.*

NOTE.—The figures in this Table are given to the nearest thousand in each case.  
Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
(b) COST OF WORK DONE— <i>continued.</i>				
(iii) Total Cost of Work Done.				
	£	£	£	£
A. On Generating Stations :—				
Buildings ... ..	53,000	10,000	—	63,000
Engines, Boilers, &c. ... ..	146,000	12,000	—	158,000
Machinery, Instruments, and Tools ... ..	234,000	43,000	5,000	282,000
Buildings and Machinery, not separately distinguished.	19,000	2,000	4,000	25,000
TOTAL—Generating Plant .. ..	452,000	67,000	9,000	528,000
B. On Distributing Plant :—				
Mains of all kinds ... ..	491,000	111,000	11,000	613,000
Transformers, Meters, Switches, Fuses, and Other Apparatus on Consumers' Premises.	118,000	13,000	—	131,000
Apparatus at Distributing Stations ... ..	43,000	2,000	—	45,000
Mains, Machinery, and Apparatus, not separately distinguished.	53,000	30,000	5,000	88,000
TOTAL—Distributing Plant ... ..	705,000	156,000	16,000	877,000
C. Public Lamps ... ..	95,000	15,000	5,000	115,000
D. Work, not separately distinguished ... ..	9,000	1,000	1,000	11,000
TOTAL COST OF WORK DONE ... ..	1,261,000	239,000	31,000	1,531,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	£	£	£	£
I.				
Cost of Materials Used ... ..	1,811,000	274,000	54,000	2,139,000
II.				
Value of Output :—				
Electricity Supplied ... ..	4,827,000	763,000	141,000	5,731,000
III.				
Value of Output less Cost of Materials Used... ..	3,016,000	489,000	87,000	3,592,000

Electricity Undertakings—*continued.*B.—PUBLIC AUTHORITIES—*continued.*

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL,\* JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
ENGLAND AND WALES :—									
Wage-earners ... ..	276	9,541	9,817	—	60	60	276	9,601	9,877
Salaried Persons ... ..	130	1,653	1,783	2	23	25	132	1,676	1,808
TOTAL ... ..	406	11,194	11,600	2	83	85	408	11,277	11,685
SCOTLAND :—									
Wage-earners ... ..	22	1,694	1,716	—	12	12	22	1,706	1,728
Salaried Persons ... ..	15	226	241	—	3	3	15	229	244
TOTAL ... ..	37	1,920	1,957	—	15	15	37	1,935	1,972
IRELAND :—									
Wage-earners ... ..	12	372	384	—	3	3	12	375	387
Salaried Persons ... ..	2	73	75	—	—	—	2	73	75
TOTAL ... ..	14	445	459	—	3	3	14	448	462
UNITED KINGDOM :—									
Wage-earners ... ..	310	11,607	11,917	—	75	75	310	11,682	11,992
Salaried Persons ... ..	147	1,952	2,099	2	26	28	149	1,978	2,127
TOTAL ... ..	457	13,559	14,016	2	101	103	459	13,660	14,119

\* April, 1908, in the case of Local Authorities in Scotland.

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
England and Wales ... ..	4,827,000	11,685	845,310
Scotland ... ..	763,000	1,972	122,667
Ireland ... ..	141,000	462	22,692
UNITED KINGDOM ... ..	5,731,000	14,119	990,669



## Electricity Undertakings—continued.

## B.—PUBLIC AUTHORITIES—continued.

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED—continued.

## B.—TYPE AND CAPACITY OF ENGINES AND CAPACITY OF DYNAMOS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Horse-Power.	Horse-Power.	Horse-Power.	Horse-Power.
Steam Engines : Reciprocating ...	672,349	96,649	19,880	788,878
Steam Turbines ...	166,308	25,900	2,400	194,608
Internal Combustion Engines (gas, oil, &c.) ...	6,019	118	372	6,509
Water Power ...	624	—	40	664
Other Power ...	10	—	—	10
<b>TOTAL ...</b>	<b>845,310</b>	<b>122,667</b>	<b>22,692</b>	<b>990,669</b>
	Kilowatts.	Kilowatts.	Kilowatts.	Kilowatts.
Capacity of Dynamos driven by :—				
Steam Engines : Reciprocating	426,738	63,766	13,050	503,554
Steam Turbines	111,115	19,400	1,500	132,015
Other Power ...	4,220	76	282	4,578
<b>TOTAL ...</b>	<b>542,073</b>	<b>83,242</b>	<b>14,832</b>	<b>640,147</b>

## C.—AMOUNT OF ELECTRICITY PURCHASED.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
	Board of Trade Units.	Board of Trade Units.	Board of Trade Units.	Board of Trade Units.
Amount of Electricity Purchased ...	13,608,000	597,000	—	14,205,000

## LOCAL AUTHORITIES—ENGLAND AND WALES.

## (a) URBAN AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
<b>Work Done on :—</b>				
<b>Buildings :—</b>	£	£	£	£
Private Premises (Residential, Trade, or Business) ...	17,000	88,000	9,000	114,000
Public Premises ...	121,000	345,000	20,000	486,000
<b>TOTAL—Buildings ...</b>	<b>138,000</b>	<b>433,000</b>	<b>29,000</b>	<b>600,000</b>
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains). ...	692,000	4,852,000	444,000	5,988,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings). ...	12,000	212,000	28,000	252,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains). ...	317,000	946,000	101,000	1,364,000
Tunnels and Subways ...	—	4,000	—	4,000
Public Conveniences ...	11,000	44,000	6,000	61,000
<b>Tramways and Light Railways :—</b>				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c. ...	251,000	400,000	10,000	661,000
Tramcars ...	43,000	381,000	8,000	432,000
<b>TOTAL—Tramways and Light Railways.</b>	<b>294,000</b>	<b>781,000</b>	<b>18,000</b>	<b>1,093,000</b>
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces. ...	45,000	381,000	29,000	455,000
<b>Harbours and Docks :—</b>				
Harbours, Wharves, Piers, and Jetties	76,000	161,000	6,000	243,000
Docks (Wet and Dry), including Dock Railways.	302,000	346,000	—	648,000
Harbours, Wharves, and Docks (not separately distinguished). ...	—	2,000	85,000	87,000
<b>TOTAL—Harbours and Docks ...</b>	<b>378,000</b>	<b>509,000</b>	<b>91,000</b>	<b>978,000</b>
River and Sea Walls, Embankments, and Defences. ...	46,000	42,000	3,000	91,000
Canals and Waterways ...	22,000	53,000	—	75,000
Ferries and Landing Stages ...	2,000	87,000	—	89,000
Land Drainage Works (Sluices, &c.) ...	1,000	1,000	—	2,000
Cemeteries ...	12,000	172,000	10,000	194,000
Waterworks ...	2,000	5,000	—	7,000
Telephonic Lines and Works ...	1,000	4,000	—	5,000
Repairs to Plant, Furniture, Carts, Harness, &c. ...	—	66,000	—	66,000
Printing and Bookbinding ...	3,000	—	—	3,000
Other Work Done ...	1,000	2,000	—	3,000
<b>TOTAL VALUE OF WORK DONE</b>	<b>1,977,000</b>	<b>8,594,000</b>	<b>759,000</b>	<b>11,330,000</b>
<b>Goods Made, and not included under any of the foregoing headings :—</b>				
Road-metal, Concrete, Tar-macadam, &c. ...	...	...	...	58,000
Manures ...	...	...	...	20,000
Grease from Sewage ...	...	...	...	19,000
Mortar ...	...	...	...	12,000
Ice ...	...	...	...	5,000
Other Products ...	...	...	...	5,000
<b>TOTAL VALUE OF GOODS MADE ...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>119,000</b>
<b>TOTAL VALUE OF WORK DONE AND GOODS MADE ...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>11,449,000</b>



