

THE ROPE, TWINE AND NET TRADE.

Note.—For information regarding the scope of the Census, instructions given to firms 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.

This trade comprises firms that were engaged wholly or mainly in the manufacture of ropes, cordage, twine and nets of hemp, cotton, jute, etc.

The following table shows the main results of the Censuses of 1930 and 1924 in respect of firms in Great Britain that employed an average of more than 10 persons :—

Particulars.	Unit.	1930.	1924.
Value of goods made and work done (Gross output)	£'000	6,229	7,433
Cost of materials used	"	4,163	5,071
Paid for work given out to other firms	"	6	18
Net output	"	2,060	2,344
Average number of persons employed (excluding outworkers)... ..	No.	14,801	13,617
Net output per person employed (excluding outworkers)	£	139	172
Mechanical power available :—			
Prime movers	H.P.	15,856	17,105
Electric motors driven by purchased electricity...	"	13,703	10,141
Number of returns	No.	152	157
Number of establishments	"	175	*

* Not available.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than 10 persons on the average was 850; the corresponding figure for 1924 cannot be stated, but the total number of persons employed in 1924 by small firms in Great Britain and by the few firms in Northern Ireland whose output, though large, cannot be stated separately, was 3,095. The value of the gross output of the small firms and of firms in Northern Ireland in 1924 was

£1,123,000, and particulars of the classes of goods included in this figure are given below :—

Cordage, cables, ropes and twine, of hemp, &c. :—		Th. cwts.	£'000.
Under ¼ inch diameter	...	166	679
Of ¼ inch diameter and over	...	110	306
Nets	...	13	93
Other goods made and work done	...	...	45
TOTAL	...	...	1,123

In addition, 23 firms to which schedules were sent at the 1930 Census, and 80 at that of 1924, furnished no information; these firms either had small businesses or had ceased productive operations before the end of the censal year.

Sub-divisions of the trade.—The firms that made their returns for 1930 on schedules for the Rope, Twine and Net Trade fall into one of two groups, according to whether they were engaged primarily in the manufacture of (a) cordage, ropes, etc.; or (b) nets. The following table summarises the chief particulars recorded in respect of these two groups :—

Particulars.	Unit.	Firms engaged mainly in the manufacture of		Total.
		Cordage, ropes, etc.	Nets.	
Value of goods made and work done (Gross output)	£'000	5,176*	1,053†	6,229
Net output	"	1,658	402	2,060
Average number of persons employed (excluding outworkers)	No.	11,111	3,690	14,801
Net output per person employed (excluding outworkers)	£	149	108	139
Number of returns	No.	99	53	152

* Consisting of cordage, ropes, etc., £4,379,000; nets, £39,000; other goods and work done, £758,000.

† Consisting of cordage, ropes, etc., £66,000; nets, £979,000; other goods and work done, £8,000.

It will be seen from the above particulars that the value of cordage, ropes, etc., recorded by firms mainly engaged in the manufacture of these goods represented 84.6 per cent. of the gross output value of this group of firms and 98.5 per cent. of the total value of cordage, ropes, etc., returned by all firms in the Rope, Twine and Net Trade of Great Britain. Similarly, with regard to the net-making group, the value of nets made by firms in the

group represented 93.0 per cent. of the gross output value of the group and 96.2 per cent. of the total value of nets returned by all firms in the trade.

Size of firms.—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 firm (average numbers employed).	No. of returns.	Gross output.	Net output.	Average number of persons employed (excluding outworkers).	Net output per person employed
		£'000	£'000		£
11-24	40	228	77	666	116
25-49	34	419	147	1,227	119
50-99	41	1,023	351	2,821	124
100-199	20	1,158	379	2,932	129
200-299	10	1,070	372	2,575	145
300 and over	7	2,331	734	4,580	160
TOTAL	152	6,229	2,060	14,801	139

Regional distribution.—In the following table the results recorded at the Censuses of 1930 and 1924 are grouped according to the principal areas* of Great Britain in which firms in this trade are situated :—

