THE RUBBER 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 rubber goods. 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 ten persons:—

Particulars	Unit	1930	1924
Value of goods made and work done (Gross output)	£'000	28,868	23,834
Cost of materials used	,,	14,359	12,142
Paid for work given out to other firms	"	20	*
Net output	No.	14,489 52,165	11,692 47,496
Net output per person employed	£	278	246
Power available :—			
Prime movers	H.P.	46,101	51,211
Electric motors driven by purchased electricity	,,	130,203	58,924
Number of returns	No.	163	201
Number of establishments	,,	179.	+

^{*} Not ascertained.

Deficiencies in 1930 aggregates.—The aggregate number of persons employed in 1930 by firms that stated that they employed not more than ten persons on the average was 1,203, the corresponding figure for 1924 being 591.* The value of the gross output of the small firms in 1924 was £190,000,* and particulars of the items included in this figure are given below:—

Rubber compounds and solutions	£'000 37
	(338 tons)
Overcoats, mackintoshes, and other proofed	
garments	12
Other goods made	78
Repairs and work done for the trade	63
TOTAL	190*

In addition, 29 firms to which schedules were sent at the 1930 Census and 70 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.

[†] Not available.

^{*} These figures include particulars of the few firms in Northern Ireland for which separate information is not available for publication.

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)	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
J. F. John - 25 Will	No.	£'000	£'000	No.	£
11-24	27	231	120	492	244
25-49	32	668	260	1,105	235
50-99	31	988	508	2,127	239
100-199	26	1,766	893	3,814	234
200-299	13	1,245	621	3,057	203
300-399	4	461	214	1,448	148
400-499	6	1,063	448	2,685	167
500-749	10	2,694	1,559	5,837	267
750-1,499	6	5,171	2,236	6,381	350
1,500 and over	8	14,581	7,630	25,219	303
TOTAL	163	28,868	14,489	52,165	278

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	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed
	No.	£'000	£'000	No.	£
, (1930	51	4,325	2,252	9,206	245
1 1924	60	2,971	1,667	8,366	199
1930	56	6,972	3,547	15,589	228
$2 \dots \begin{cases} 1924 \end{cases}$	80	6,756	3,142	14,226	221
9 \$1930	10	2,111	959	3,174	302
9 1924	12	1,162	422	2,222	190
1930	6 7	1,443	782	5,913	132
$10 \dots \begin{cases} 1924 \end{cases}$	7	1,978	1,019	5,297	192
Other \(\) 1930	40	14,017	6,949	18,283	380
areas \(\) 1924	42	10,967	5,442	17,385	313
m (1930	163	28,868	14,489	52,165	278
TOTAL \ \ 1924	201	23,834	11,692	47,496	246

Northern Ireland.—No production of rubber goods was recorded for Northern Ireland in 1930. In order to avoid the disclosure of information relating to individual firms, particulars of the small output in 1924 are included in those relating to the small firms on page 219.

Production

The total quantity of rubber in sheets, thread, etc., produced in 1930 was recorded as 87,301 tons (60 entries); the corresponding total for 1924 was 43,270 tons. These figures represent rubber prepared from imported rubber or latex and include such rubber used for further manufacturing purposes in the works in which it was made. Of the total output in 1930, 84,080 tons were used by manufacturers themselves in the production of more finished goods and the remainder (3,221 tons) was sold or added to stock; in 1924, 39,510 tons were used in the manufacturers' own works and 3,760 tons were sold or added to stock.

The total output of reclaimed rubber in 1930 was recorded as 13,894 tons (19 entries), of which 6,844 tons were used for further manufacturing purposes by the firms that produced it and the remaining 7,050 tons were sold or added to stock. Corresponding information for 1924 is not available.