Local Authorities—England and Wales—*continued.*(a) URBAN AUTHORITIES—*continued.*

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

						Value.
I.						£
Cost of Materials Used	...	...	...	...	...	4,497,000
II.						
Value of Output :—						
Work Done	...	...	...	...	...	11,330,000
Goods Made	...	...	...	...	...	119,000
TOTAL	...	...	...	...	...	11,449,000
III.						
Value of Output less Cost of Materials Used	...	...	...	...	...	6,952,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
	Wage-earners	1,777	92,748	94,525	6	390	396	1,783	93,138
Salaried Persons	230	5,447	5,677	3	77	80	233	5,524	5,757
TOTAL	2,007	98,195	100,202	9	467	476	2,016	98,662	100,678

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using power...	10,455,000	90,971	129,895
Authorities not using power	994,000	9,707	—
TOTAL	11,449,000	100,678	129,895

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c. ...	11,518
Steam Turbines ...	717
Other Engines ...	89,212
Internal Combustion Engines (gas, oil, &c.) ...	18,965
Water Power ...	5,424
Electric Motors* ...	4,059
TOTAL	129,895

\* Electric Motors, so far as returned. Particulars as to the capacity of dynamos owned, and as to the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

Local Authorities—England and Wales—*continued.*

(b) RURAL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—	£	£	£	£
Buildings :—				
Private Premises (Residential, Trade, or Business).	175,000	79,000	8,000	262,000
Public Premises	2,000	4,000	10,000	16,000
TOTAL—Buildings	177,000	83,000	18,000	278,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains)	52,000	3,101,000	363,000	3,516,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	—	5,000	1,000	6,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	189,000	297,000	17,000	503,000
Tunnels and Subways	4,000	9,000	—	13,000
Public Conveniences	1,000	—	—	1,000
Tramways and Light Railways :—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	109,000	100,000	—	209,000
Tramcars	7,000	150,000	—	157,000
TOTAL—Tramways and Light Railways.	116,000	250,000	—	366,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	9,000	9,000	—	18,000
River and Sea Walls, Embankments, and Defences.	6,000	24,000	2,000	32,000
Canals and Waterways	198,000	80,000	1,000	279,000
Ferries and Landing Stages	1,000	27,000	—	28,000
Land Drainage Works (Sluices, &c.)	1,000	58,000	3,000	62,000
Cemeteries	—	5,000	—	5,000
Waterworks	1,000	7,000	2,000	10,000
Repairs to Plant, Furniture, Carts, Harness, &c.	—	17,000	—	17,000
Shoeing Horses	—	9,000	—	9,000
Printing and Bookbinding	4,000	—	—	4,000
TOTAL VALUE OF WORK DONE	759,000	3,981,000	407,000	5,147,000

Goods Made, and not included under any of the foregoing headings :—

Road-metal, Concrete, Tar-macadam, &c.	12,000
Furniture	15,000
Other Products	4,000
TOTAL VALUE OF GOODS MADE	31,000
TOTAL VALUE OF WORK DONE AND GOODS MADE	5,178,000



## Local Authorities—England and Wales—continued.

(b) RURAL AUTHORITIES—continued.

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

		Value.
I.		£
Cost of Materials Used	...	2,449,000
II.		
Value of Output :—		
Work Done	...	5,147,000
Goods Made	...	31,000
TOTAL	...	5,178,000
III.		
Value of Output less Cost of Materials Used	...	2,729,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ...	108	36,887	36,995	7	32	39	115	36,919	37,034
Salaried Persons ...	15	2,144	2,159	—	10	10	15	2,154	2,169
TOTAL ...	123	39,031	39,154	7	42	49	130	39,073	39,203

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
Authorities using Power	£ 4,051,000	26,972	Horse-Power. 40,764
Authorities not using Power	1,127,000	12,231	—
TOTAL	5,178,000	39,203	40,764

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c....	6,686
Steam Turbines	128
Other Steam Engines	29,075
Internal Combustion Engines (gas, oil, &c.)	4,802
Water Power	38
Electric Motors*	35
TOTAL	40,764

\* Electric Motors, so far as returned. Particulars as to the capacity of dynamos owned, and as to the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

## Local Authorities—England and Wales—continued.

(c) MISCELLANEOUS AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Total.
Work Done on :—	£	£	£
Buildings :—			
Private Premises (Residential, Trade, or Business)	1,000	5,000	6,000
Public Premises	36,000	243,000	279,000
TOTAL—Buildings	37,000	248,000	285,000
Highways and Bridges (including Roads, Streets, Foot-paths, and Surface Drains).	—	3,000	3,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	62,000	37,000	99,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	1,000	—	1,000
River and Sea Walls, Embankments, and Defences	—	1,000	1,000
Cemeteries	—	1,000	1,000
TOTAL VALUE OF WORK DONE	100,000	290,000	390,000
Goods Made, and not included under any of the foregoing headings :—			
Clothing	...	...	37,000
Furniture	...	...	3,000
Bread	...	...	14,000
Other Products	...	...	6,000
TOTAL VALUE OF GOODS MADE	...	...	60,000
TOTAL VALUE OF WORK DONE AND GOODS MADE	...	...	450,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

		Value.
I.		£
Cost of Materials Used	...	195,000
II.		
Value of Output :—		
Work Done	...	390,000
Goods Made	...	60,000
TOTAL	...	450,000
III.		
Value of Output less Cost of Materials Used	...	255,000



Local Authorities—England and Wales—*continued.*(c) MISCELLANEOUS AUTHORITIES—*continued.*

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ...	27	2,770	2,797	—	176	176	27	2,946	2,973
Salaried Persons ...	5	138	143	—	4	4	5	142	147
<b>TOTAL ...</b>	<b>32</b>	<b>2,908</b>	<b>2,940</b>	<b>—</b>	<b>180</b>	<b>180</b>	<b>32</b>	<b>3,088</b>	<b>3,120</b>

TABLE IV.—CAPACITY OF ENGINES OWNED.