Area.	No. of returns.	Gross output.	Net output.	Average number of persons employed (excluding outworkers).	Net output per person employed.
		£'000	£'000		£
1 ... { 1930	11	639	263	1,139	231
... { 1924	15	885	290	1,426	203
2 ... { 1930	41	1,484	443	3,462	128
... { 1924	42	2,146	517	3,196	162
3 ... { 1930	9	229	70	559	125
... { 1924	6	145	36	329	109
4, 5, 7 and 8 ... { 1930	10	1,340	382	2,389	160
... { 1924	14	1,832	698	3,109	225
6 ... { 1930	41	887	330	2,697	122
... { 1924	39	973	301	2,499	120
9 ... { 1930	19	1,064	407	2,606	156
... { 1924	21	816	292	1,652	177
10 ... { 1930	21	586	165	1,949	85
... { 1924	20	696	210	1,406	149
TOTAL ... { 1930	152	6,229	2,060	14,801	139
... { 1924	157	7,433	2,344	13,617	172

* For particulars see page xviii.

Production.

Total make of hemp yarns.—Firms that made their returns on schedules for the Rope, Twine and Net Trade were required to state the total quantity of hemp yarns spun by them in the year, irrespective of whether these yarns were used in the manufacture of ropes, etc., by the firms spinning them or were sold to other firms. The particulars furnished for 1930 are summarised below. No information regarding the output, etc., of firms in Northern Ireland in 1930 is available for publication, and the particulars which follow relate, in consequence, only to firms in Great Britain.

Kind of yarns.	Returned on schedules for		Total.
	The Rope, Twine and Net Trade.	Other trades.	
	Cwts.	Cwts.	Cwts.
Hemp line yarns :—			
Manila and other hard hems	848,100	310	848,410
Italian, Russian and other soft hems ...	32,220	20,320	52,540
TOTAL—Hemp line yarns ...	880,320	20,630	900,950
Hemp tow yarns :—			
Manila and other hard hems	78,460	760	79,220
Italian, Russian and other soft hems ...	68,920	36,460	105,380
TOTAL—Hemp tow yarns ...	147,380	37,220	184,600

Allowing for a small quantity of unclassified hemp yarns that were returned by value only, the total make of hemp yarns in Great Britain in 1930 was about 1,087,000 cwts.

Owing to the risk of disclosure of information relating to the business of one large firm in Northern Ireland, the output of hemp yarns in Great Britain in 1924 cannot be stated separately. The total quantity of hemp yarns spun in that year by all firms in the United Kingdom was 1,338,200 cwts., of which 1,033,000 cwts. consisted of line yarns and 305,200 cwts. of tow yarns.

Principal products.—The following table shows the value and, where available, the quantity of cordage, cables, rope, twine, nets, etc., made in 1930 and 1924 for sale. The particulars shown relate to production in Great Britain only.

Kind of goods.	1930.						1924.	
	Returned on schedules for						Total.	
	The Rope, Twine and Net Trade.			All trades.				
Quantity.	Value.	Ent-ries.	Quantity.	Value.	Ent-ries.	Quantity.	Value.	
	Th. cwts.	£'000.	No.	Th. cwts.	£'000.	No.	Th. cwts.	£'000.
Cordage, cables, ropes and twine :—								
Under ¼ inch diameter :—								
Of hemp :—								
Binder and reaper twine	148·1	359	9	148·1	359	9	281·4	756
Other sorts :—								
Of Manila and other hard hems ...	155·7	436	28	155·7	436	28	} 291·0	1,273
Of Italian and other soft hems ...	109·1	491	68	112·7	514	76		
Of cotton ...	112·8	698	45	113·4	702	46	} 195·8	1,317
Of jute ...	34·7	94	30	80·9	216	38		
Of flax and other materials (including mixtures) ...	10·6	39	13	13·3	63	22		
TOTAL — Cordage, etc., under ¼ inch diameter ...	571·0	2,117	...	624·1	2,290	...	768·2	3,346
Of ¼ inch diameter and over :—								
Of hemp :—								
Of Manila and other hard hems ...	693·5	1,619	42	693·7	1,620	43	} 678·2	1,969
Of Italian and other soft hems ...	67·3	259	37	67·3	259	38†		
Of cotton ...	47·4	288	34	47·4	288	34	} 72·3	623
Of jute ...	57·9	117	27	67·1	128	30		
Of flax and other materials (including mixtures) ...	16·1	45	18	40·0	53	20	} 192·0	509
TOTAL — Cordage, etc. of ¼ inch diameter and over	882·2	2,328	...	915·5	2,348	...			942·5	3,101
TOTAL — CORDAGE, CABLES, ROPES AND TWINE, OF HEMP, ETC. ...	1,453·2	4,445	...	1,539·6	4,638	...	1,710·7	6,447