Goods made for sale.—The following table shows the value and, where available, the quantity of the principal classes of rubber products made in 1930 and 1924 for sale:—

			19	30			19	24
Kind of goods		Return	Total					
Kind of goods	The Rubber Trade				All trades			
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value
D-11	Tons	£'000	No.	Tons	£'000	No.	Tons	£,000
Rubber in sheets, threads, etc Reclaimed rubber	3,221 7,050	763 264	31 7	3,221 7,050	763 264	31 7	3,760	973 237†
Rubber tyres and tubes:— Pneumatic:—							in the second	
Outer covers— Motor car Motor cycle and	Thous. 5,198	11,165	20	Thous. 5,198	11,165	20	Thous. 1,927	4,913
tri-car Cycle Not separately	862 6,798	637 928	12 10	862 6,798	637 928	12 10	634 5,932	617 1,291
distinguished	_	_	-	-1	-	-	35	28
Total—Outer covers	12,858	12,730		12,858	12,730		8,528	6,849
Inner tubes— Motor car Motor cycle and	4,210	1,322	19	4,210	1,322	19)	an elan	
tri-car Cycle	627 5,578	97 280	13 11	627 5,578	97 280	13	7,489	1,218
Total—Inner tubes	10,415	1,699		10,415	1,699	•••	7,489	1,218
Solid tyres:— For motor cars, motor cycles and							52 m	
tri-cars	233 163	1,137 108	8 9	233 163	1,137 108	8	412	2,128
For other vehicles	103	108	11	103	108	9	*	300
Not separately distinguished	_	-		_		_	‡	39
Total—Solid tyres		1,389		(1,389			2,467

^{*} For particulars see page xviii.

			19	930			1	924
		Retur	ned on	schedul	es for	ations	2011	
Kind of goods	The I	Rubber T	rade	A	All trades		T	otal
	Quan- tity	Value	Ent- ries	Quan- tity	Value	Ent- ries	Quan- tity	Value
Rubber accessories for motor vehicles and		£'000	No.		£'000	No.		£,000
cycles, not elsewhere specified	Th. doz.	559	36	 Th. doz.	559	36	Th. doz.	347
Rubber boots	prs. 103	312	6	prs. 106	317	9)	prs.	1 969
Rubber shoes, overshoes and goloshes	732	761	12	796	855	14	988	1,263
Rubber heels and soles	Tons 5,043 Th. yds.	840	32	$\begin{array}{c} { m Tons} \\ { m 5,043} \\ { m Th.\ yds.} \end{array}$.840	32	Tons 3,699 Th. yds.	817
Hose, of rubber or of rubber and other materials, armoured or not	6,193	442 248	22 8	6,193	442 248	22) 8)	5,270	722
Rubber valves, washers and rings for industrial purposes (sold separately), not included elsewhere		342	32		346	35		525¢
Sheeting of rubber and rubberproof cloth of which the chief value is rubber	Th. sq. yds. 4,571	371 76	22 3	Th. sq. yds. 4,571	371 76	$egin{bmatrix} 22 \ 3 \end{bmatrix}$	*	1,101
$\mathbf{Waterproof}_{\mathbf{s}}^{!}\mathbf{piece} ext{-}\mathbf{goods}\phi\Big\{$	1,555	136) 279)	7	1,555	136) 279)	7		
Overalls and aprons, wholly or mainly of rubber	 Th. doz.	15	8	\dots Th. doz.	15	8	§	§ ,
Rubber gloves Hot water and air goods,	prs. 22	26	14	prs. 22	26	14	§	§
medical, surgical and dental appliances Machinery belting:—	Tons	519	26	Tons	519	26	Tons	650
Balata Rubber and canvas Vulcanite and ebonite in rods, tubes, sheets,	868 2,645	389 554	6 17	1,385 2,750	558 594	12\ 20}	1,820	696 225
etc., not elsewhere specified	2,259	450	21	2,259	450	21	*	912
Mats, matting and tiling of rubber Toys, wholly or mainly	3,282	371	39	3,282	371	39	*	137¶
of rubber (excluding balls) Rubber compounds and	 1,310	67 104	4 29	1,310	67 104	4 29)	300 78	45
solutions	‡	24	5	‡	30	7	1,347	144
Mechanical rubbergoods, for included elsewhere Miscellaneous rubber products	1,782 ‡	384 133 1,327	$\begin{bmatrix} 21 \\ 13 \\ 62 \end{bmatrix}$	1,782 ‡	384 134 1,354	21 14 70	(4,000	1,163 310
Total—Principal pro-	•••	25,574			25,920			20,801