## A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ...	205,000	1,198	796
Authorities not using Power ...	245,000	1,922	—
<b>TOTAL ...</b>	<b>450,000</b>	<b>3,120</b>	<b>796</b>

## B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c....	66
Other Steam Engines ...	601
Internal Combustion Engines (gas, oil, &c.) ...	53
Electric Motors* ...	76
<b>TOTAL ...</b>	<b>796</b>

\* Electric Motors, so far as returned. Particulars as to the capacity of dynamos owned, and as to the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

Local Authorities—England and Wales—*continued.*

## (d) ALL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—				
Buildings :—	£	£	£	£
Private Premises (Residential, Trade, or Business) ...	193,000	172,000	17,000	382,000
Public Premises ...	159,000	592,000	30,000	781,000
<b>TOTAL—Buildings ...</b>	<b>352,000</b>	<b>764,000</b>	<b>47,000</b>	<b>1,163,000</b>
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains) ...	744,000	7,956,000	807,000	9,507,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings) ...	12,000	217,000	29,000	258,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains) ...	568,000	1,280,000	118,000	1,966,000
Tunnels and Subways ...	4,000	13,000	—	17,000
Public Conveniences ...	12,000	44,000	6,000	62,000
Tramways and Light Railways :—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c. ...	360,000	500,000	10,000	870,000
Tramcars ...	50,000	531,000	8,000	589,000
<b>TOTAL—Tramways and Light Railways ...</b>	<b>410,000</b>	<b>1,031,000</b>	<b>18,000</b>	<b>1,459,000</b>
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces ...	55,000	390,000	29,000	474,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties ...	76,000	161,000	6,000	243,000
Docks (Wet and Dry), including Dock Railways ...	302,000	346,000	—	648,000
Harbours, Wharves, and Docks (not separately distinguished) ...	—	2,000	85,000	87,000
<b>TOTAL—Harbours and Docks ...</b>	<b>378,000</b>	<b>509,000</b>	<b>91,000</b>	<b>978,000</b>
River and Sea Walls, Embankments, and Defences ...	52,000	67,000	5,000	124,000
Canals and Waterways ...	220,000	133,000	1,000	354,000
Ferries and Landing Stages ...	3,000	114,000	—	117,000
Land Drainage Works (Sluices, &c.) ...	2,000	59,000	3,000	64,000
Cemeteries ...	12,000	178,000	10,000	200,000
Waterworks ...	3,000	12,000	2,000	17,000
Telephonic Lines and Works ...	1,000	4,000	—	5,000
Repairs to Plant, Furniture, Carts, Harness, &c. ...	—	83,000	—	83,000
Shoeing Horses ...	—	9,000	—	9,000
Printing and Bookbinding ...	7,000	—	—	7,000
Other Work Done ...	1,000	2,000	—	3,000
<b>TOTAL VALUE OF WORK DONE ...</b>	<b>2,836,000</b>	<b>12,865,000</b>	<b>1,166,000</b>	<b>16,867,000</b>
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, Tar-macadam, &c. ...				70,000
Clothing ...				37,000
Manures ...				20,000
Grease from Sewage ...				19,000
Furniture ...				18,000
Bread ...				14,000
Mortar ...				12,000
Ice ...				5,000
Other Products ...				15,000
<b>TOTAL VALUE OF GOODS MADE ...</b>				<b>210,000</b>
<b>TOTAL VALUE OF WORK DONE AND GOODS MADE ...</b>				<b>17,077,000</b>



Local Authorities—England and Wales—*continued.*(d) ALL AUTHORITIES—*continued.*

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

						Value.
I.						£
Cost of Materials Used	...	...	...	...	...	7,141,000
II.						
Value of Output :—						
Work Done	...	...	...	...	...	16,867,000
Goods Made	...	...	...	...	...	210,000
TOTAL	...	...	...	...	...	17,077,000
III.						
Value of Output less Cost of Materials Used	...	...	...	...	...	9,936,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
	Wage-earners ... ..	1,912	132,405	134,317	13	598	611	1,925	133,003
Salaried Persons ... ..	250	7,729	7,979	3	91	94	253	7,820	8,073
TOTAL ... ..	2,162	140,134	142,296	16	689	705	2,178	140,823	143,001

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
Authorities using Power... ..	£ 14,711,000	119,141	Horse-Power. 171,455
Authorities not using Power ... ..	2,366,000	23,860	—
Total ... ..	17,077,000	143,001	171,455

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c. ... ..	18,270
Steam Turbines ... ..	845
Other Steam Engines ... ..	118,888
Internal Combustion Engines (gas, oil, &c.) ... ..	23,820
Water Power ... ..	5,462
Electric Motors* ... ..	4,170
Total ... ..	171,455

\* Electric Motors, so far as returned. Particulars as to the capacity of dynamos owned, and as to the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

## LOCAL AUTHORITIES—SCOTLAND.

(a) URBAN AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—	£	£	£	£
Buildings :—				
Private Premises (Residential, Trade, or Business).	—	7,000	—	7,000
Public Premises ... ..	2,000	6,000	—	8,000
TOTAL—Buildings ... ..	2,000	13,000	—	15,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	15,000	332,000	9,000	356,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	2,000	46,000	1,000	49,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	49,000	26,000	1,000	76,000
Public Conveniences ... ..	1,000	2,000	—	3,000
Tramways and Light Railways :—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	48,000	124,000	2,000	174,000
Tramcars ... ..	—	53,000	1,000	54,000
TOTAL—Tramways and Light Railways.	48,000	177,000	3,000	228,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	6,000	72,000	—	78,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties	26,000	44,000	1,000	71,000
Docks (Wet and Dry), including Dock Railways.	2,000	23,000	—	25,000
Harbours, Wharves, and Docks (not separately distinguished).	53,000	57,000	—	110,000
TOTAL—Harbours and Docks ...	81,000	124,000	1,000	206,000
River and Sea Walls, Embankments, and Defences.	2,000	5,000	—	7,000
Canals and Waterways ... ..	—	52,000	—	52,000
Ferries and Landing Stages ... ..	—	8,000	—	8,000
Cemeteries ... ..	—	6,000	3,000	9,000
Repairs to Plant ... ..	—	2,000	—	2,000
Other Work Done ... ..	—	—	1,000	1,000
TOTAL VALUE OF WORK DONE	206,000	865,000	19,000	1,090,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..	...	...	...	3,000
Refuse from Slaughter Houses ... ..	...	...	...	3,000
Manures ... ..	...	...	...	1,000
TOTAL VALUE OF GOODS MADE ... ..	...	...	...	7,000
TOTAL VALUE OF WORK DONE AND GOODS MADE... ..	...	...	...	1,097,000



## Local Authorities—Scotland—continued.

## (a) URBAN AUTHORITIES—continued.

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

					Value.
I.					£
Cost of Materials Used	...	...	...	...	417,000
II.					
Value of Output :—					
Work Done	...	...	...	...	1,090,000
Goods Made	...	...	...	...	7,000
TOTAL	...	...	...	...	1,097,000
III.					
Value of Output less Cost of Materials Used	...	...	...	...	680,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JULY AND OCTOBER, 1907 AND JANUARY AND APRIL, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners	103	8,925	9,028	1	69	70	104	8,994	9,098
Salaried Persons	25	593	618	2	7	9	27	600	627
TOTAL	128	9,518	9,646	3	76	79	131	9,594	9,725

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power...	623,000	5,520	7,073
Authorities not using Power	474,000	4,205	—
TOTAL	1,097,000	9,725	7,073

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c.	963
Other Steam Engines	5,600
Internal Combustion Engines (gas, oil, &c.)	155
Water Power	56
Electric Motors*	299
TOTAL	7,073

\* Electric Motors, so far as returned. Particulars as to the capacity of dynamos owned, and the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