Kind of goods.	1930.						1924.	
	Returned on schedules for						Total.	
	The Rope, Twine and Net Trade.			All trades.				
	Quantity.	Value.	Ent-ries.	Quantity.	Value.	Ent-ries.	Quantity.	Value.
Th. cwts.	£'000.	No.	Th. cwts.	£'000.	No.	Th. cwts.	£'000.	
Manufactures of cordage :—								
Nets of hemp	55.7	410	46	55.7	410	46	55.9	865
Nets of cotton	16.1	310	25	16.3	332	26		
Nets of flax	1.6	107	5	1.6	107	6†		
Not separately distinguished...	—	—	—	*	86	4		
TOTAL—NETS	73.4	827	...	73.6	849	...	55.9	865
Other manufactures (hammocks, etc.)	...	6	5	...	14	9	...	60
TOTAL VALUE—PRINCIPAL PRODUCTS...	...	5,469	...	...	5,778	...	...	7,372

* Weight not stated.

† The amount returned on schedules for other trades was very small.

Note.—Sales of hemp yarns are dealt with in the report on the Linen and Hemp Trade (page 140).

Prices.—The average selling values of certain classes of cordage, ropes, etc., made in Great Britain in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind, however, that these comparisons do not take account of any changes that may have occurred since the earlier year in the quality or type of goods included under the specified descriptions.

Kind of goods.	Average value.		1930 as a percentage of 1924.
	1930.	1924.	
Cordage, cables, ropes and twine, of hemp or like materials :—	£ per cwt.	£ per cwt.	Per cent.
Under ¼ inch diameter :—			
Of hemp :—			
Binder and reaper twine ...	2.42	2.68	90.3
Other sorts :—			
Of Manila and other hard hems ...	2.80	3.54	81.0
Of Italian and other soft hems ...	4.56		
Of cotton ...	6.19	4.73	70.4
Of jute ...	2.67		
Of flax and other materials (including mixtures) ...	4.75		
Of ¼ inch diameter and over :—			
Of hemp :—			
Of Manila and other hard hems	2.34	2.47	85.2
Of Italian and other soft hems	3.84		
Of cotton ...	6.07	8.60	70.6
Of jute ...	1.91	1.69	63.8
Of flax and other materials (including mixtures) ...	1.33		
Manufactures of cordage :—			
Nets of hemp ...	7.36	11.64	75.1
Nets of cotton ...	19.19		
Nets of flax ...	65.71		

Volume of production in 1930 and 1924.—The following table compares the volume of production of cordage, ropes, etc., of hemp or like materials, in Great Britain in 1930 and 1924 :—

Kind of goods.	Total production.			1930 as a percentage of 1924.
	1930.	1924.		
	As returned.	As returned.	At 1930 average values.	
Cordage, cables, ropes and twine, of hemp or like materials :—	£'000	£'000	£'000	Per cent.
Under ¼ inch diameter :—				
Of hemp :—				
Binder and reaper twine	359	756	683	53
Other sorts ...	950	1,273	1,031	92
Of other materials ...	981	1,317	927	106
Of ¼ inch diameter and over :—				
Of hemp ...	1,879	1,969	1,678	112
Of cotton ...	288	623	440	65
Of other materials ...	181	509	325	56
Manufactures of cordage :—				
Nets ...	1,126	865	650	173
Other manufactures (hammocks, etc.) ...	14	60	49*	29
TOTAL ...	5,778	7,372	5,783	100

* Based on average value of hemp cordage under ¼ inch diameter.

Exports and imports.—Comparison between production and overseas trade in hemp yarns and in cordage, ropes, etc., and manufactures thereof is rendered impracticable by the absence of information regarding the output in 1930 of firms in Northern Ireland.

The following table shows the quantity of hemp yarns, cordage, ropes, etc., exported from the United Kingdom in 1930 and 1924, together with corresponding particulars of imports retained in the United Kingdom.