Prices.—The average selling rubber in 1930 and 1924, as care shown in the following table these comparisons do not take have occurred since the earlier included under the specified de	ealculated from e. It should account of a year in the q	m the Ce be borne any chang	nsus returns, in mind that ges that may
Kind of goods	Average	1930 as a percentage	
iting of goods	1930	1924	of 1924
Rubber in sheets, threads, etc	£ per ton 236·8	£ per ton 258 · 9	Per cent. 91.5

Vind of goods	Average	1930 as	
Kind of goods	1930	1924	a percentage of 1924
Rubber in sheets, threads, etc	£ per ton 236.8	£ per ton 258 · 9	Per cent. 91·5
Rubber tyres and tubes :— Pneumatic :— Outer covers :—	£ each	£ each	CONTRACTOR OF THE SECOND SECON
Motor car	2.15	2.55	84.3
Motor cycle and tri-car	0.74	0.97	76.3
Cycle	s. each 2·73	s. each 4·35	62 · 8
Inner tubes :— Motor car Motor cycle and tri-car Cycle	$ \begin{bmatrix} 6 \cdot 28 \\ 3 \cdot 09 \\ 1 \cdot 00 \end{bmatrix} 3 \cdot 25 $	3.25	100.0
Solid tyres:—	£each	£ each	Mariana Mariana Maria
For motor cars, motor cycles and tri-cars	4⋅88 £ per doz. prs.	5·17 £ per doz. prs.	94 · 4
Rubber boots Rubber shoes, overshoes and goloshes	$\begin{bmatrix} 2 \cdot 99 \\ 1 \cdot 07 \end{bmatrix} 1 \cdot 30$	1.28	101.6
Rubber heels and soles	£ per ton $166 \cdot 6$ s. per yd.	£ per ton 220.8 s. per yd.	75.5
Hose, of rubber or of rubber and other			
materials, armoured or not	1.43	2.74	52.2
Walin Lakin	£ per ton	£ per ton	the second or second
Machinery belting: Balata Rubber and canvas	$\binom{403 \cdot 1}{216 \cdot 2}$ 278 · 8	382.3	72.9
Rubber compounds and solutions	78.90	106.6	74.0

^{*} Not ascertained. † Including waste rubber. ‡ Quantity not stated. ϕ So far as recorded separately.

[§] Not separately recorded.
|| "Vulcanite and ebonite and articles thereof."
|| "Rubber flooring."

Volume of production in 1930 and 1924.—The following table compares the volume of production of rubber manufactures in 1930 and 1924:—

	T	otal product	ion	1930	
Kind of goods	1930	19.	1924		
Arma of goods	As returned	As returned	At 1930 average values	percentage of 1924	
Rubber in sheets, threads, etc	£'000 763	£'000 973	£'000 890	Per cent. 86	
Rubber tyres and tubes :— Pneumatic :— Outer covers :—					
Motor car	11,165	4,913	4,142	270	
Motor cycle and tri-car	637	617	471	135	
Cycle	928	1,291 28	811 22*	114	
Total—Outer covers	12,730	6,849	5,446	234	
Inner tubes Solid tyres :—	1,699	1,218	1,218	139	
For motor cars, motor cycles and				1201	
tri-cars	1,137	2,128	2,009	57	
For other vehicles Rubber boots, shoes, overshoes and	252	339§	320†	79	
goloshes	1,172	1,263	1,283	91	
Rubber heels and soles	840	817	617	136	
Hose, of rubber or of rubber and					
other materials, armoured or not	690	722	377	183	
Machinery belting of balata and rubber and canvas	1,152	921	671	175	
Rubber compounds and solutions	134	144	107	125	
Other rubber goods	5,351	5,427	4,420‡	121	
TOTAL	25,920	20,801	17,358	149	

^{*} Based on average value of all outer covers.

