

WATER UNDERTAKINGS

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

Introductory

The following report relates to returns received from water undertakings (including hydraulic power companies). The particulars given do not cover private waterworks owned by railway companies and other concerns maintaining waterworks solely for their own use nor water undertakings controlled by Government Departments. Details in respect of Water Boards are included throughout this report with those relating to Local Authorities.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of undertakings in Great Britain that employed an average of more than ten persons. The period for which returns were made by Local Authorities in England and Wales was usually the financial year ended 31st March, 1931 or 1925, and in Scotland, the year ended 15th May following.

Particulars	Unit	1930			1924		
		Com-panies	Local Authori-ties	Total	Com-panies	Local Authori-ties	Total
Value of water supplied and work done for consumers (Gross output) ...	£'000	4,444	18,331	22,775	3,779	15,172	18,951
Cost of materials used	"	907	3,596	4,503	885	2,899	3,784
Net output	"	3,537	14,735	18,272	2,894	12,273	15,167
Average number of persons employed	No.	5,917	24,133	30,050	5,420	23,829	29,249
Net output per person employed ...	£	598	611	608	534	515	519
Power available :—							
Prime movers ...	H.P.	73,117	112,042	185,159	58,581	100,498	159,079
Electric motors driven by purchased electricity	"	11,851	29,826	41,677	6,844	11,312	18,156
Number of returns...	No.	80	233	313	82	220	302
Number of establishments ...	"	155	422	577	*	*	*

* Not available.

The gross output figures shown above are made up of the total net selling value of water supplied together with the total amounts charged for work done for consumers; the value of constructional or maintenance work done by employees of Local Authorities or Companies in extending and maintaining the properties of the water

undertaking is excluded (see page 513) and the figures also exclude any work done for consumers for which no charge was made. The figure of cost of materials used, however, includes the materials used in all work carried out by employees of the undertakings, including work involving important extensions of the properties and plant, the cost of which would not necessarily form a charge on the revenue of the censal year; and, as the employees engaged on all such work are included in the recorded aggregates, the numbers of persons employed may be somewhat overstated in relation to the gross output of the year in which the work was done. The selling value of the water being very largely a percentage charge based upon the rateable value of the property concerned, it is not necessarily related precisely to the cost of production, including depreciation and maintenance charges, but may include some allowance for normal capital expenditure. Net output, and net output per person employed, are much affected by the amount of work of new construction carried out in the year, and comparisons between the figures for 1930 and those for 1924 may be affected by these considerations. Comparisons with corresponding figures for other industries are likewise affected.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by water undertakings at which not more than ten persons were employed on the average was 2,627, the corresponding figure for 1924 being 2,863, of which 2,359 were employed at undertakings owned by Local Authorities. The value of the gross output of the small undertakings in 1924 was £1,667,000, of which those owned by Local Authorities recorded £1,364,000. The value of the work of construction, etc., done by these small undertakings on their own properties was £294,000.

In addition, 111 small undertakings to which schedules were sent at the 1930 Census furnished no information.

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

Size of undertaking (average numbers employed)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
11-24 ...	136	1,652	1,211	2,185	554
25-49 ...	75	2,036	1,607	2,634	610
50-99 ...	41	2,234	1,718	2,732	629
100-199 ...	32	3,908	3,159	4,846	652
200-299 ...	12	1,902	1,374	3,019	455
300-749 ...	13	3,888	3,210	5,895	545
750 and over ...	4	7,155	5,993	8,739	686
TOTAL ...	313	22,775	18,272	30,050	608

Regional distribution.—In the following table, which relates to both Local Authorities and Companies, the results recorded at the Censuses of 1930 and 1924 are grouped according to the areas* into which Great Britain has been sub-divided:—

