THE ROPE, TWINE AND NET TRADES.

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THE ROPE, TWINE AND NET TRADES.

Introductory.*

The Tables on pages 240 to 243 are based on Returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the manufacture, from textile materials, of ropes, cordage, twines, and nets. The number of such separate Returns was 306. About 80 firms to which schedules were sent did not furnish Returns, but these firms for the most part had very small establishments and they included a number which ceased operations in the course of the censal year. On the basis of the information available it is estimated that they did not employ more than 250 persons and that their net output probably lay between £30,000 and £40,000.

The following table shows the main results of the Censuses of 1924, 1912 and 1907, comparisons between the results for the three years being subject to the qualifications mentioned in the next paragraph:—

Particulars.	Unit.	1924.	1912.	1907.
Value of goods made and work done (Gross output) Cost of materials used Paid for work given out to other firms. Net output Average number of persons employed (excluding outworkers) Net output per person employed (excluding outworkers) Net output per person employed (excluding outworkers) Mechanical power available: Prime movers Electric motors driven by purchased electricity	£'000 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	8,556 5,845 19 2,692 16,712 161 21,486	4,398 3,056 8 1,334 16,403 81 18,661 2,429	3,961 2,881 8 1,072 14,259 75 15,314 (not

Qualifications affecting comparisons.—In considering the above table and the other tables in this Report which show figures for the different censal years, the following qualifications should be borne in mind:—

- (1) The comparability of figures relating to value or cost is affected by the changes which have taken place in the general purchasing power of money.
- (2) The Censuses of 1907 and 1912 covered the whole of Great Britain and Ireland, but that of 1924 applied only to Great Britain and Northern Ireland. The absence of the Irish Free State in 1924 does not, however, seriously affect the comparability

^{*} See also the Notes on pp. vi-xiv.

of the figures, since the scale on which the Rope, Twine and Net Trades were carried on in the Irish Free State in 1926 did not justify the preparation of a separate Report on those trades by the Free State Census Office.

(3) The Censuses of 1907 and 1924 extended to all firms, however small, but in 1912, firms employing not more than five persons (excluding the proprietors) were merely required to state the average number of persons employed by them in the year. According to the information so furnished, the average number of persons employed in the establishments thus excluded was 802 or somewhat under 5 per cent. of the number employed by the remaining firms, as shown in the above table.

Value of output and cost of materials.—The figures in the above table representing the value of goods made and work done are the aggregates of the figures recorded by the firms making Returns, and owing to the duplication involved (see the Notes on pages xi–xiii), they may over-state the value of the output of the Rope, Twine and Net Trades considered as a whole. The matter is discussed on page 235, where it is estimated that the value, free from duplication, of the output of these trades in 1924 lay between £8,107,000 and £8,556,000. The figures in the table representing the cost of materials used may likewise over-state the cost of the materials purchased from sources outside the Rope, Twine and Net Trades and worked up into their products. When the necessary deduction on this account has been made, the cost of such materials used in 1924 may be reduced to a figure of about £5,400,000.

Production.

The detailed information relating to production in 1924 is summarised in Tables IIA and IIB on page 241.

In addition to the goods dealt with in this Report, rope, twine and cordage valued (on a "cost" basis) at £81,000 were produced in 1924 by Government Dockyards, Prisons, and Railway Companies.*

Yarns: Total output.—The bulk of the hemp yarn produced in the United Kingdom is spun by manufacturers of ropes and cordage, for use in their own works, and it is, therefore, convenient to deal in this Report with the hemp spinning trade as a whole.

The following statement shows the total quantity of hemp yarn produced in 1924 and 1912, distinguishing the output returned on schedules for the Rope, Twine and Net Trades from that returned on schedules for other trades. The figures are inclusive of all yarn used by the spinners in their own works as well as yarn sold, or added to

stock, as such. In the Census of 1907, firms were not required to furnish a statement of their total make of yarns, and comparable figures are consequently not available for that year.

		Total make of hemp yarn.				
	Year.	Returned on schedules for the Rope, Twine and Net Trades.	Returned on schedules for other trades.	Total.		
1924 1912		 Tons. 58,960 47,130	Tons. 7,950 31,740	Tons. 66,910 78,870		

The aggregate returned for 1924 (66,910 tons) was composed of 15,260 tons of hemp line yarn and 51,650 tons of hemp tow yarn. Separate particulars for line and tow yarns were not obtained in the Census of 1912.