Kind of goods.	Exports.		Retained imports.	
	1930.	1924.	1930.	1924.
	Th. cwts.	Th. cwts.	Th. cwts.	Th. cwts.
Hemp line yarns	2·9	4·0	11·4	37·3
Hemp tow yarns	3·8	9·4	39·5	49·2
Cordage, cables, ropes and twine, of hemp or like materials :—				
Under ¼ inch diameter				
Of hemp :—				
Binder and reaper twine ...	54·7	118·8	82·4	103·7
Other sorts	46·4	68·2	143·9	63·2
Of other materials	51·7	58·9	11·3	2·2
Of ½ inch diameter and over :—				
Of hemp	201·9	172·2	31·2	14·7
Of cotton	9·3	8·9	1·1	0·3
Of other materials	10·4	19·8	5·6	4·7
TOTAL—Cordage, cables, etc. ...	374·4	446·8	275·5	188·8
Manufactures of cordage :—				
Nets	31·9	19·1	4·0	7·3
Other*	0·8	0·6	0·8	0·5

* The corresponding values recorded for manufactures of cordage other than nets are as follows :—

	1930.	1924.
	£'000	£'000
Exports	7	5
Retained imports ...	3	3

Work done for the trade or on commission, etc.—The total amount received in respect of work done for other firms in 1930 was £18,000, as compared with £24,000 in 1924. These sums were made up as follows :—

	1930.	1924.
	£'000	£'000
Fixing and splicing driving ropes ...	9*	20
Other work done (including repair work)	9	4†
Total amount received	18	24

* In addition to this figure, the sum of £3,000 was recorded on schedules for other trades as received for similar work.

† All in respect of repair work.

Other products.—In addition to the output shown in the table of principal products on pages 229-30, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Rope, Twine and Net Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Kind of goods.	1930.	1924.
	Value.	Value.
	£'000	£'000
Hemp line yarns	21	40
	(10·3)	(15·0)
Hemp tow yarns	22	32
	(9·3)	(9·2)
Wire cables and rope	266	647
	(6·2)	(11·6)
Made-up canvas goods, bags, etc.	66	33
Other textile manufactures	348	141
Other goods made	3	7
TOTAL	726	900

Waste products sold.—The value of hemp, cotton, etc., waste sold in 1930 by firms in the Rope, Twine and Net Trade was £16,000. No sales of waste were recorded at the 1924 Census.

Employment and Wages.

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)	907	4,162	2,750	9,452	3,657	13,614
Administrative, technical and clerical staff (as at 18th October)	66	830	55	357	121	1,187
TOTAL	973	4,992	2,805	9,809	3,778	14,801
1924.						
Operatives (average for the year)	1,116	4,396	2,137	8,086	3,253	12,482
Administrative, technical and clerical staff (as at 18th October)	63	800	44	335	107	1,135
TOTAL	1,179	5,196	2,181	8,421	3,360	13,617
Average number of outworkers :—						
1930	8	713	721			
1924	14	945	959			

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 18 and 19.

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.
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
PRIME MOVERS.						
Reciprocating steam engines	9,853	117	9,970	7,107	1,468	8,575
Steam turbines	—	—	—	1,250	—	1,250
Internal combustion engines :—						
Gas	3,043	563	3,606	5,432	510	5,942
Petrol, kerosene, or other light oils ...	1,075	204	1,279	25	—	25
Heavy oils	631	—	631	860	260	1,120
Water engines	370	—	370	153	40	193
TOTAL	14,972	884	15,856	14,827	2,278	17,105
ELECTRIC GENERATORS.						
Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines ...	1,256	182	1,438	564	274	838
Steam turbines	—	—	—	1,000	—	1,000
Internal combustion engines :—						
Gas	370	67	437	1,214	140	1,354
Petrol, kerosene, or other light oils ...	44	—	44	—	—	—
Heavy oils	60	—	60	34	—	34
Water engines	35	—	35	18	29	47
TOTAL	1,765	249	2,014	2,830	443	3,273
ELECTRIC MOTORS.						
Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Electricity generated in same works	1,591	121	1,712	3,388	392	3,780
Purchased electricity	12,680	1,023	13,703	8,384	1,757	10,141
TOTAL	14,271	1,144	15,415	11,772	2,149	13,921

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	26,550	11,271*
Coke	428	1,244*
		B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—		
Generated in same works		1,637
Purchased		11,204
TOTAL—Electricity		12,841

* These figures were recorded by firms representing 94·9 per cent. of the net output of the whole trade.

TABLES.