Area	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed	
		£'000	£'000	No.	£	
1 ...	{ 1930	8	5,606	4,933	6,060	814
	{ 1924	26	5,668	4,499	6,835	658
2 ...	{ 1930	47	3,744	3,182	5,732	555
	{ 1924	45	3,243	2,575	5,188	496
3 ...	{ 1930	28	2,359	1,746	3,224	542
	{ 1924	24	2,221	1,715	4,359	393
4 ...	{ 1930	10	1,144	997	1,248	799
	{ 1924	9	861	685	1,143	599
5 ...	{ 1930	18	1,817	1,123	2,673	420
	{ 1924	21	1,573	1,308	2,030	644
6 ...	{ 1930	143	5,602	4,241	7,863	539
	{ 1924	121	3,393	2,733	5,517	495
7 ...	{ 1930	21	897	689	1,165	591
	{ 1924	22	630	495	1,911	259
8 ...	{ 1930	8	68	59	133	446
	{ 1924	10	68	54	214	252
9 ...	{ 1930	9	863	740	993	746
	{ 1924	10	847	729	1,336	546
10 ...	{ 1930	21	675	562	959	586
	{ 1924	14	447	374	716	522
TOTAL	{ 1930	313	22,775	18,272	30,050	608
	{ 1924	302	18,951	15,167	29,249	519

Northern Ireland.—The following table summarises the particulars recorded at the Census of Production taken by the Government of Northern Ireland for 1930, together with those furnished at the 1924 Census. The 1930 figures relate to undertakings that employed an average of more than *five* persons, while those for 1924 relate to all undertakings.

Particulars	Unit	1930	1924
Value of water supplied and work done for consumers (Gross output) ...	£'000	225	226
Cost of materials used ...	"	30	18
Net output ...	"	195	208
Average number of persons employed ...	No.	446	429
Net output per person employed ...	£	437	485
Power available:—			
Prime movers ...	H.P.	228	616
Electric motors driven by purchased electricity	"	90	180

* For particulars see page xviii.

The principal items included in the gross output values shown in the above table were as follows:—

Water supplied and work done for consumers	1930		1924
	Quantity	Value	Value
Water sold to other water undertakings ...	Mill. galls. 76	£'000 1	£'000 1
Water supplied for public purposes (street watering, public baths, etc.)	59	4	3
Water supplied for trade and domestic purposes	8,405	217	216
Water supplied for public and private purposes, not separately distinguished	—	—	5
TOTAL—Water supplied	8,540	222	225*
Laying and fixing pipes, fixing meters and fittings (exclusive of cost of pipes, meters and fittings)	—	3†	1†
TOTAL—Water supplied and work done for consumers	—	225	226

* Undertakings were not required to state compulsorily the quantities of water supplied in 1924, but for 97 per cent. of the total value of water the quantity was returned voluntarily as 8,713 million gallons.

† Amount charged.

The following table shows the value of constructional and repair work carried out by employees of water undertakings in Northern Ireland on reservoirs and other properties:—

Kind of work done	1930	1924
	£'000	£'000
Construction, alteration, maintenance and repair of water-works, including hydraulic power works:—		
Reservoirs, wells, aqueducts, conduits, and trunk, distributing and service mains	58	44
Buildings in connection with above:—		
New construction	2	3
Repairs and renewals	1	
Machinery and plant in connection with above	1	5
Work not separately distinguished	—	3
TOTAL	62	55

Production

Total quantity of water supplied.—The following table shows the quantities of water supplied in 1930 by undertakings covered by this report. This information was not compulsory and was not given by undertakings supplying about 3 per cent. of the total value of the output of water. Estimates in respect of this small deficiency are included in the table.

Water supplied	Companies	Local Authorities	Total
	Mill. galls.	Mill. galls.	Mill. galls.
To other undertakings	1,560	21,619	23,179
For public purposes (e.g. street watering, public baths, etc.)	723	7,236	7,959
For trade and domestic purposes (including municipal trading departments) ...	67,404	344,400	411,804
For purposes not separately distinguished	4,106	32,873	36,979
TOTAL	73,793	406,128	479,921

In the Final Report on the Census for 1924 it was estimated that the total quantity of water supplied in that year by *all* undertakings, including those that employed ten or fewer persons and those in Northern Ireland, was about 490,000 million gallons. The total quantity supplied by the larger undertakings in Great Britain and Northern Ireland in 1930 was 488,461 million gallons; the quantity supplied by all undertakings may be estimated roughly at 530,000 million gallons.

The amounts shown in the above table as supplied "to other undertakings" represent sales for re-distribution and are therefore duplicated in the quantities shown under other headings, except in so far as the water was sold to undertakings employing not more than ten persons. At the 1924 Census it was estimated that inter-sales between water undertakings amounted to about 20,000 million gallons.