## Local Authorities—Scotland—continued.

## (b) RURAL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—	£	£	£	£
Buildings : Public Premises	—	9,000	—	9,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	2,000	422,000	11,000	435,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	—	2,000	—	2,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	1,000	3,000	—	4,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	—	1,000	—	1,000
Waterworks	—	1,000	—	1,000
Cemeteries	—	10,000	—	10,000
Other Work Done	—	1,000	—	1,000
TOTAL VALUE OF WORK DONE	3,000	449,000	11,000	463,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c.	...	...	...	33,000
Refuse from Slaughter Houses	...	...	...	2,000
TOTAL VALUE OF GOODS MADE	...	...	...	35,000
TOTAL VALUE OF WORK DONE AND GOODS MADE	...	...	...	498,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

					Value.
I.					£
Cost of Materials Used	...	...	...	...	142,000
II.					
Value of Output :—					
Work Done	...	...	...	...	463,000
Goods Made	...	...	...	...	35,000
TOTAL	...	...	...	...	498,000
III.					
Value of Output less Cost of Materials Used	...	...	...	...	356,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JULY AND OCTOBER, 1907, AND JANUARY AND APRIL, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners	19	5,249	5,268	—	1	1	19	5,250	5,269
Salaried Persons	6	295	301	—	4	4	6	299	305
TOTAL	25	5,544	5,569	—	5	5	25	5,549	5,574



Local Authorities—Scotland—*continued.*(b) RURAL AUTHORITIES—*continued.*

TABLE IV.—CAPACITY OF ENGINES OWNED.

## A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ... ..	446,000	4,716	2,293
Authorities not using Power ... ..	52,000	858	—
<b>TOTAL</b> ... ..	<b>498,000</b>	<b>5,574</b>	<b>2,293</b>

## B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c....	2,071
Other Steam Engines ... ..	187
Internal Combustion Engines (gas, oil, &c.)	35
<b>TOTAL</b> ... ..	<b>2,293</b>

NOTE.—Particulars as to the capacity of dynamos owned, and the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

Local Authorities—Scotland—*continued.*

## (c) MISCELLANEOUS AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Total.
Work Done on :—	£	£	£
Buildings :—			
Private Premises (Residential, Trade, or Business)...	—	3,000	3,000
Public Premises ... ..	1,000	14,000	15,000
<b>TOTAL—Buildings</b> ... ..	<b>1,000</b>	<b>17,000</b>	<b>18,000</b>
Highways and Bridges (including Roads, Streets, Foot-paths, and Surface Drains).	—	1,000	1,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	—	1,000	1,000
<b>TOTAL VALUE OF WORK DONE</b> ...	<b>1,000</b>	<b>19,000</b>	<b>20,000</b>
Goods Made, and not included under any of the foregoing headings :—			
Clothing ... ..			1,000
<b>TOTAL VALUE OF WORK DONE AND GOODS MADE</b> ... ..			<b>21,000</b>

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	Value.
I.	£
Cost of Materials Used ... ..	9,000
II.	
Value of Output :—	
Work Done ... ..	20,000
Goods Made ... ..	1,000
<b>TOTAL</b> ... ..	<b>21,000</b>
III.	
Value of Output less Cost of Materials Used ... ..	12,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JULY AND OCTOBER, 1907, AND JANUARY AND APRIL, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ... ..	—	136	136	—	1	1	—	137	137
Salaried Persons ... ..	—	7	7	—	—	—	—	7	7
<b>TOTAL</b> ... ..	<b>—</b>	<b>143</b>	<b>143</b>	<b>—</b>	<b>1</b>	<b>1</b>	<b>—</b>	<b>144</b>	<b>144</b>

TABLE IV.—CAPACITY OF ENGINES OWNED.

No engine-power used.



Local Authorities—Scotland—continued.

(d) ALL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
	£	£	£	£
Work Done on :—				
Buildings :—				
Private Premises (Residential, Trade, or Business).	—	10,000	—	10,000
Public Premises ... ..	3,000	29,000	—	32,000
TOTAL—Buildings ... ..	3,000	39,000	—	42,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	17,000	755,000	20,000	792,000
Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	2,000	48,000	1,000	51,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	50,000	29,000	1,000	80,000
Public Conveniences ... ..	1,000	2,000	—	3,000
Tramways and Light Railways :—				
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	48,000	124,000	2,000	174,000
Tramcars ... ..	—	53,000	1,000	54,000
TOTAL—Tramways and Light Railways.	48,000	177,000	3,000	228,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	6,000	74,000	—	80,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties.	26,000	44,000	1,000	71,000
Docks (Wet and Dry), including Dock Railways.	2,000	23,000	—	25,000
Harbours, Wharves, and Docks, not separately distinguished.	53,000	57,000	—	110,000
TOTAL—Harbours and Docks ...	81,000	124,000	1,000	206,000
River and Sea Walls, Embankments, and Defences.	2,000	5,000	—	7,000
Canals and Waterways ... ..	—	52,000	—	52,000
Ferries and Landing Stages ... ..	—	8,000	—	8,000
Cemeteries ... ..	—	16,000	3,000	19,000
Waterworks ... ..	—	1,000	—	1,000
Repairs to Plant ... ..	—	2,000	—	2,000
Other Work Done ... ..	—	1,000	1,000	2,000
TOTAL VALUE OF WORK DONE	210,000	1,333,000	30,000	1,573,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..	—	—	—	36,000
Refuse from Slaughter Houses ... ..	—	—	—	5,000
Manures ... ..	—	—	—	1,000
Clothing ... ..	—	—	—	1,000
TOTAL VALUE OF GOODS MADE	—	—	—	43,000
TOTAL VALUE OF WORK DONE AND GOODS MADE	—	—	—	1,616,000

Local Authorities—Scotland—continued.

(d) ALL AUTHORITIES—continued.

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	Value.
	£
Cost of Materials Used I. ... ..	568,000
Value of Output :— II.	
Work Done ... ..	1,573,000
Goods Made ... ..	43,000
TOTAL ... ..	1,616,000
Value of Output less Cost of Materials Used III. ... ..	1,048,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN JULY AND OCTOBER, 1907, AND JANUARY AND APRIL, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ... ..	122	14,310	14,432	1	71	72	123	14,381	14,504
Salaried Persons ... ..	31	895	926	2	11	13	33	906	939
TOTAL ... ..	153	15,205	15,358	3	82	85	156	15,287	15,443

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ... ..	1,069,000	10,236	9,366
Authorities not using Power ... ..	547,000	5,207	—
TOTAL ... ..	1,616,000	15,443	9,366

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c. ... ..	3,034
Other Steam Engines ... ..	5,787
Internal Combustion Engines (gas, oil, &c.) ... ..	190
Water Power ... ..	56
Electric Motors* ... ..	299
TOTAL ... ..	9,366

\* Electric Motors so far as returned. Particulars as to the capacity of dynamos owned, and the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.