It appears from the above statement that the total output of hemp yarn in 1924 was less by about 15 per cent. than in 1912, though the quantity spun by manufacturers of ropes and cordage was greater by about 25 per cent. Hemp spinners who were not primarily manufacturers of ropes and cordage produced in 1924 only about one-fourth of the quantity returned by similar firms in 1912. The output of these firms is dealt with in the Report on the Linen and Hemp Trades (pages 151–2).

Exports of hemp yarn in 1924 amounted to 670 tons and net imports to 4,330 tons, the quantity available for use in the United Kingdom in that year thus being 70,570 tons. Of this latter amount, British-spun yarns formed about 94 per cent. Exports and imports of hemp yarn were not separately recorded in 1912 or 1907.

Manufacturers of ropes and cordage also produced *other yarns* (mainly cotton) aggregating 650 tons in 1924 and 1,420 tons in 1912.

Yarns sold or added to stock.—Of the total quantity of 59,610 tons of yarns produced in 1924 by manufacturers of ropes and cordage (58,960 tons of hemp yarn and 650 tons of other yarns) the amount sold or added to stock by these firms was returned as 1,840 tons, valued at £191,000. In 1912, 1,880 tons, valued at £148,000, were sold, or added to stock, as such, the total quantity spun in that year being 48,550 tons. Thus about 97 per cent. of all yarns produced by manufacturers of ropes and cordage was used in their own works in 1924 and about 96 per cent. in 1912. The value of the yarns sold, or added to stock, as such in 1907 was £71,000, but the quantity was not recorded.

Cordage and manufactures thereof.—The output of the principal classes of cordage and manufactures of cordage in 1924, 1912 and 1907 was as shown in the following table. The figures relate to output sold or added to stock and include the amounts returned both on

^{*}The Report on the work done by Public Utility Services (including Government Departments, Railway, Gas and Electricity Companies, etc.) forms part of a separate volume.

schedules for the Rope, Twine and Net Trades and on schedules for other trades.*

Kind of goods.	19	24.	191	12.	19	07.
	Quantity.	Value	Quantity.	Value.	Quantity.	Value.
Cordage, cables, rope and twine: Under \(\frac{1}{2} \) inch diameter:— Of hemp—	Th. cwts.	£'000.	Th. cwts.	£'000.	Th. cwts.	£'000.
Binder and reaper twine Other sorts	358 375 208 78 769 209	983 1,693 1,401 657 2,211 550	$ \begin{cases} 225 \\ 683 \end{cases} $ $ \begin{cases} 1,299 \end{cases} $	360 1,911 2,483	2,113	4,826
Total — Cordage, etc. Nets Other manufactures of cordage	1,997 71 15	7,495 1,031 72	2,207	4,754 524	2,113	4,826 445
Total—Cordage and manufactures thereof	2,083	8,598	10000 0 85. 00	5,278		5,271

In addition, the sum of £24,000, of which £22,000 was returned on schedules for the Rope, Twine and Net Trades, was received in 1924 for the work of fixing and splicing driving ropes. For similar work in 1912 and 1907, sums of £11,000 and £9,000 respectively were recorded.

From the figures given above, it will be seen that between 1912 and 1924 there was an increase of about 59 per cent. in the output of binder and reaper twine, and a decrease of nearly 19 per cent. in the output for sale of cordage of $\frac{1}{4}$ inch diameter and over. The decrease in the make of heavy cordage is probably connected with an increased use of wire ropes and cables.

As regards cordage under $\frac{1}{4}$ inch diameter, any comparison based on output for sale is of doubtful value, since the figures do not take account of the changes which may have occurred in the quantity of cordage made by certain firms and used by them in the manufacture of nets, etc., such cordage being returned by them not as cordage but in its finished form. Information as to the quantities of cordage so used in 1912 and 1924 is not available, but having regard to the fact that the weight of the nets and other manufactures of cordage returned in 1924 was 86,000 cwts., of which, as indicated below, a considerable portion appears to have been made from cordage forming part of the 583,000 cwts. returned in the same year as made for sale, it may be inferred that the total make of cordage under $\frac{1}{4}$ inch diameter was smaller in 1924 than in 1912. It is not

possible to ascertain the change in the output of nets and other manufactures of cordage, since in 1907 and 1912 manufacturers were not required to state the quantities made.