Value of water supplied and work done for consumers.—The following table shows the value of water supplied in 1930 and 1924, together with the work done for consumers for which a direct charge was made. The amount shown as the value of water supplied represents the net amount charged less discounts, whether the charge was levied by rate, or as rent, or in any other way. In cases where no separate water rate was levied, the value represents the estimated proportion of the total amount levied by rate which was attributable to the water supply. The figures are exclusive of meter rents and of any sums transferred from local rates in order to make good deficiencies in the income derived from the waterworks.

Water supplied and work done for consumers	1930						1924
	Companies		Local Authorities		Total		Total
	Value	Ent-ries	Value	Ent-ries	Value	Ent-ries	Value
	£'000	No.	£'000	No.	£'000	No.	£'000
Water supplied :—							
Water sold to other water undertakings	54	31	789	103	843	134	748
Water supplied for public purposes (e.g. street watering, public baths, etc.) ...	40	54	317	144	357	198	432
Water supplied for trade and domestic purposes (including municipal trading departments)* ...	3,989	68	15,879	190	19,868	258	17,116
Water supplied for purposes not separately distinguished...	280	12	1,114	42	1,394	54	398
TOTAL	4,363	...	18,099	...	22,462	...	18,694
	Amount charged £'000		Amount charged £'000		Amount charged £'000		Amount charged £'000
Work done for consumers :—							
Laying and fixing pipes, fixing meters and fittings (exclusive of the cost of pipes, meters and fittings)	69	70	208	190	277	260	257
Other work for which a direct charge was made to consumers...	12	19	24	35	36	54	†
TOTAL VALUE—Water supplied and work done for consumers...	4,444	...	18,331	...	22,775	...	18,951

* The words "including municipal trading departments" did not form part of this heading at the 1924 Census. Water supplied to such departments in 1924 may have been in part recorded as *for public purposes*.

† Not recorded separately.

Average value of water supplied.—The average revenue per million gallons supplied to consumers in 1930 by undertakings employing more than ten persons was £46·8, compared with nearly £42 in 1924, indicating an increase of about 11 per cent. in the later year. Water was supplied by Local Authorities at an average of £44·3 per million gallons in 1930, and that supplied by Companies averaged £59·1 per million gallons. The average value at

which water was sold in 1930 for the various purposes specified was as under :—

	By Companies £ per mill. galls.	By Local Authorities £ per mill. galls.
Water sold to other undertakings	34·6	36·4
Water supplied for public purposes	55·5	43·8
Water supplied for trade and domestic purposes	59·2	46·1

Volume of production in 1930 and 1924.—As stated in the preceding paragraph, the average amount charged for water supplied in 1930 was higher by about 11 per cent. than in 1924. The total value of water supplied in the earlier year (£18,694,000) would be equivalent to a sum of about £20,750,000 in terms of 1930 prices, and with the addition of the small amount charged for work done for consumers (£257,000), the total value of the output of water undertakings in 1924 may be estimated at about £21,000,000. The total of £22,775,000 for 1930 represents an increase of about 8 per cent.

Work of construction, maintenance and repair by employees of water undertakings.—The following table shows the value of the chief kinds of constructional, maintenance and repair work carried out in 1930 and 1924 by employees of water undertakings. The amounts shown are made up of the wages of the employees engaged in the work, the cost of materials used and such proportion of the general establishment charges as was estimated to be applicable to the work; interest, sinking fund and other loan charges were excluded.

Kind of work done	Companies		Local Authorities		Total	
	1930	1924	1930	1924	1930	1924
	£'000	£'000	£'000	£'000	£'000	£'000
Work of construction, alteration, maintenance and repair on :—						
Reservoirs, wells, aqueducts, conduits, and trunk, distributing and service mains...	970	764	3,655	3,878	4,625	4,642
Buildings in connection with above :—						
New construction (including enlargement of existing buildings)...	23	71	67	117	90	188
Repairs and renewals ...	54		91		145	
Machinery and plant in connection with above ...	97	120	416	360	513	480
Other work	55	*	40	*	95	*
Unclassified work	29	43	114	390	143	433
TOTAL	1,228	998	4,383	4,745	5,611	5,743

* Not recorded separately.