## LOCAL AUTHORITIES—IRELAND.

(a) URBAN AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.  
Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
	£	£	£	£
Work Done on :—				
Buildings :—				
Private Premises (Residential, Trade, or Business) ... ..	12,000	8,000	1,000	21,000
Public Premises ... ..	10,000	24,000	—	34,000
TOTAL—Buildings ... ..	22,000	32,000	1,000	55,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains). Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	22,000	132,000	84,000	238,000
Sewers and Sewage Disposal Works (in- cluding Drains other than Highway Surface Drains).	4,000	8,000	—	12,000
Tunnels and Subways ... ..	22,000	37,000	—	59,000
Public Conveniences ... ..	—	1,000	—	1,000
Tramways and Light Railways :—	1,000	3,000	—	4,000
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	4,000	15,000	—	19,000
Tramcars ... ..	12,000	17,000	—	29,000
TOTAL—Tramways and Light Railways.	16,000	32,000	—	48,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	2,000	6,000	—	8,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties	27,000	33,000	8,000	68,000
Docks (Wet and Dry) including Dock Railways.	—	3,000	—	3,000
Harbours, Wharves, and Docks, not separately distinguished.	6,000	27,000	—	33,000
TOTAL—Harbours and Docks ...	33,000	63,000	8,000	104,000
River and Sea Walls, Embankments, and Defences.	—	1,000	—	1,000
Canals and Waterways ... ..	—	13,000	9,000	22,000
Ferries and Landing Stages ... ..	—	5,000	—	5,000
Land Drainage Works, Sluices, &c. ...	1,000	—	—	1,000
Cemeteries ... ..	—	2,000	—	2,000
Waterworks ... ..	—	1,000	—	1,000
Reclamation of Waste Land ... ..	4,000	1,000	—	5,000
Repairs to Plant ... ..	—	4,000	—	4,000
Other Work Done ... ..	—	—	1,000	1,000
TOTAL VALUE OF WORK DONE	127,000	341,000	103,000	571,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..	—	—	—	7,000
Slaughter House Refuse and By-products ... ..	—	—	—	1,000
TOTAL VALUE OF GOODS MADE ... ..	—	—	—	8,000
TOTAL VALUE OF WORK DONE AND GOODS MADE ... ..	—	—	—	579,000

## Local Authorities—Ireland—continued.

(a) URBAN AUTHORITIES—continued.

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO  
VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	Value.
	£
I.	
Cost of Materials Used ... ..	211,000
II.	
Value of Output :—	
Work Done ... ..	571,000
Goods Made ... ..	8,000
TOTAL ... ..	579,000
III.	
Value of Output less Cost of Materials Used ... ..	368,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER,  
1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ... ..	87	5,704	5,791	—	10	10	87	5,714	5,801
Salaried Persons ... ..	1	283	284	—	6	6	1	289	290
TOTAL ... ..	88	5,987	6,075	—	16	16	88	6,003	6,091

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT  
AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ... ..	524,000	5,358	15,853
Authorities not using Power ... ..	55,000	733	—
TOTAL ... ..	579,000	6,091	15,853

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c. ... ..	436
Steam Turbines ... ..	880
Other Steam Engines ... ..	14,190
Internal Combustion Engines (gas, oil, &c.) ... ..	192
Water Power ... ..	155
TOTAL ... ..	15,853

NOTE.—Particulars as to the capacity of dynamos owned, and the quantity of electricity generated  
or purchased in connexion with the work included as output, were not required to be stated.



Local Authorities—Ireland—continued.

(b) RURAL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—				
Buildings :—	£	£	£	£
Private Premises (Residential, Trade, or Business)	3,000	—	1,000	4,000
Public Premises ... ..	3,000	3,000	—	6,000
TOTAL—Buildings ... ..	6,000	3,000	1,000	10,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	43,000	626,000	6,000	675,000
Tramways and Light Railways: Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	—	1,000	—	1,000
Harbours and Docks: Harbours, Wharves, Piers, and Jetties.	4,000	2,000	—	6,000
River and Sea Walls, Embankments, and Defences.	—	1,000	—	1,000
Other Work Done ... ..	—	1,000	—	1,000
TOTAL VALUE OF WORK DONE	53,000	634,000	7,000	694,000
Goods Made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..				32,000
TOTAL VALUE OF WORK DONE AND GOODS MADE				726,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	Value.
I.	£
Cost of Materials Used ... ..	149,000
II.	
Value of Output :—	
Work Done ... ..	694,000
Goods Made ... ..	32,000
TOTAL ... ..	726,000
III.	
Value of Output less Cost of Materials Used ... ..	577,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ... ..	102	20,151	20,253	—	40	40	102	20,191	20,293
Salaried Persons ... ..	1	325	326	—	5	5	1	330	331
TOTAL ... ..	103	20,476	20,579	—	45	45	103	20,521	20,624

Local Authorities—Ireland—continued.

(b) RURAL AUTHORITIES—continued.

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ... ..	435,000	11,751	356
Authorities not using Power ... ..	291,000	8,873	—
TOTAL ... ..	726,000	20,624	356

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c... ..	324
Other Steam Engines ... ..	23
Internal Combustion Engines (gas, oil, &c.) ... ..	9
TOTAL ... ..	356

NOTE.—Particulars as to the capacity of dynamos owned, and the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.



## Local Authorities—Ireland—continued.

## (c) MISCELLANEOUS AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Total.
Work Done on :—	£	£	£
Buildings :—			
Private Premises (Residential, Trade, or Business)	3,000	2,000	5,000
Public Premises ... ..	1,000	10,000	11,000
TOTAL—Buildings ... ..	4,000	12,000	16,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains).	1,000	1,000	2,000
Other Work Done ... ..	—	1,000	1,000
TOTAL VALUE OF WORK DONE ... ..	5,000	14,000	19,000
Goods Made, and not included under any of the foregoing headings :—			
Clothing, and Boots and Shoes ... ..			1,000
TOTAL VALUE OF WORK DONE AND GOODS MADE ... ..			20,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	Value.
I.	£
Cost of Materials Used ... ..	11,000
II.	
Value of Output :—	
Work Done ... ..	19,000
Goods Made ... ..	1,000
TOTAL ... ..	20,000
III.	
Value of Output less Cost of Materials Used ... ..	9,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males over 18 years of age.
Wage-earners ... ..	119
Salaried Persons ... ..	8
TOTAL ... ..	127

TABLE IV.—CAPACITY OF ENGINES OWNED.

No engine-power.