Other products.—In addition to the yarns, cordage and manufactures thereof, firms that made their Returns on schedules for the Rope, Twine and Net Trades reported that they made other goods to the value of £742,000, the largest class among them consisting of wire cables and rope, of which 12,000 tons, valued at £647,000, were made. These goods are dealt with in the Reports on the trades in which they were chiefly made.

Work done for the trade.—Firms making their Returns on schedules for the Rope, Twine and Net Trades reported that they received £8,000 for work done for the trade, but, as the amount paid to other firms for work given out to them was £19,000, the former amount may be partly or wholly duplicated in the value returned for the goods made. The amount returned as received for work done in 1912 was £7,000 but no such work was recorded for 1907.

Value of output free from duplication.—The total value of the output returned on schedules for the Rope, Twine and Net Trades in 1924 was £8,556,000. This total may involve duplication (1) in respect of yarns sold by spinners to other firms in the trade for use in the production of ropes or other goods made from yarn, and (2) in respect of cordage sold by the makers thereof to firms in the trade that produced nets and other goods made from cordage. The maximum amount of duplication under the first heading is £191,000, that being the value of the yarn returned by firms in the Rope, Twine and Net Trades as sold or added to stock. Examination of the individual Returns shows that firms making nets and other goods of cordage, but not themselves making rope or twine, returned an output of £433,000. The cost of the cord or twine used in the manufacture of such goods may be put at £250,000, a figure which measures approximately the maximum amount of duplication included in the output value of the trade in this connection. In addition, the value of the work done for the trade (£8,000) may be partly or wholly duplicated in the value returned for goods made. Allowing for these items, the value of the output in 1924 may therefore be estimated as lying between £8,107,000 and £8,556,000 free from duplication. For 1907 the value of the output returned on schedules for the Rope, Twine and Net Trades was estimated as lying between £3,916,000 and £3,961,000, free from duplication.

Cost of materials and work given out.—The cost of materials used by firms making their Returns on schedules for the Rope, Twine and Net Trades was returned as £5,845,000 in 1924, a sum which, by the exclusion of purchases of the products of other firms in the same trades, may be reduced by as much as £441,000 to £5,404,000; the corresponding net figure for 1907 lay between £2,836,000 and £2,881,000.

^{*} Including the Canvas Goods and Sack Trades, the Report on which forms part of a separate volume.

The amount paid to other firms for work given out to them was returned as £19,000 in 1924, £8,000 in 1912 and £8,000 in 1907.

Net output.—The net output in 1924 of the firms making their Returns on schedules for the Rope, Twine and Net Trades (whose gross output was valued at £8,556,000) was £2,692,000, that sum representing, without duplication, the total amount by which the value (at factory) of the aggregate output exceeded the cost (at factory) of the materials used and the amount paid to other firms for work given out to them.

The net output per head of persons employed (excluding outworkers) in the censal year 1924 was £161, as compared with £81 in 1912 and £75 in 1907.

Exports and imports.—The following table, relating to the years 1924 and 1912, shows the production of certain of the main classes of cordage, cables, etc., and manufactures thereof, in relation to the exports and imports of similarly described goods, and allows of a limited degree of comparison between the particulars for the two years. The figures of exports shown for 1924 are exclusive of exports to the Irish Free State; these were 6,000 cwts. of binder and reaper twine, 12,000 cwts. of other cordage under $\frac{1}{4}$ inch diameter, and 14,000 cwts. of cordage of $\frac{1}{4}$ inch diameter and over. There were practically no imports from the Irish Free State in that year.