Employment

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

Persons employed	Males		Females		Total	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
	1930					
Operatives (average for the year)	271	25,012	2	190	273	25,202
Administrative, technical and clerical staff (as at 18th October)	154	4,398	26	450	180	4,848
TOTAL	425	29,410	28	640	453	30,050
1924						
Operatives (average for the year)	383	24,669	3	222	386	24,891
Administrative, technical and clerical staff (as at 18th October)	147	3,987	16	371	163	4,358
TOTAL	530	28,656	19	593	549	29,249

Power

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

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS						
Reciprocating steam engines	92,414	35,045	127,459	96,662	31,923	128,585
Steam turbines	5,708	1,894	7,602	457	1,278	1,735
Internal combustion engines :—						
Gas	8,860	3,936	12,796	9,367	4,893	14,260
Petrol, kerosene, or other light oils ...	2,046	1,361	3,407	1,381	406	1,787
Heavy oils	22,599	7,954	30,553	8,075	1,729	9,804
Water engines	2,829	508	3,337	2,702	206	2,908
Other prime movers ...	5	—	5	—	—	—
TOTAL	134,461	50,698	185,159	118,644	40,435	159,079

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
ELECTRIC GENERATORS						
Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines	1,604	1,387	2,991	755	224	979
Steam turbines	324	4	328	4	—	4
Internal combustion engines :—						
Gas	26	4	30	508	69	577
Petrol, kerosene, or other light oils	116	80	196	44	4	48
Heavy oils	1,782	401	2,183	406	85	491
Water engines	530	311	841	452	—	452
TOTAL	4,382	2,187	6,569	2,169	382	2,551
ELECTRIC MOTORS						
Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Electricity generated in same works ...	4,061	1,709	5,770	3,737	667	4,404
Purchased electricity	27,593	14,084	41,677	9,541	8,615	18,156
TOTAL	31,654	15,793	47,447	13,278	9,282	22,560

Consumption of fuel

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

Kind of fuel used	For power (driving engines)		For other purposes (so far as recorded)*
	Tons	Tons	
Coal... ..	501,893	19,884	
Coke	18,544	6,304	
			B.T.U. (Kw.-hrs.)
Electricity used for all purposes :—			'000
Generated in same works			6,380
Purchased †			49,924
TOTAL—Electricity			56,304

* These figures were recorded in respect of 86·2 per cent. of the net output of all water undertakings, the proportion for Companies being 69·7 per cent. and for Local Authorities 90·1 per cent.

† Including current supplied by an electricity undertaking operated by the Company or Local Authority.

TABLES
COMPANIES

Note.—No water supplied or work done by Companies was recorded for Scotland.

I. Summary of results

Particulars	Unit	England and Wales
Value of water supplied and work done for consumers (Gross output)	£'000	4,444
Cost of materials used	"	907
Net output	"	3,537
Average number of persons employed	No.	5,917
Net output per person employed	£	598
Power available:—		
Prime movers	H.P.	73,117
Electric motors driven by purchased electricity	"	11,851

II. Production

A.—TOTAL QUANTITY OF WATER SUPPLIED

Water supplied	Million gallons
To other undertakings	1,560
For public purposes (e.g., street watering, public baths, etc.) ...	723
For trade and domestic purposes (including municipal trading departments)	67,404
For purposes not separately distinguished	4,106
TOTAL	73,793

B.—VALUE OF WATER SUPPLIED AND WORK DONE FOR CONSUMERS

Water supplied and work done for consumers	Value
Water supplied:—	£'000
To other water undertakings	54
For public purposes (e.g., street watering, public baths, etc.) ...	40
For trade and domestic purposes (including municipal trading departments)	3,989
For purposes not separately distinguished	280
TOTAL	4,363
	Amount charged
Work done for consumers:—	
Laying and fixing pipes, fixing meters and fittings (exclusive of cost of pipes, meters and fittings)	69
Other work for which a direct charge was made to consumers ...	12
TOTAL	81
TOTAL VALUE OF WATER SUPPLIED AND WORK DONE FOR CONSUMERS (GROSS OUTPUT)	4,444

C.—VALUE OF CONSTRUCTION AND REPAIR WORK CARRIED OUT BY EMPLOYEES OF WATER UNDERTAKINGS ON WATERWORKS, BUILDINGS, ETC.