## Local Authorities—Ireland—continued.

## (d) ALL AUTHORITIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	Construction.	Alteration, Upkeep, and Repair.	Construction, Alteration, Upkeep, and Repair (not separately distinguished).	Total.
Work Done on :—	£	£	£	£
Buildings :—				
Private Premises (Residential, Trade, or Business).	18,000	10,000	2,000	30,000
Public Premises ... ..	14,000	37,000	—	51,000
TOTAL—Buildings ... ..	32,000	47,000	2,000	81,000
Highways and Bridges (including Roads, Streets, Footpaths, and Surface Drains). Street and Road Lighting (not included in Returns for Gas and Electricity Undertakings).	66,000	759,000	90,000	915,000
Sewers and Sewage Disposal Works (including Drains other than Highway Surface Drains).	4,000	8,000	—	12,000
Tunnels and Subways ... ..	22,000	37,000	—	59,000
Public Conveniences ... ..	—	1,000	—	1,000
Tramways and Light Railways :—	1,000	3,000	—	4,000
Permanent Way, Equipment of Track, Conduits, Overhead Wires, &c.	4,000	16,000	—	20,000
Tramcars ... ..	12,000	17,000	—	29,000
TOTAL—Tramways and Light Railways.	16,000	33,000	—	49,000
Parks, Public Gardens, Recreation Grounds, Commons, and Open Spaces.	2,000	6,000	—	8,000
Harbours and Docks :—				
Harbours, Wharves, Piers, and Jetties	31,000	35,000	8,000	74,000
Docks (Wet and Dry), including Dock Railways.	—	3,000	—	3,000
Harbours, Wharves, and Docks (not separately distinguished).	6,000	27,000	—	33,000
TOTAL—Harbours and Docks ...	37,000	65,000	8,000	110,000
River and Sea Walls, Embankments, and Defences.	—	2,000	—	2,000
Canals and Waterways ... ..	—	13,000	9,000	22,000
Ferries and Landing Stages ... ..	—	5,000	—	5,000
Land Drainage Works, Sluices, &c. ...	1,000	—	—	1,000
Cemeteries ... ..	—	2,000	—	2,000
Waterworks ... ..	—	1,000	—	1,000
Reclamation of Waste Land ... ..	4,000	1,000	—	5,000
Repairs to Plant ... ..	—	4,000	—	4,000
Other Work Done ... ..	—	2,000	1,000	3,000
TOTAL VALUE OF WORK DONE	185,000	989,000	110,000	1,284,000
Goods made, and not included under any of the foregoing headings :—				
Road-metal, Concrete, &c. ... ..				39,000
Clothing, and Boots and Shoes ... ..				1,000
Slaughter House Refuse and By-products ... ..				1,000
TOTAL VALUE OF GOODS MADE ... ..				41,000
TOTAL VALUE OF WORK DONE AND GOODS MADE ... ..				1,325,000



## Local Authorities—Ireland—continued.

(d) ALL AUTHORITIES—continued.

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

					Value.
I.					£
Cost of Materials Used	...	...	...	...	371,000
II.					
Value of Output :—					
Work Done	...	...	...	...	1,284,000
Goods Made	...	...	...	...	41,000
TOTAL	...	...	...	...	1,325,000
III.					
Value of Output less Cost of Materials Used	...	...	...	...	954,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST PAY-DAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
Wage-earners ...	189	25,974	26,163	—	50	50	189	26,024	26,213
Salaried Persons ...	2	616	618	—	11	11	2	627	629
TOTAL ...	191	26,590	26,781	—	61	61	191	26,651	26,842

TABLE IV.—CAPACITY OF ENGINES OWNED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
Authorities using Power ...	959,000	17,109	16,209
Authorities not using Power ...	366,000	9,733	—
TOTAL ...	1,325,000	26,842	16,209

B.—TYPE AND CAPACITY OF ENGINES.

	Horse-Power.
Steam Engines :—	
Road Locomotives, Rollers, &c. ...	760
Steam Turbines ...	880
Other Steam Engines ...	14,213
Internal Combustion Engines (gas, oil, &c.) ...	201
Water Power ...	155
TOTAL ...	16,209

NOTE.—Particulars as to the capacity of dynamos owned, and the quantity of electricity generated or purchased in connexion with the work included as output, were not required to be stated.

## CANAL, DOCK, HARBOUR, AND SIMILAR COMPANIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	United Kingdom.*		
	Works of New Construction.	Works of Maintenance and Repair.	Total.
	£	£	£
Canals and Waterways ...	57,000	295,000	352,000
Docks, Wet and Dry ...	51,000	166,000	217,000
Canals and Docks, not separately distinguished ...	—	28,000	28,000
Harbours, Wharves, Piers, and Jetties... ..	39,000	48,000	87,000
River and Sea Walls, Embankments, and Defences... ..	3,000	13,000	16,000
Warehouses, Offices, &c. ...	8,000	16,000	24,000
Railways :—			
Permanent Way ...	7,000	17,000	24,000
Rolling Stock ...	—	9,000	9,000
Boats, Barges, and Lighters ...	4,000†	42,000	46,000
Tugs and other Vessels ...	—	25,000	25,000
Machinery ...	—	23,000	23,000
Other Work Done and Goods Made ...	3,000	8,000	11,000
TOTAL VALUE ...	172,000	690,000	862,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

					United Kingdom.*
I.					£
Cost of Materials Used	...	...	...	...	282,000
II.					
Value of Output	...	...	...	...	862,000
III.					
Value of Output less Cost of Materials Used	...	...	...	...	580,000

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST WEDNESDAYS IN JANUARY, APRIL, JULY, AND OCTOBER.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
UNITED KINGDOM* :—									
Wage-earners ...	285	6,696	6,981	—	5	5	285	6,701	6,986
Salaried Persons ...	24	336	360	—	1	1	24	337	361
TOTAL ...	309	7,032	7,341	—	6	6	309	7,038	7,347

\* In order to avoid the possible disclosure of particulars relating to certain companies, figures can only be shown for the United Kingdom as a whole.

† The gross tonnage of Boats, Barges, and Lighters built was 860 tons.



Canal, Dock, Harbour, and Similar Companies—*continued.*

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.

## A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
UNITED KINGDOM.*			
Canal, Dock, Harbour, and Similar Companies using Power in connexion with Work shown as Output.	£ 791,000	6,667	Horse-Power. 19,521
Canal, Dock, Harbour, and Similar Companies not so using Power.	71,000	680	—
TOTAL ... ..	862,000	7,347	19,521

## B.—TYPE AND CAPACITY OF ENGINES AND CAPACITY OF DYNAMOS.

	United Kingdom.*
	Horse-Power.
Steam Engines, Reciprocating ... ..	17,183
Internal Combustion Engines (gas, oil, &c.) ... ..	2,293
Water Power ... ..	45
TOTAL ... ..	19,521
	Kilowatts.
Capacity of Dynamos driven by :—	
Steam Engines, Reciprocating ... ..	418
Other Power ... ..	520
TOTAL ... ..	938

## C.—AMOUNT OF ELECTRICITY PURCHASED.

NOTE.—The figure in this Table is given to the nearest thousand.

	United Kingdom.*
	Board of Trade Units.
Amount of Electricity Purchased ... ..	941,000

\* In order to avoid the possible disclosure of particulars relating to certain companies, figures can only be shown for the United Kingdom as a whole.

## TRAMWAY AND LIGHT RAILWAY COMPANIES.

TABLE I.—OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case. Amounts lower than five hundred are not shown.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
I. Permanent Way Department (New Works, Maintenance, and Repairs) :—	£	£	£	£
Permanent Way ... ..	160,000	32,000	37,000	229,000
Electrical or other Mechanical Equipment.	*	*	*	75,000
Stations and Buildings ... ..	*	*	*	4,000
TOTAL—Permanent Way Department	214,000	49,000	45,000	308,000
II. Rolling Stock, etc. :—				
Engines : Construction and Repairs ...	*	*	*	14,000
Cars for Passengers (including Mechanical Equipment) : Construction and Repairs.	*	*	*	271,000
Omnibuses and other Miscellaneous Vehicles for Passengers : Construction and Repairs.	*	*	—	5,000
Wagons and other Vehicles for Goods : Construction and Repairs.	1,000	—	2,000	3,000
Buildings (not returned under Head I.) : New Works, Repairs, and Maintenance.	*	*	—	9,000
TOTAL—Rolling Stock, etc. ... ..	220,000	34,000	48,000	302,000
III. Other Productive Departments :—				
Buildings (not returned under other Heads) : New Works, Repairs, and Maintenance.	2,000	1,000	5,000	8,000
Machinery and Plant (Workshop) : Construction, Repairs, and Maintenance.	*	*	—	7,000
Clothing ... ..	*	*	—	3,000
Printing ... ..	*	*	—	3,000
Other Manufactures or Work Done ...	4,000	—	2,000	6,000
TOTAL—Other Productive Departments	17,000	3,000	7,000	27,000
TOTAL VALUE OF GOODS MADE AND WORK DONE.	451,000	86,000	100,000	637,000

TABLE II.—COST OF MATERIALS USED, SHOWN IN RELATION TO VALUE OF OUTPUT.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
I.	£	£	£	£
Cost of Materials Used ... ..	233,000	42,000	55,000	330,000
II.				
Value of Output ... ..	451,000	86,000	100,000	637,000
III.				
Value of Output less Cost of Materials Used ...	218,000	44,000	45,000	307,000

\* In order to avoid the possible disclosure of particulars relating to certain companies, figures can only be shown for the United Kingdom as a whole.