Service and the service of the servi				1000 11	Luit	y cui.	
Kind of goods.	Pro- duction for sale.	Exports.	Exports as per-centage of production for sale.	Net imports.	Available for consumption in the United Kingdom.		of home t held by
on bacticka (anivi) in oper	Quan- tity.	Quan- tity.		Quan- tity.	Quan- tity.	British- made goods.	Im- ported goods.
1924. Cordage, cables, ropes and twine, of hemp or like materials:— Under \(\frac{1}{2} \) inch diameter— Binder and reaper twine (of	Th. cwts.	Th. cwts.	Per cent.	Th. cwts.	Th. cwts.	Per cent.	Per cent.
hemp) Other cordage, etc., under	358	113	31.6	104	349	70.2	29.8
of 1 inch diameter and over Manufactures of cordage:—	583* 1,056	115 187	19·7 17·7	65 20	889	97.8	2:2
Nets	71	19	26.8	7	59	88-1	11.9
1912. Cordage, cables, ropes and twine, of hemp or like materials:—Binder and reaper twine (of			Andrew Tracks		# 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
hemp)	225	57	25.3	93	261	64.4	35.6
Cordage, etc., of 1 inch diam-	683*	138	20.2	95		sin ,	Streets
eter and over	1,299	287	22 · 1	25	1,037	97.6	2.4

^{*} Exclusive of cordage used for making nets, etc.

While in the case of binder and reaper twine and (perhaps less certainly) in the case of cordage of 1 inch diameter and over, the figures given in the table may be regarded as adequately representing the position in 1924 and 1912, the figures relating to cordage under h inch diameter (other than binder and reaper twine) are, for the reasons already explained, a less reliable foundation for inferences. On the basis of the amounts produced for sale, the quantities of such cordage available for consumption in the United Kingdom were 533,000 cwts. in 1924 and 640,000 cwts. in 1912, o each of which amount must be added the quantity of cordage which was used directly for making nets and other manufactures and was thus not recorded in the output of cordage. In view of what has been stated above as to the probable quantity of cordage so used in 1924, it seems clear that the total amount of this class of cordage available for consumption in 1924 was smaller than the corresponding quantity for 1912, but it is not possible, from the data available, to calculate percentages showing the share of the home market held respectively by British-made and imported cordage of this kind in the two years. The figures indicate, however, that imported cordage represented not more than 12 per cent. of the available supply in 1924 and not more than 15 per cent. in 1912. The consumption of binder and reaper twine in the United Kingdom increased by over 30 per cent. in 1924 as compared with 1912, and British-made goods represented a larger proportion of the consumption. The consumption of cordage of 1 inch diameter and over in Great Britain and Northern Ireland in 1924 showed a decline of over 14 per cent. as compared with the consumption in Great Britain and Ireland in 1912.

Wages in 1924.

Under the Census of Production Act, 1906, the powers of the Board of Trade to require information do not extend to particulars of the amount of wages paid, and, consequently, no information on this head was secured in connexion with the Census of 1924. As a result, however, of the voluntary enquiry undertaken by the Ministry of Labour into wages and hours in the United Kingdom in 1924, information was obtained as to the total wage-bill of a group of firms in the Rope, Twine and Net Trades which made returns both to the Ministry of Labour and to the Census of Production office. According to the Census records, this group of firms employed, in the week ended 18th October, 1924, 10,898 operatives or 73 per cent. of the total of 14,965 operatives for the trades as a whole, and their net output totalled £1,946,000 or 72 per cent. of the aggregate net output of £2,692,000 for the trades as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £824,000, representing about 42 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on pages 242–3. The following table sets out certain particulars for that year, together with those relating to the two previous censal years. For the purpose of this comparison, the average numbers of operatives of each sex returned for 1924 have been divided between the two age-groups in the proportion shown by the data relating to the week ended 18th October.

Average number	M	ales.	Fer	males.	Males and females.	
(excluding outworkers).	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
1924. Operatives	1,475 78	5,501 1,026	2,470 63	9,774 411	3,945 141	15,275 1,437
TOTAL	1,553	6,527	2,533	10,185	4,086	16,712
Wage earners	2,305 125	6,592 952	2,203 47	8,669 190	4,508 172	15,261 1,142
TOTAL	2,430	7,544	2,250	8,859	4,680	16,403
Wage earners	2,088 94 2,182	6,171 791 6,962	1,763 39 1,802	7,152 145 7,297	3,851 133 3,984	13,323 936
Average number of outworkers:		0,002	1,002	7,207	0,364	14,259
1924	7	5 2 6	1,	961 ,393 714	1,	976 465 760

The numbers of operatives recorded month by month in 1924 ranged from 336 above the average, in March, to 469 below the average, in September (see Table III.B, p. 242.)

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV, p. 243. The following table sets out the particulars for the three censal years relating to the capacity and kinds of *prime movers* and the capacity of *electric generators* installed.