Kind of work done	Value
	£'000
Construction, alteration, maintenance and repair of waterworks, including hydraulic power works:—	
Reservoirs, wells, aqueducts, conduits, and trunk, distributing and service mains	970
Buildings in connection with the above:—	
New construction (including enlargement of existing buildings)...	23
Repairs and renewals	54
Machinery and plant in connection with above	97
Other work	55
Unclassified work	29
TOTAL	1,228

III. Employment

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

Persons employed	Males		Females		Males and females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
Operatives	65	4,710	—	30	65	4,740
Administrative, technical and clerical staff	48	1,083	8	125	56	1,208
TOTAL	113	5,793	8	155	121	5,948

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

Week ended	Males and females	Week ended	Males and females
January 18	4,574	July 19	4,854
February 15	4,503	August 16	4,747
March 15	4,501	September 13	4,774
April 12	4,611	October 18	4,740
May 17	4,670	November 15	4,871
June 21	4,855	December 13	4,804
AVERAGE FOR THE TWELVE MONTHS			4,709

IV. Power

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS

Power equipment	Ordinarily in use	In reserve or idle
PRIME MOVERS		
Reciprocating steam engines	H.P. 24,695	H.P. 17,323
Steam turbines	3,305	1,184
Internal combustion engines :—		
Gas	4,141	1,530
Petrol, kerosene, or other light oils	342	702
Heavy oils	14,189	5,280
Water engines	414	12
TOTAL	47,086	26,031
TOTAL OF PRIME MOVERS INSTALLED	73,117	
ELECTRIC GENERATORS		
Driven by	Kw.	Kw.
Reciprocating steam engines	308	205
Steam turbines	320	4
Internal combustion engines :—		
Gas	14	4
Petrol, kerosene, or other light oils	4	72
Heavy oils	716	386
Water engines	23	9
TOTAL	1,385	680
TOTAL OF ELECTRIC GENERATORS INSTALLED	2,065	
ELECTRIC MOTORS		
Driven by	H.P.	H.P.
Electricity generated in same works	1,838	609
Purchased electricity	7,088	4,763
TOTAL	8,926	5,372
TOTAL OF ELECTRIC MOTORS INSTALLED	14,298	

V. Consumption of fuel

Kind of fuel used	Quantity
	Tons
Coal used for power	138,581
Coke used for power	9,746
	B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—	
Generated in same works	3,733
Purchased	15,158
TOTAL—Electricity	18,891

LOCAL AUTHORITIES

I. Summary of results

Particulars	Unit	England and Wales	Scotland	Great Britain
Value of water supplied and work done for consumers (Gross output) ...	£'000	16,793	1,538	18,331
Cost of materials used	„	3,360	236	3,596
Net output	„	13,433	1,302	14,735
Average number of persons employed ...	No.	22,181	1,952	24,133
Net output per person employed ...	£	606	669	611
Power available :—				
Prime movers	H.P.	109,613	2,429	112,042
Electric motors driven by purchased electricity	„	28,191	1,635	29,826

II. Production

A.—TOTAL QUANTITY OF WATER SUPPLIED

Water supplied	England and Wales	Scotland	Great Britain
	Million gallons		
To other undertakings	20,133	1,486	21,619
For public purposes (e.g. street watering, public baths, etc.)	5,398	1,838	7,236
For trade and domestic purposes (including municipal trading departments)	288,497	55,903	344,400
For purposes not separately distinguished ...	21,247	11,626	32,873
TOTAL	335,275	70,853	406,128

B.—VALUE OF WATER SUPPLIED AND WORK DONE FOR CONSUMERS

Water supplied and work done for consumers	England and Wales	Scotland	Great Britain
	£'000	£'000	£'000
Water supplied :—			
To other water undertakings	754	35	789
For public purposes (e.g. street watering, public baths, etc.)	270	47	317
For trade and domestic purposes (including municipal trading departments)	14,642	1,237	15,879
For purposes not separately distinguished	909	205	1,114
TOTAL	16,575	1,524	18,099
Work done for consumers :—	Amount charged		
Laying and fixing pipes, fixing meters, and fittings (exclusive of cost of pipes, meters and fittings)	195	13	208
Other work for which a direct charge was made to consumers	23	1	24
TOTAL	218	14	232
TOTAL VALUE OF WATER SUPPLIED AND WORK DONE FOR CONSUMERS (GROSS OUTPUT)	16,793	1,538	18,331

C.—VALUE OF CONSTRUCTION AND REPAIR WORK CARRIED OUT BY EMPLOYEES OF WATER UNDERTAKINGS ON WATERWORKS, BUILDINGS, ETC.