Tramway and Light Railway Companies—*continued.*

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST WEDNESDAYS IN JANUARY, APRIL, JULY, AND OCTOBER.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
<b>ENGLAND AND WALES:—</b>									
Wage-earners ...	134	2,801	2,935	—	1	1	134	2,802	2,936
Salaried Persons ...	25	186	211	—	7	7	25	193	218
TOTAL ...	159	2,987	3,146	—	8	8	159	2,995	3,154
<b>SCOTLAND:—</b>									
Wage-earners ...	26	557	583	1	1	2	27	558	585
Salaried Persons ...	2	29	31	—	6	6	2	35	37
TOTAL ...	28	586	614	1	7	8	29	593	622
<b>IRELAND:—</b>									
Wage-earners ...	25	677	702	—	—	—	25	677	702
Salaried Persons ...	1	18	19	—	—	—	1	18	19
TOTAL ...	26	695	721	—	—	—	26	695	721
<b>UNITED KINGDOM:—</b>									
Wage-earners ...	185	4,035	4,220	1	2	3	186	4,037	4,223
Salaried Persons ...	28	233	261	—	13	13	28	246	274
TOTAL ...	213	4,268	4,481	1	15	16	214	4,283	4,497

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

NOTE.—The Gross Value of Output in this Table is given to the nearest thousand pounds.

	ENGLAND AND WALES.			SCOTLAND.		
	£	Number of Persons Employed.	Horse-Power.	£	Number of Persons Employed.	Horse-Power.
Tramways and Light Railways using Power.	434,000	3,039	34,576	85,000	612	5,121
Tramways and Light Railways not using Power.	17,000	115	—	1,000	10	—
TOTAL ...	451,000	3,154	34,576	86,000	622	5,121
IRELAND.						
UNITED KINGDOM.						
	£	Number of Persons Employed.	Horse-Power.	£	Number of Persons Employed.	Horse-Power.
Tramways and Light Railways using Power.	85,000	622	6,082	604,000	4,273	45,779
Tramways and Light Railways not using Power.	15,000	99	—	33,000	224	—
TOTAL ...	100,000	721	6,082	637,000	4,497	45,779

Tramway and Light Railway Companies—*continued.*TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED—*continued.*

B.—TYPE AND CAPACITY OF ENGINES AND CAPACITY OF DYNAMOS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Steam Engines: Reciprocating ...	Horse-Power. 32,032	Horse-Power. 5,003	Horse-Power. 4,512	Horse-Power. 41,547
Steam Turbines ...	—	—	1,340	1,340
Internal Combustion Engines (gas, oil, &c.) ...	2,544	118	—	2,662
Water Power ...	—	—	230	230
TOTAL ...	34,576	5,121	6,082	45,779
Capacity of Dynamos driven by:—	Kilowatts.	Kilowatts.	Kilowatts.	Kilowatts.
Steam Engines: Reciprocating...	20,665	1,545	3,300	25,510
Steam Turbines ...	—	—	1,000	1,000
Other Power ...	1,430	68	155	1,653
TOTAL ...	22,095	1,613	4,455	28,163

C.—AMOUNT OF ELECTRICITY PURCHASED.

NOTE.—The figures in this Table are given to the nearest thousand in each case.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Amount of Electricity Purchased ...	Board of Trade Units. 43,416,000	Board of Trade Units. 4,360,000	Board of Trade Units. 1,250,000	Board of Trade Units. 49,026,000



HIS MAJESTY'S POST OFFICE (TELEGRAPH AND TELEPHONE UNDERTAKINGS).

TABLE I.—OUTPUT.

	England and Wales.				Scotland.				Ireland.				United Kingdom.			
	Works of Construction.				Works of Alteration and Repair.				Total Value of Work Done.							
	£	£	£	£	£	£	£	£	£	£	£	£	£	£	£	
Telegraphic Lines and Works ... ..	349,801	42,953	10,499	403,253	350,519	48,722	22,333	421,574	700,320	91,675	32,832	824,827				
Telephonic Lines and Works ... ..	1,179,654	155,800	26,321	1,361,775	226,148	57,080	6,905	290,133	1,405,802	212,880	33,226	1,651,908				
Electric Lines and Works ... ..	17,470	3,392	165	21,027	978	174	75	1,227	18,448	3,566	240	22,254				
Other Works of Construction ... ..	5,106	528	3	5,637	561	33	57	651	5,667	561	60	6,288				
<b>TOTAL ... ..</b>	<b>1,552,031</b>	<b>202,673</b>	<b>36,988</b>	<b>1,791,692</b>	<b>578,206</b>	<b>106,009</b>	<b>29,370</b>	<b>713,585</b>	<b>2,130,237</b>	<b>308,682</b>	<b>66,358</b>	<b>2,505,277</b>				
Total Value of Work Done.																
Telegraphic Lines and Works ... ..	700,320	91,675	32,832	824,827	244,734	2,055	1,383	248,172	84,820	—	9,875	94,695				
Telephonic Lines and Works ... ..	1,405,802	212,880	33,226	1,651,908	17,550	2,900	2,155	22,605	1,890	—	—	1,890				
Electric Lines and Works ... ..	18,448	3,566	240	22,254												
Other Works of Construction ... ..	5,667	561	60	6,288												
<b>TOTAL VALUE OF WORK DONE ... ..</b>	<b>2,130,237</b>	<b>308,682</b>	<b>66,358</b>	<b>2,505,277</b>												
Telegraphic and Telephonic Apparatus, made and repaired.	244,734	2,055	1,383	248,172												
Uniform Clothing, made ... ..	84,820	—	9,875	94,695												
Mail Bags and Parcels Post Receptacles, made ... ..	17,550	2,900	2,155	22,605												
Stationery, made ... ..	1,890	—	—	1,890												
<b>TOTAL VALUE OF GOODS MADE AND REPAIRED</b>	<b>348,994</b>	<b>4,955</b>	<b>13,413</b>	<b>367,362</b>												
<b>TOTAL VALUE OF WORK DONE AND GOODS MADE</b>	<b>2,479,231</b>	<b>313,637</b>	<b>79,771</b>	<b>2,872,639</b>												

TABLE II.—COST OF MATERIALS USED AND AMOUNT PAID TO FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

	England and Wales.				Scotland.				Ireland.				United Kingdom.			
	I.				II.				III.							
	£	£	£	£	£	£	£	£	£	£	£	£	£	£	£	
Cost of Materials Used ... ..	1,757,483	235,161	55,913	2,048,557												
Amount Paid to Firms for Work Given Out to them ... ..	150,042	18,926	295	169,263												
<b>TOTAL ... ..</b>	<b>1,907,525</b>	<b>254,087</b>	<b>56,208</b>	<b>2,217,820</b>												
Value of Output :—																
Work Done ... ..	2,130,237	308,682	66,358	2,505,277												
Goods Made and Repaired ... ..	348,994	4,955	13,413	367,362												
<b>TOTAL ... ..</b>	<b>2,479,231</b>	<b>313,637</b>	<b>79,771</b>	<b>2,872,639</b>												
Value of Output less Cost of Materials Used and Amount Paid to Firms for Work Given Out to them.																
	571,706	59,550	23,563	654,819												

His Majesty's Post Office (Telegraph and Telephone Undertakings)—continued.