- CTO TO BERNING TO THE STATE OF THE STATE O		1924.		1912.	1907.
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.	Total.
PRIME MOVERS:— Reciprocating steam engines Steam turbines Gas engines Petrol and light oil engines Heavy oil engines Water power	H.P. 10,987 1,250 5,853 63 860 161	H.P. 1,473 — 539 — 260 40	H.P. 12,460 1,250 6,392 63 1,120 201	H.P. 12,756 4,522 } 1,278 105	H.P. 11,132 400 3,767
	19,174	2,312	21,486	18,661	15,314

	17030	1924.		1912.	1907.
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.	Total.
	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by— Reciprocating steam engines Steam turbines Gas engines Petrol and light oil engines Heavy oil engines Water power	679 1,000 1,240 — 34 18	274 ————————————————————————————————————	953 1,000 1,380 — 34 47	440 — } 271	551 — 24
TOTAL	2,971	443	3,414	711	575

The capacity of *electric motors* installed in 1924 and in 1912 was as shown below:—

The second secon		1912.		
Electric motors.	Ordinarily in use.	In reserve or idle.	Total.	Total.
188 8 888 4 1 120 X 1 000 5 1	H.P.	H.P.	H.P.	H.P.
Driven by— Electricity generated in own works Purchased electricity	3,427 8,924	392 1,791	3,819 10,715	690 2,429

Corresponding information was not required for 1907. The total number of Board of Trade units of electricity purchased for power and lighting purposes in that year was returned as 997,000.

Machinery Equipment.

In response to a request for voluntary information as to the number of spinning and doubling spindles at rope and cordage-making factories, firms which produced 30,500 tons of hemp yarn and 783,000 cwts. of hemp ropes and cordage (about 46 per cent. and 52 per cent. respectively of the total quantities produced in the year by all firms) returned the following particulars relating to the end of the year 1924:—

	In use.	Idle.	Total.
Spinning spindles for hemp	12,854	4,738	17,592
Doubling spindles for hemp	7,170	2,023	9,193

II.—Production.

A.—TOTAL MAKE OF YARNS.

Kind of yarns.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Hemp yarns Other yarns (mainly cotton)	Tons. 48,160	Tons. 10,800 †	Tons. 58,960 650

* See Footnote to Table I.

B.—Output sold or added to stock and work done FOR THE TRADE.

Kind of goods made and work done.		Unit.	England and Wales and N. Ireland.†	Scotland.	United Kingdom.
Yarns	{	Tons £'000	1,350 89	490 102	1,840 191
Cordage, cables, rope and twine, hemp and like materials: Under 1 inch diameter Of 1 inch diameter and over	of {	Th. cwts. £'000 Th. cwts. £'000	738 3,135 732 2,518	88 400 277 7 64	826 3,535 1,009 3,282
Total—Cordage, etc.	{	Th. cwts. £'000	1,470 5,653	365 1,164	1,835 6,817
Manufactures of cordage: Nets		Th. cwts.	48 483 * * * * * * * 11 22 ‡ 6 ‡	14 236 * * * * * * * * * * * * * * *	62 719 13 57 12 647 33 51 11 22 1
Total value of goods MA and work done (Gross output	The state of the s	£'000	7,021	1,535	8,556

TABLES.

I.—Summary of results.

Particulars.	Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Value of goods made and work done (Gross output)	€,'000	7,021	1,535	0.550
Paid for work given out to other firms	,,	4,825	1,020	8,556 5,845 19
Net output Average number of persons employed (excluding outworkers)	"	2,180	512	2,692
outworkers)	No.	13,557	3,155	16,712
Mechanical power available :— Prime movers	£	161	162	161
Electric motors driven by purchased electricity	H.P.	15,914	5,572	21,486
•• 300000000000000000000000000000000000	,,	9,260	1,455	10,715

^{*} In order to avoid the disclosure of information relating to individual firms, the figures for Northern Ireland have been combined with those for England and Wales.

[†] In order to avoid the possible disclosure of information relating to individual firms, figures can only be given for the United Kingdom as a whole.

[†] See Footnote to Table I.

* In order to avoid the possible disclosure of information relating to individual firms, figures can only be given for the United Kingdom as a whole.

§ Less than £500.