Kind of work done	England and Wales	Scotland	Great Britain
	£'000	£'000	£'000
Construction, alteration, maintenance, and repair of waterworks, including hydraulic power works :—			
Reservoirs, wells, aqueducts, conduits, and trunk, distributing and service mains	3,242	413	3,655
Buildings in connection with the above :—			
New construction (including enlargement of existing buildings)	66	1	67
Repairs and renewals	90	1	91
Machinery and plant in connection with above	398	18	416
Other work	40	—	40
Unclassified work	107	7	114
TOTAL	3,943	440	4,383

III. Employment

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

Persons employed	Males		Females		Males and females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
<i>England and Wales :—</i>						
Operatives	206	19,150	2	151	208	19,301
Administrative, etc.*	99	3,059	16	293	115	3,352
TOTAL	305	22,209	18	444	323	22,653
<i>Scotland :—</i>						
Operatives	5	1,670	—	13	5	1,683
Administrative, etc.*	7	256	2	32	9	288
TOTAL	12	1,926	2	45	14	1,971
<i>Great Britain :—</i>						
Operatives	211	20,820	2	164	213	20,984
Administrative, etc.*	106	3,315	18	325	124	3,640
TOTAL	317	24,135	20	489	337	24,624

* Administrative, technical and clerical staff.

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

Week ended	Males and females			Week ended	Males and females		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
Jan. 18 ...	18,422	1,571	19,993	July 19 ...	19,037	1,673	20,710
Feb. 15 ...	18,232	1,643	19,875	Aug. 16 ...	19,129	1,653	20,782
Mar. 15 ...	18,415	1,724	20,139	Sept. 13... ..	19,270	1,770	21,040
April 12 ...	18,505	1,637	20,142	Oct. 18	19,301	1,683	20,984
May 17	18,824	1,601	20,425	Nov. 15... ..	19,164	1,654	20,818
June 21	18,787	1,742	20,529	Dec. 13	18,860	1,616	20,476
AVERAGE FOR THE TWELVE MONTHS					18,829	1,664	20,493

IV. Power

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND
ELECTRIC MOTORS

Power equipment	England and Wales		Scotland		Great Britain	
	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle	Ordinarily in use	In reserve or idle
PRIME MOVERS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines	66,789	16,952	930	770	67,719	17,722
Steam turbines	2,388	710	15	—	2,403	710
Internal combustion engines :—						
Gas	4,649	2,406	70	—	4,719	2,406
Petrol, kerosene, or other light oils	1,641	649	63	10	1,704	659
Heavy oils	8,356	2,532	54	142	8,410	2,674
Water engines	2,141	395	274	101	2,415	496
Other	5	—	—	—	5	—
TOTAL	85,969	23,644	1,406	1,023	87,375	24,667
TOTAL OF PRIME MOVERS INSTALLED	109,613		2,429		112,042	
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines	1,296	1,182	—	—	1,296	1,182
Steam turbines	4	—	—	—	4	—
Internal combustion engines :—						
Gas	12	—	—	—	12	—
Petrol, kerosene, or other light oils	109	8	3	—	112	8
Heavy oils	1,066	15	—	—	1,066	15
Water engines	419	224	88	78	507	302
TOTAL	2,906	1,429	91	78	2,997	1,507
TOTAL OF ELECTRIC GENERATORS INSTALLED	4,335		169		4,504	
ELECTRIC MOTORS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works	2,218	1,092	5	8	2,223	1,100
Purchased electricity	19,772	8,419	733	902	20,505	9,321
TOTAL	21,990	9,511	738	910	22,728	10,421
TOTAL OF ELECTRIC MOTORS INSTALLED	31,501		1,648		33,149	

V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
	Tons	Tons	Tons
Coal used for power	356,442	6,870	363,312
Coke used for power	6,604	2,194	8,798
	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—			
Generated in same works	2,252	395	2,647
Purchased	32,760	2,006	34,766
TOTAL—Electricity	35,012	2,401	37,413