#### THE SHIPBUILDING TRADE (Private firms)

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 private firms that were engaged wholly or mainly in the construction or repair of ships, boats, etc. Work of the same kind done at Government dockyards and by railway companies and canal, dock and harbour authorities is not included in this report, but is dealt with in a separate volume.

The particulars given in the following pages relate to work carried out in shipbuilding and ship-repairing yards, and do not cover the marine engineering shops maintained by shipbuilding firms. Separate returns in respect of these shops were made on the schedule for the Mechanical Engineering Trade, and the information received is included in the report on that trade in the section relating to Marine Engineering (see page 240). A table showing, in summary form, the output of marine machinery by shipbuilding firms is, for convenience of reference, given later in the present report (page 318).

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		1930	1924
Value of products and work done (Gross output)	£'000	57,299	51,001
Cost of materials used	,,	30,019	28,243
Paid for work given out to other firms Net output	"	1,360 f 25,920	22,758
Average number of persons employed	No.	123,571	134,321
Net output per person employed	£	210	169
Power available :— Prime movers	H.P.	28,284	34,587
Electric motors driven by purchased electricity	,,	276,450	301,467
Number of returns	No.	401	493
Number of establishments	,,	456	*

<sup>\*</sup> Not available.

**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 2,379, the corresponding figure for 1924 being 1,740. The value of the gross output of the small firms in 1924 was £399,000, and particulars of the items included in this figure are given below:—

						3	E'000
Ships, boats, etc.	, whol	ly const	ructed	in the	year:		
Motor vessels							21
Sailing vessels							17
Other vessels							41
Work of new con	nstruc	tion on	ships,	boats.	etc	not	
wholly const							
Steam vessels a							2
Sailing vessels							6
Other vessels							4
Repair work on							
Steam vessels							76
Motor vessels							10
Sailing vessels							66
Other vessels							85
Vessels, not ser	paratel	v distir	guishe				13
Other goods mad							49
Other work done							9
		•	Тот	'AT.			399
							000

In addition, 62 firms to which schedules were sent at the 1930 Census and about 75 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.

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 fire (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		86	442	252	1,480	170
25-49		70	786	435	2,463	177
50-99		73	1,801	1,044	5,369	194
100-199		50	2,420	1,428	7,259	197
200-299		28	2,663	1,637	6,659	246
300-399		18	2,574	1,228	6,159	199
400-499		14	2,787	1,453	6,360	228
500-749		23	7,092	3,070	14,156	217
750-999		8	4,155	1,419	6,892	206
1,000-1,499		8	4,788	1,962	9,629	204
1,500 and ove	er	23	27,791	11,992	57,145	210
TOTAL		401	57,299	25,920	123,571	210

Regional distribution.—In the following table 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
	No.	£'000	£'000	No.	£
1 1930	61	3,648	2,185	9,124	239
$1 \qquad \dots \begin{cases} 1330 \\ 1924 \end{cases}$	68	4,238	2,554	13,799	185
2 1930	48	5,609	3,115	17,105	182
1924	55	5,711	2,663	15,214	175
3 1930	6	476	181	888	204
3 1924	6	183	80	570	140
4 1930	59	19,080	7,041	36,223	194
4 \ 1924	64	15,939	5,996	37,190	161
5 \ 1930	6	55	21	183	116
1924	6	25.	15	111	135
6 1930	111	5,930	3,450	17,431	198
1924	132	5,545	3,241	18,004	180
7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	19	1,333	977	4,364	224
1924	35	1,656	1,218	5,645	216
8 \$ 1930	7	162	89	481	186
° \ 1924	11	188	98	568	173
9 \[ \int \] 1930	57	18,737	7,670	31,844	241
1924	73	15,301	5,849	35,978	163
10 \ 1930	27	2,269	1,191	5,928	201
10 \ 1924	43	2,215	1,044	7,242	144
Тотац \$1930	401	57,299	25,920	123,571	210
10TAL \ 1924	493	51,001	22,758	134,321	169
100					12597 1293177

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 firms that employed an average of more than *five* persons, while those for 1924 relate to all firms.

Particulars	Unit	1930	1924
Value of products and work done (Gross output) Cost of materials used and amount paid for work	£'000	5,425	3,271
given out to other firms	,,	3,792	1,817
Net output	,,	1,633	1,454
Average number of persons employed	No.	9,882	7,546
Net output per person employed	£	165	193
Power available:—			
Prime movers	H.P.	8,323	10,095
Electric motors driven by purchased electricity	,,	38,634	28,954
by purchased electricity	,,	30,034	20,9

<sup>\*</sup> For particulars see page xviii.

Detailed particulars of the items included in the gross output values shown in the above table are given below:—

	Notus	e of or	itnut				1930	1924
Nature of output						Value	Value	
			. 1.	.1			£'000	£'000
Ships, boats, etc., w	nony co	onstruc	tea in	tne yea	r:-		138	275
Steam vessels				) (No	mber		(3)	(3)
Steam vessers	•••	•••			oss toni	1000	(4,498)	(13,710)
				Slan	088 10111	uye)	155	(10,710)
Motor vessels				) (No	ımber)		(3)	
MOTOL VESSEIS	•••				oss toni	agga)	(6,185)	
Other vessels				Clan	088 10111	iage)	(0,100)	
Other vessels	•••	•••		•••			4	
TOTAL—Ships,	hoata	oto T	holly d	onatmi	oted in	the		
vear		n	mony (	onsuu	cieu ii	i the	297	275
year			•••				201	210
Work of new constr	netion	on shir	s hoat	s etc.	not w	holly		
constructed in t			os, soar	, 000.,	HOU W.	dony		
Steam vessels							1,242	1,281
Motor vessels							3,393	1,078
Other vessels							215	3
O ULICE TOUBORD								
TOTAL-Work	of new o	onstru	ction o	n ships.	boats.	etc.		
				the ye			4,850	2,362
						-		
Repair work on								
War vessels								17
Steam vessels							138	564
Motor vessels							22	19
Other vessels							10	_
Total—Repair	work o	n ship	s, boat	s, etc.			170	600
011								
Other goods made	•••	•••		•••			7	1
Other work done					•••		101	33
TOTAL VALUE O	F PROD	TOTS A	ND WO	RK DON	TIE.		5,425	3,271
TOTAL VALUE O	T I TUOD	OULS A	TID WO	THE DOLL	111		0,440	0,411