† Amount received for work done.

III.—Employment.

A.—Numbers employed in week ended 18th October 1924 (Excluding outworkers).

Kind of staff.	Ma	Males.		Females.		Males and females.	
And of State.	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.	
England and Wales and Northern Ireland † :— Operatives					PALLA PALLAMENTA		
Administrative, etc.*	0-	4,472 852	1,884	7,561 334	3,105 118	12,033 1,186	
TOTAL	1,286	5,324	1,937	7,895	3,223	13,219	
Scotland:— Operatives Administrative, etc.*	248	1,002 174	513 10	1,930 77	761 23	2,932 251	
TOTAL	261	1,176	523	2,007	784	3,183	
United Kingdom:— Operatives	1,469 78	5,474 1,026	2,397 63	9,491 411	3,866 141	14,965 1,437	
TOTAL	1,547	6,500	2,460	9,902	4,007	16,402	

^{*} Administrative, technical and clerical staff.

B.—Operatives employed in one week in each month of 1924 (excluding outworkers).

England and Wales and Northern Ireland * (Annual average: Males, 4,503; Females, 7,868: Total, 12,371.)

Week ended. Males.		Females. Total.		Week ended.	Males.	Iales. Females.	
Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st	4,480 4,498 4,563 4,534 4,581 4,540	7,863 8,067 8,196 7,943 7,933 7,914	12,343 12,565 12,759 12,477 12,514 12,454	July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th	4,455 4,508 4,513 4,472 4,449 4,439	7,933 7,944 7,389 7,561 7,860 7,819	Total. 12,388 12,452 11,902 12,033 12,309 12,258

Scotland. (Annual	average:	Males,	998; Females, 1	,906 ; To	otal, 2,90	4.)
an. 12th Teb. 16th March 15th April 12th May 17th Une 21st	931 965 990 1,008 1,018	1,695 1,808 1,862 1,888 1,903	2,626 2,773 2,852 2,896	July 19th		1,849 1,857 1,898 1,930 2,053	2,847 2,851 2,904 2,932 3,077

Asset 18	1 1,014	1,903 2	,919 Dec. 13th	1,030	2,224	3,254
United Kingdon	n. (Annua	al average:	Males, 5,501;	Females, 9,77	4; Total.	15.275.)
Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st	5,411 5,463 5,553	9,558 14 9,875 15 10,058 15 9,831 15 9,836 15	,969 July 19th ,338 Aug. 16th ,611 Sept. 13th ,373 Oct. 18th ,435 Nov. 15th ,373 Dec. 13th	h 5,453 h 5,502 h 5,519 h 5,474 h 5,473	9,782 9,801	15,235 15,303 14,806 14,965 15,386 15,512

^{*} See Footnote to Table I.

C.—Number of outworkers at two specified periods in 1924.

Country.		January.		July.		
	Males.	Females.	Total.	Males.	Females.	Total.
England and Wales* Scotland	7 8	896 58	903 66	7 7	882 87	889 94
United Kingdom	15	954	969	14	969	983

^{*} No outworkers were returned for Northern Ireland.

IV.—Mechanical Power.

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS.

Power equipment.	England and Wales and Northern Ireland,*		Scotl	and.	United Kingdom.		
	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	7,709	893	3,278	580	10,987	1,473	
Steam turbines Gas engines	5,535	514	1,250 318	25	1,250 5,853	539	
Petrol and light oil engines	62		. 1	abrog.	63		
Heavy oil engines Water power	860	260	80.	40	860 161	260	
TOTAL	14,247	1,667	4,927	645	19,174	2,312	
TOTAL OF PRIME MOVERS INSTALLED	15,914		5,572		21,486		
ELECTRIC GENERATORS :— Driven by—	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
Reciprocating steam engines	355	188	324	86	679 1,000	274	
Steam turbines Gas engines	1,240	140	1,000		1,240	140	
Heavy oil engines Water power	34	_	18	29	34 18	29	
TOTAL	1,629	328	1,342	115	2,971	443	
Total of electric generators installed	1,957		1,457		3,414		
ELECTRIC MOTORS:— Driven by—	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Electricity generated in own works Purchased electricity	1,973 7,755	371 1,505	1,454 1,169		3,427 8,924	392	

^{*} See Footnote to Table I.

[†] See Footnote to Table I.