Production, exports and imports.—The following table shows, in relation to production, the quantities of the principal classes of rubber goods exported from the United Kingdom in 1930 and 1924, together with the quantities imported and retained. The figures for 1924 include the output of the small firms and of the few firms in Northern Ireland.

Kind of goods	Produc- tion	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British products
	Tons	Tons	Per cent.	Tons	Tons	Per cent
Rubber in sheets, \(\int 1930 \)	87,301	968	1.1	432	86,765	99.5
threads, etc \ 1924	43,270	564	1.3	275	42,981	99.4
	Thous.	Thous.		Thous.	Thous.	
Pneumatic tyres :— Outer covers :—					THE RESERVE	
Motor car $\begin{cases} 1930 \\ 1024 \end{cases}$	5,198	1,386*	26.7	96*	3,908	97.5
(130±	1,927	550	28.5	843	2,220	62.0
Motor cycle § 1930	862 634	124* 161	14·4 25·4	25*	763 493	$\begin{array}{c c} 96 \cdot 7 \\ 95 \cdot 9 \end{array}$
and tri-car \ 1924	6,798	2,238*	32.9	861*	5,421	84.1
Cycle $\dots \begin{cases} 1930 \\ 1924 \end{cases}$	5,932	1,623	27.4	724	5,033	85.6
TOTAL—Outer \(\) 1930	12,858	3,748*	29.1	982*	10,092	90.3
covers \(1924	8,528†	2,334	27.4	1,587	7,781	79.6
Inner tubes :—			20.0	0.14	0.074	00.0
Motor car 1930	4,210	1,187*	28.2	31*	3,054	99.0
Motor cycle 1930	627	123*	19.6	17*	521	96.7
Cycle 1930	5,578	1,575*	28.2	1,118*	5,121	78.2
TOTAL — Inner \ 1930	10,415	2,885*	27.7	1,166*	8,696	86.6
tubes <i>§ 1924</i>	7,489	1,935	25 · 8	2,039	7,593	73.1
Solid tyres for	200				007	05.0
motor cars, 1930 motor cycles. 1924	233	17 62	$7 \cdot 3$ $14 \cdot 8$	11 72	227 429‡	95·2 83·2
motor cycles, 1924 and tri-cars	419‡	02	14.0	12.40 1284	teat h	09.2
	Th. doz.	Th. doz.		Th. doz.	Th. doz.	100 mar 10 M
D 11 1 1 1 6 2000	prs.	prs.	00.0	prs.	prs.	04 -
Rubber boots and \$1930	902	255	28.3	1,220	1,867	34.7
shoes \(1924	991 Tons	259 Tons.	26.1	Tons	957 Tons	76.5
Rubber heels and 1930	5,043	10ns.	3.0	3,131	8,026	61.0
soles 1924	3,720	262	7.0	93	3,551	97.4

^{*} Other than tyres or tubes exported or imported with complete vehicles or chassis as part of their equipment or fitted to wheels.

Imported rubber tyres for motor vehicles became liable to a Customs duty at the rate of $33\frac{1}{3}$ per cent. ad valorem in April, 1927, and this duty was in force throughout the year 1930.

[§] Including some unclassified tyres.

[†] Based on average value of solid tyres for motor cars, motor cycles and tri-cars.

[‡] Based mainly on average value of preceding items.

[†] Including 35,000 unclassified covers.

[‡] Including an estimate in respect of the proportion of tyres not separately distinguished.

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Other products.—In addition to the output shown in the table of principal products on pages 221-2, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Rubber Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

Kind of goods	1930	1924
	£'000	£'000
Mackintoshes, oilskins and other proofed garments: Rubber proofed	677 88	1,959
Rubber balls :— Golf balls	5357	ASLESS.
Tennis balls	298	1,052
Other rubber balls	81	
Other goods	519	275
Total	2,198	3,286

Waste products sold.—The sum of £13,000 was recorded in 1930 for waste rubber sold by firms that made their returns on schedules for the Rubber Trade. Corresponding particulars for 1924 are not available, waste rubber being included with reclaimed rubber (see page 221).