I. Summary of results.

Particulars.	Unit.	England and Wales.	Scotland.	Great Britain.
Value of goods made and work done (Gross output)	£'000	4,579	1,650	6,229
Cost of materials used	"	3,085	1,078	4,163
Paid for work given out to other firms...	"	6	*	6
Net output	"	1,488	572	2,060
Average number of persons employed (excluding outworkers)	No.	10,246	4,555	14,801
Net output per person employed (excluding outworkers)	£	145	125	139
Mechanical power available :—				
Prime movers	H.P.	10,489	5,367	15,856
Electric motors driven by purchased electricity	"	10,760	2,943	13,703

* Less than £500.

II. Production.

A.—TOTAL MAKE OF HEMP YARNS, AS RETURNED ON SCHEDULES FOR THE ROPE, TWINE AND NET TRADE.

Kind of goods.	England and Wales.	Scotland.	Great Britain.
	Th. cwts.	Th. cwts.	Th. cwts.
Hemp line yarns :—			
Manila and other hard hems ...	645.4	202.7	848.1
Italian and other soft hems ...	23.8	8.4	32.2
TOTAL—Hemp line yarns ...	669.2	211.1	880.3
Hemp tow yarns :—			
Manila and other hard hems ...	68.3	10.2	78.5
Italian and other soft hems ...	47.0	21.9	68.9
TOTAL—Hemp tow yarns ...	115.3	32.1	147.4
TOTAL—Hemp yarns	784.5	243.2	1,027.7

B.—OUTPUT SOLD OR ADDED TO STOCK AND WORK DONE.

Kind of goods.	Unit.	England and Wales.	Scotland.	Great Britain.
Cordage, cables, ropes and twine, of hemp or like materials, under $\frac{1}{4}$ inch diameter :—				
Of hemp :—				
Binder and reaper twine	<i>Th. cwts.</i> £'000	*	*	148.1 359
Other sorts :—				
Of Manila and other hard hems	<i>Th. cwts.</i> £'000	133.6 361	22.1 75	155.7 436
Of Italian and other soft hems	<i>Th. cwts.</i> £'000	85.3 389	23.8 102	109.1 491
Of cotton	<i>Th. cwts.</i> £'000	104.5 639	8.3 59	112.8 698
Of jute	<i>Th. cwts.</i> £'000	22.7 68	12.0 26	34.7 94
Of flax and other materials (including mixtures) ...	<i>Th. cwts.</i> £'000	* *	* *	10.6 39
TOTAL—Cordage, etc., under $\frac{1}{4}$ inch diameter ...	<i>Th. cwts.</i> £'000	* *	* *	571.0 2,117
Cordage, cables and ropes, of hemp or like materials, of $\frac{1}{4}$ inch diameter and over :—				
Of Manila and other hard hems	<i>Th. cwts.</i> £'000	519.4 1,194	174.1 425	693.5 1,619
Of Italian and other soft hems	<i>Th. cwts.</i> £'000	50.0 207	17.3 52	67.3 259
Of cotton	<i>Th. cwts.</i> £'000	* *	* *	47.4 288
Of jute	<i>Th. cwts.</i> £'000	20.9 53	37.0 64	57.9 117
Of flax and other materials (including mixtures) ...	<i>Th. cwts.</i> £'000	* *	* *	16.1 45
TOTAL—Cordage, etc., of $\frac{1}{4}$ inch diameter and over ...	<i>Th. cwts.</i> £'000	647.8 1,770	234.4 558	882.2 2,328
Manufactures of cordage :—				
Nets of hemp	<i>Th. cwts.</i> £'000	52.0 381	3.7 29	55.7 410
Nets of cotton	<i>Th. cwts.</i> £'000	2.6 41	13.5 269	16.1 310
Nets of flax	<i>Th. cwts.</i> £'000	* *	* *	1.6 107
Other manufactures	£'000	* *	* *	6