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST WEDNESDAYS IN APRIL, JULY, AND OCTOBER, 1907, AND JANUARY, 1908.

	Males.			Females.			Males and Females.		
	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.	Under 18 years of age.	Over 18 years of age.	Total.
<b>ENGLAND AND WALES:—</b>									
Wage-earners ... ..	442	6,958	7,400	—	140	140	442	7,098	7,540
Salaried Persons ... ..	38	1,317	1,355	—	2	2	38	1,319	1,357
<b>TOTAL ... ..</b>	<b>480</b>	<b>8,275</b>	<b>8,755</b>	<b>—</b>	<b>142</b>	<b>142</b>	<b>480</b>	<b>8,417</b>	<b>8,897</b>
<b>SCOTLAND:—</b>									
Wage-earners ... ..	28	671	699	—	6	6	28	677	705
Salaried Persons ... ..	—	88	88	—	—	—	—	88	88
<b>TOTAL ... ..</b>	<b>28</b>	<b>759</b>	<b>787</b>	<b>—</b>	<b>6</b>	<b>6</b>	<b>28</b>	<b>765</b>	<b>793</b>
<b>IRELAND:—</b>									
Wage-earners ... ..	30	378	408	—	5	5	30	383	413
Salaried Persons ... ..	—	68	68	—	—	—	—	68	68
<b>Total ... ..</b>	<b>30</b>	<b>446</b>	<b>476</b>	<b>—</b>	<b>5</b>	<b>5</b>	<b>30</b>	<b>451</b>	<b>481</b>
<b>UNITED KINGDOM:—</b>									
Wage-earners ... ..	500	8,007	8,507	—	151	151	500	8,158	8,658
Salaried Persons ... ..	38	1,473	1,511	—	2	2	38	1,475	1,513
<b>TOTAL ... ..</b>	<b>538</b>	<b>9,480</b>	<b>10,018</b>	<b>—</b>	<b>153</b>	<b>153</b>	<b>538</b>	<b>9,633</b>	<b>10,171</b>

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED.

A.—CAPACITY OF ENGINES OWNED, COMPARED WITH GROSS VALUE OF OUTPUT AND NUMBER OF PERSONS EMPLOYED.

	Gross Value of Output.	Number of Persons Employed.	Total Capacity of Engines.
	£		Horse-Power.
England and Wales ... ..	2,479,231	8,897	7,347
Scotland ... ..	313,637	793	410
Ireland ... ..	79,771	481	92
<b>UNITED KINGDOM ... ..</b>	<b>2,872,639</b>	<b>10,171</b>	<b>7,849</b>



His Majesty's Post Office (Telegraph and Telephone Undertakings)—*continued.*

TABLE IV.—CAPACITY OF ENGINES OWNED AND AMOUNT OF ELECTRICITY PURCHASED—*continued.*

B.—TYPE AND CAPACITY OF ENGINES AND CAPACITY OF DYNAMOS.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Steam Engines, Reciprocating ...	Horse-Power. 7,347	Horse-Power. 410	Horse-Power. 60	Horse-Power. 7,817
Internal Combustion Engines (gas, oil, &c.).	—	—	32	32
<b>TOTAL ... ..</b>	<b>7,347</b>	<b>410</b>	<b>92</b>	<b>7,849</b>
Capacity of Dynamos driven by :—	Kilowatts.	Kilowatts.	Kilowatts.	Kilowatts.
Steam Engines, Reciprocating ...	3,189	163	40	3,392

C.—AMOUNT OF ELECTRICITY PURCHASED.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Amount of Electricity Purchased ...	Board of Trade Units. 154,300	Board of Trade Units. 25,986	Board of Trade Units. 621	Board of Trade Units. 180,907

THE NATIONAL TELEPHONE COMPANY.

TABLE I.—OUTPUT.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
Telephonic Lines and Works :—	£	£	£	£
Construction ... ..	969,161	129,381	30,968	1,129,510
Alteration and Repair ... ..	313,758	49,710	10,806	374,274
<b>TOTAL ... ..</b>	<b>1,282,919</b>	<b>179,091</b>	<b>41,774</b>	<b>1,503,784</b>

TABLE II.—COST OF MATERIALS USED AND AMOUNT PAID TO OTHER FIRMS FOR WORK GIVEN OUT TO THEM, SHOWN IN RELATION TO VALUE OF OUTPUT.

	England and Wales.	Scotland.	Ireland.	United Kingdom.
I.	£	£	£	£
Cost of Materials Used ... ..	711,210	99,928	26,053	837,191
Amount Paid to Other Firms for Work Given Out to them.	143,340	10,370	2,654	156,364
<b>TOTAL ... ..</b>	<b>854,550</b>	<b>110,298</b>	<b>28,707</b>	<b>993,555</b>
II.				
Value of Output ... ..	1,282,919	179,091	41,774	1,503,784
III.				
Value of Output less Cost of Materials Used and Amount Paid to Other Firms for Work Given Out to them.	428,369	68,793	13,067	510,229

TABLE III.—PERSONS EMPLOYED.

AVERAGE NUMBERS AT WORK ON THE LAST WEDNESDAYS IN JANUARY, APRIL, JULY, AND OCTOBER.

	Males.		
	Under 18 years of age.	Over 18 years of age.	Total.
ENGLAND AND WALES :—			
Wage-earners ... ..	277	4,570	4,847
Salaried Persons ... ..	—	788	788
<b>TOTAL ... ..</b>	<b>277</b>	<b>5,358</b>	<b>5,635</b>
SCOTLAND :—			
Wage-earners ... ..	94	952	1,046
Salaried Persons ... ..	—	158	158
<b>TOTAL ... ..</b>	<b>94</b>	<b>1,110</b>	<b>1,204</b>
IRELAND :—			
Wage-earners ... ..	11	145	156
Salaried Persons ... ..	—	33	33
<b>TOTAL ... ..</b>	<b>11</b>	<b>178</b>	<b>189</b>
UNITED KINGDOM :—			
Wage-earners ... ..	382	5,667	6,049
Salaried Persons ... ..	—	979	979
<b>TOTAL ... ..</b>	<b>382</b>	<b>6,646</b>	<b>7,028</b>

TABLE IV.—CAPACITY OF ENGINES OWNED.  
No engine-power.