Work done for the trade or on commission and repair work.—
The total amount recorded as received for work done for the trade in 1930 was £1,083,000; the corresponding total for 1924 was £502,000, the latter figure being inclusive of £23,000 returned on schedules for other trades. The principal kinds of work included in these totals were as follows:—

Kind of work done	1930	1924
200 27 (100)	£'000	£'000
Work done for the trade or on commission:—		Lending State of the land
Waterproofing	995	472
Other work	59	10
Repairs to rubber, etc., goods	29	20
Total	1,083	502

Employment and Wages

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

Dansana amplayad	Males		Females		Total	
Persons employed	Under 18	All ages	Under 18	All	Under 18	All
1930 Operatives (average for the year) Administrative, technical and clerical staff (as at 18th	3,013	26,663	4,220	16,657	7,233	43,320
clerical staff (as at 18th October)	618	6,037	471	2,808	1,089	8,845
TOTAL	3,631	32,700	4,691	19,465	8,322	52,165
1924 Operatives (average for the year) Administrative, technical and clerical staff (as at 18th	2,171	22,215	4,238	18,038	6,409	40,253
October)	506	4,939	336	2,304	842	7,243
TOTAL	2,677	27,154	4,574	20,342	7,251	47,496

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 210 and 211.

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		1930		1924		
equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS Reciprocating steam	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
engines Steam turbines Internal combustion engines :—	14,759 14,630	2,540 11,530	17,299 26,160	23,809 17,512	5,188 2,681	28,997 20,193
Gas Petrol, kerosene, or	991	170	1,161	1,626	357	1,983
other light oils Heavy oils Water engines	7 1,094 80	300	7 1,394 80		_ 8	- 30
TOTAL	31,561	14,540	46,101	42,977	8,234	51,211

1930 1924 Power equipment In In Ordinarily Ordinarily Total reserve reserve Total in use or idle or idle ELECTRIC GENERATORS Kw. Kw. Kw. Kw. Kw. Kw. Driven by Reciprocating steam engines 3,446 2.095 1,351 5,161 1,617 6,778 Steam turbines ... 9,875 7,750 17,625 12,944 2,000 14,944 Internal combustion engines :-Gas 75 70 145 120 38 158 Petrol, kerosene, or other light oils ... Heavy oils 669 200 869 ... Water engines 44 44 TOTAL 12,758 9,371 22,129 18,225 3,659 21,884 ELECTRIC MOTORS H.P. H.P. H.P. H.P. H.P. H.P. Driven by Electricity generated in same works ... 28,588 779 29,367 33,286 3,209 36,495 Purchased electricity 121,660 8,543 130,203 55,073 4,377 59,450 TOTAL ... 150,248 9,322 159,570 88,359 7,586 95,945

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)	For power and other purposes not separately distinguished
Coal	1 006	Tons 281,774* 3,921*	Tons 6,550 5
Electricity used for all purposes: Generated in same works Purchased			B.T.U. (Kwhrs.) '000 23,725 148,482

^{*} These figures were recorded by firms representing $93 \cdot 9$ 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			***** 7. 7930	STREET,
(Gross output)	£'000	25,314	3,554	28,868
Cost of materials used	,,	12,547	1,812	14.359
Paid for work given out to other firms	,,	19	1	20
Net output	,,	12,748	1.741	14.489
Average number of persons employed	No.	43,078	9,087	52,165
Net output per person employed Power available:—	£	296	192	278
Prime movers	H.P.	44,543	1,558	46,101
electricity	,,	111,787	18,416	130,203

II. Production

A.—Total make of Rubber as returned on schedules for the Rubber Trade

Kind of goods	England and Wales	Scotland	Great Britain
Rubber in sheets, threads, etc Reclaimed rubber	Tons 81,138 *	Tons 6,163 *	Tons 87,301 13,894

^{*} Owing to the possible disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland cannot be given.