Kind of goods.	Unit.	England and Wales.	Scotland.	Great Britain.
Hemp line yarns :—				
Manila and other hard hems	<i>Th. cwts.</i>	*	*	10.0
	£'000	*	*	20
Italian and other soft hems	<i>Th. cwts.</i>	*	*	0.3
	£'000	*	*	1
Hemp tow yarns :—				
Manila and other hard hems	<i>Th. cwts.</i>	*	*	4.5
	£'000	*	*	9
Italian and other soft hems	<i>Th. cwts.</i>	*	*	4.8
	£'000	*	*	13
Wire cables and rope	<i>Th. tons.</i>	*	*	6.2
	£'000	*	*	266
Made-up canvas goods, bags, etc. ...	£'000	*	*	66
Other textile manufactures	"	94	254	348
Other goods made	"	3	—	3
Waste sold (hemp, cotton, etc.)	"	*	*	16
Fixing and splicing of driving ropes ...	"	9‡	†	9‡
Other work done (including repair work)	"	9‡	†	9‡
TOTAL VALUE OF GOODS MADE AND WORK DONE (GROSS OUTPUT) ...	£'000	4,579	1,650	6,229

* Owing to the possible disclosure of information relating to individual firms, figures can only be given for Great Britain as a whole.

† Less than £500.

‡ Amount received for work done.

III. Employment.

A.—NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1930 (EXCLUDING OUTWORKERS).

Persons employed (excluding outworkers).	Males.		Females.		Males and females.	
	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
<i>England and Wales :—</i>						
Operatives	624	2,961	1,708	6,101	2,332	9,062
Administrative, etc.* ...	58	636	43	274	101	910
TOTAL	682	3,597	1,751	6,375	2,433	9,972
<i>Scotland :—</i>						
Operatives	253	1,063	951	3,037	1,204	4,100
Administrative, etc.* ...	8	194	12	83	20	277
TOTAL	261	1,257	963	3,120	1,224	4,377
<i>Great Britain :—</i>						
Operatives	877	4,024	2,659	9,138	3,536	13,162
Administrative, etc.* ...	66	830	55	357	121	1,187
TOTAL	943	4,854	2,714	9,495	3,657	14,349

* Administrative, technical and clerical staff.

B.—OPERATIVES (EXCLUDING OUTWORKERS) 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. 18th	9,637	4,217	13,854	July 19th	9,148	4,328	13,476
Feb. 15th	9,590	4,280	13,870	Aug. 16th	9,100	4,187	13,287
Mar. 15th	9,624	4,371	13,995	Sept. 13th	9,032	4,136	13,168
April 12th	9,565	4,549	14,114	Oct. 18th	9,062	4,100	13,162
May 17th	9,536	4,520	14,056	Nov. 15th	9,194	4,049	13,243
June 21st	9,295	4,434	13,729	Dec. 13th	9,252	4,165	13,417
AVERAGE FOR THE 12 MONTHS					9,336	4,278	13,614

C.—NUMBERS OF OUTWORKERS AT TWO SPECIFIED PERIODS IN 1930.

Country.	January.			July.		
	Males.	Females.	Total.	Males.	Females.	Total.
<i>England and Wales ...</i>	7	623	630	7	569	576
<i>Scotland</i>	1	140	141	1	93	94
<i>Great Britain ...</i>	8	763	771	8	662	670

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	4,945	25	4,908	92	9,853	117
Internal combustion engines :—						
Gas	2,829	500	214	63	3,043	563
Petrol, kerosene or other light oils	1,075	204	—	—	1,075	204
Heavy oils	631	—	—	—	631	—
Water engines	280	—	90	—	370	—
TOTAL	9,760	729	5,212	155	14,972	884
TOTAL OF PRIME MOVERS INSTALLED ...	10,489		5,367		15,856	

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.
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines ...	461	90	795	92	1,256	182
Internal combustion engines :—						
Gas	370	67	—	—	370	67
Petrol, kerosene or other light oils ...	44	—	—	—	44	—
Heavy oils ...	60	—	—	—	60	—
Water engines ...	—	—	35	—	35	—
TOTAL ...	935	157	830	92	1,765	249
TOTAL OF ELECTRIC GENERATORS INSTALLED	1,092		922		2,014	
ELECTRIC MOTORS.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works	712	61	879	60	1,591	121
Purchased electricity	10,018	742	2,662	281	12,680	1,023
TOTAL	10,730	803	3,541	341	14,271	1,144
TOTAL OF ELECTRIC MOTORS INSTALLED ...	11,533		3,882		15,415	

V. Consumption of fuel.

Kind of fuel used.	England and Wales.	Scotland.	Great Britain.
	Tons.	Tons.	Tons.
Coal used for power	14,356	12,194	26,550
Coke used for power	402	26	428
	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	790	847	1,637
Purchased	8,839	2,365	11,204
TOTAL—Electricity	9,629	3,212	12,841