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

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
Rubber in sheets, threads, etc	Tons	2,711	510	3,221
	£'000 Tons	714	49 *	763
Reclaimed rubber {	£'000	*	*	$7,050 \\ 264$
Rubber tyres and tubes :— Pneumatic :— Outer as a second			Burgar Rheis g	
Outer covers :— Motor car	Thous.	*	*	5,198
}	£'000	*	*	11,165
Motor cycle and tri-car	Thous.	*	*	862
\(\text{\tint{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	£'000 Thous.	*	*	637
Cycle {	£'000	*	*	$6,798 \\ 928$
Inner tubes :—				
Motor car {	Thous.	*	*	4,210
- tendovice (Language Calendary)	£'000 Thous.	*	*	1,322
Motor cycle and tri-car	£'000	*	*	627 97
Chrole	Thous.	*	*	5,578
Cycle {	£'000	*	*	280
Solid tyres:—				
For motor cars, motor cycles and	Thous.	233	_	233
tri-cars }	£'000	1,137	*	1,137
For other \(\) Quantity stated \(\)	Thous. £'000	*	*	$\frac{163}{108}$
vehicles Quantity not stated	,,	*	*	144
Rubber accessories for motor vehicles	,,			III
and cycles, not elsewhere specified	,,	*	*	559
D-11	Thous.			
Rubber boots	doz. prs. £'000	*	*	103
}	Thous.			312
Rubber shoes, overshoes and goloshes	doz. prs.	362	370	732
Constant Con	£'000	378	383	761
Rubber heels and soles	Tons	*	*	5,043
	£'000	*	*	840
Hose, of rubber or of rubber and other Quantity stated	Th. yds.	5,077	1,116	6,193
motoriala ar	£'000	347	95	442
moured or not Quantity not stated	,,	239	9	248
Rubber valves, washers and rings, for				
industrial purposes (sold separately),				
not included elsewhere	"	*	*	342
Sheeting of rubber	Th. sq.		THE RESERVE	
and rubber proof cloth of which the	yds.	2,972	1,599	4,571
abjet relucial	£'000	248	123	371
rubber Quantity not stated	,,	-	76	76
	Th. sq.			
Waterproof piece- Quantity stated \	yds.	*	*	1,555
goods§	£'000	*	*	136
Quantity not stated Overalls and aprons, wholly or mainly	,,	*	*	279
of rubber		*	*	15
··· _	,,			19

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
Rubber gloves {	Thous. doz. prs. £'000	*	*	22 26
Hot water and air goods, medical, surgical and dental appliances Machinery belting:—	29	418	101	519
Balata	Tons £'000	*	*	868 389
}	Tons	2,506	139	2,645
Rubber and canvas {	£'000	530	24	554
Vulcanite and ebonite in rods, tubes,	Tons	*	*	2,259
sheets, etc., not elsewhere specified \(\)	£'000	*	*	450
Mats, matting and tiling of rubber {	Tons	2,630	652	3,282
	£'000	324	47	371
Toys, wholly or mainly of rubber (excluding balls)		67		67
	Tons	*	*	1,310
Rubber compounds Quantity stated	£'000	*	*	104
and solutions Quantity not stated	,,	*	*	24
Mechanical rubber Quantity stated {	Tons	*	*	1,782
goods, not in- >	£'000	*	*	384 133
cluded elsewhere Quantity not stated Mackintoshes, oilskins and other proofed garments:—	"			199
Pull Quantity stated {	Thous.	544	329	873
Rupper proofed 3	£,000	328	219	547
Quantity not stated	,,	130	*	130
Other descriptions	"		*	88
Rubber balls:—	Th. doz.	*	*	854
Golf balls {	£'000			535
Tennis balls	Th. doz.	*	*	1,025
	£'000			298
Other rubber balls	,,	*	*	81
Miscellaneous rubber products	,,	1,274	53	1,327
Waste rubber Other goods made	"	13	320	13 519
Repairs to rubber, etc. goods	"	29†	± ±	29†
Work done for the trade or on com-	"	20	*	
mission:—	18-10-1		18883	
Waterproofing	,,	798†	197†	995†
Other work	,,	*	*	59†
Total value of goods made and work done (Gross output)	£'000	25,314	3,554	28,868

^{*} Owing to the possible disclosure of information relating to individual firms, separate particulars for England and Wales and for Scotland cannot be given.

[§] So far as recorded separately.

[†] Amount received.

[‡] Less than £500.

III. Employment

A.—Numbers employed in week ended 18th October, 1930

Downer amplemed	М	Males		Females		Males and females	
Persons employed	Under 18	All ages	Under 18	All	Under 18	All	
17 , , ,	2,563 583	21,563 5,441	3,064 418	12,419 2,458	5,627 1,001	33,982 7,899	
TOTAL	3,146	27,004	3,482	14,877	6,628	41,881	
Administrative, etc.* .	369 35	4,381 596 4,977	1,042 53 1,095	3,789 350 4,139	1,411 88 1,499	8,170 946 9,116	
A7	2,932	25,944 6,037	4,106 471	16,208 2,808	7,038	42,152 8,845	
TOTAL	3,550	31,981	4,577	19,016	8,127	50,997	

^{*} Administrative, technical and clerical staff.

B.—Operatives employed in one week in each month of 1930

Week	Male	es and fem	nales	Week	Male	les and females		
ended	England and Wales	Scotland	Great Britain	ended	England and Wales	Scotland	Great Britain	
Jan. 18 Feb. 15 Mar. 15	36,593 36,361 36,301	8,205 8,375 8,291	44,798 44,736 44,592	July 19 Aug. 16 Sept. 13	35,012 34,124 33,977	7,793 7,934 8,144	42,805 42,058 42,121	
April 12 May 17 June 21	36,043 35,771 35,368	8,344 8,034 7,906	44,387 43,805 43,274	Oct. 18 Nov. 15 Dec. 13	33,982 34,485 34,131	8,170 8,310 8,186	42,152 42,795 42,317	
AVERAGE I	FOR THE	TWELVE M	ONTHS	•••	35,179	8,141	43,320	

IV. Power

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS AND ELECTRIC MOTORS

The state of the s	Englan Wa		Scot	land	Great B	ritain	
Power equipment	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.	н.р.	H.P.	H.P.	H.P.	H.P.	
Reciprocating steam engines Steam turbines Internal combustion engines :—	13,201 14,630	2,540 11,530	1,558		14,759 14,630	2,540 11,530	
Gas	991	170	<u>-</u>	1987 (1987) 18	991	170	
Petrol, kerosene, or other light oils	7	_		<u> </u>	7	_	
Heavy oils Water engines	1,094 80	300	_	_	1,094	300	
TOTAL	30,003	14,540	1,558	_	31,561	14,540	
TOTAL OF PRIME MOVERS INSTALLED			1,558		46,101		
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
Driven by Reciprocating steam engines Steam turbines Internal combustion engines :—	1,741 9,875	1,351 7,750	354	_	2,095 9,875	1,351 7,750	
Gas	75	70	-		75	70	
Heavy oils Water engines	669	200		_	669	200	
TOTAL	12,404	9,371	354	_	12,758	9,371	
TOTAL OF ELECTRIC GENERATORS INSTALLED	21,7	175	354		22,129		
ELECTRIC MOTORS Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Electricity generated in same works Purchased electricity	28,262 103,711	779 8,076	326 17,949	467	28,588 121,660	779 8,543	
TOTAL	131,973	8,855	18,275	467	150,248	9,322	
TOTAL OF ELECTRIC MOTORS INSTALLED	140,8	140,828		18,742		159,570	

V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power*	Tons 77,653 1,806	Tons 12,596	Tons 90,249 1,806
Electricity used for all purposes:— Generated in same works Purchased	B.T.U. (Kwhrs.) '000 23,572 128,093	B.T.U. (Kwhrs.) '000 153 20,389	B.T.U. (Kwhrs.) '000 23,725 148,482
Total—Electricity	151,665	20,542	172,207

^{*} In addition, 6,550 tons of coal and 5 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.