#### Production

The schedule for the Shipbuilding Trade was divided at both Censuses into three sections dealing respectively with (a) vessels wholly constructed during the year of return, (b) new constructional work on vessels not wholly constructed during the year, and (c) repair work. These three sections are, for convenience, considered separately in the following paragraphs.

Ships, boats, etc., wholly constructed in the year.—The following table shows, for 1930 and 1924, the value and, where available, the number and tonnage of ships, boats, etc., wholly constructed in the year of return, whether sold in that year or not. The particulars of value are inclusive of machinery and fittings purchased from other firms or supplied by other departments of the shipbuilding firms, and also of the value of all work such as the manufacture of machinery, etc. given out to sub-contract. Boats forming part of a ship's equipment are included in the value of

the ship and are not shown separately. The figures for both years are inclusive of the output returned on schedules for other trades.

Kind of vessels	1930				1924			
Kind of Vessels	Number	Gross tonnage	Value	Ent- ries	Number	Gross tonnage	Value	
War vessels	6 235	Tons 10,596*	THE RESERVE OF THE PARTY OF THE	No. 4 57	† 176	Tons	£'000	
Steam vessels {	5	345,122	8,500	2	2	247,639	5,041	
Motor vessels :—	‡	‡	16	2	‡	‡	4	
Exceeding 50 tons	40	97,745	2,851	25	)			
gross	\$	‡	50 4	2	$\left.\begin{array}{c} 127\$ \\ 78\$ \end{array}\right.$	21,059§ ‡ ±	525 § 51 §	
Not exceeding 50 ftons gross	230 25	1,816	214 17	35 9		‡	39	
>	273	1,185	126	19	523	19,740	296	
Sailing vessels¶ {	350	İ	59	9	23	‡	4	
7	672	23,736	555	43	612	7,141	164	
Other vessels {	912	‡	64 47	18 11	1,446	‡	99	
Total			13,814				6,234	

<sup>\*</sup> Displacement tonnage.

Average values.—The average selling values per ton of the various kinds of ships, boats, etc., wholly constructed in 1930 and 1924, as calculated from the Census returns, are shown in the following table. It should be borne in mind that the vessels included under the specified descriptions may vary considerably in type and in the materials used in their construction, and that variations of this kind between the two censal years are not accounted for in the values shown. This fact, together with the somewhat different scope of the heading in the two years (see footnote to preceding table), may account for the wide variations in the average value per ton shown for "Sailing vessels."

Average	Average value			
1930	1924	percentage of 1924		
$\begin{array}{c} \mathfrak{L} \\ \text{per ton gross} \\ 24 \cdot 6 \end{array}$	£ per ton gross 20·4	Per cent.  120·6		
$29.2 \atop 117.6$ 30.8	24.8	124.2		
106·6 23·4	15·0 23·0	710.7 101.7		
	1930  £ per ton gross 24 · 6  29 · 2 117 · 6 106 · 6	$ \begin{array}{ c c c c c }\hline 1930 & 1924 \\ \hline & £ & £ \\ per ton gross & 20 \cdot 4 \\ \hline & & & \\ 29 \cdot 2 & & & \\ 117 \cdot 6 & & & \\ 106 \cdot 6 & & & \\ \hline & & & \\ 15 \cdot 0 & & \\ \hline \end{array} $		

<sup>†</sup> Included with motor vessels.

I Not stated.

<sup>§</sup> Including very small amounts in respect of war motor vessels.

<sup>¶</sup> Described as "Sailing vessels and barges (other than war vessels)" for 1924.

<sup>||</sup> Including £11,000 returned on 5 schedules for other trades.

Work of new construction done on ships, boats, etc. not wholly constructed in the year.—The following table gives, for 1930 and 1924, the estimated value of all new constructional work carried out in the year of return on vessels not wholly constructed in the year. Amounts returned on schedules for other trades are included in the table.

Kind of vessels	198	1924	
Kind of Vessels	Value	Value Entries	
	£'000	No.	£'000
War vessels	2,756	12	553
Steam vessels	10,779	71	21,524
Motor vessels:—			A Second
Exceeding 50 tons gross	9,408	47	7
Not exceeding 50 tons gross	2,565*	31	5,262
Sailing vessels†	30	10	184
Other vessels (including floating docks)	1,267	36	266‡
TOTAL	26,805		27,789

\* Including £1,000 returned on 6 schedules for other trades.

† Described as "Sailing vessels and barges (other than war vessels)" for 1924.

\* ‡ Including the value of floating docks, stages and other structural work wholly constructed in the year and of repair work to floating docks. The total value of all work done on these structures in 1924 was £217,000 but the corresponding figure for 1930 is not available for publication.

In addition to the constructional work detailed in the foregoing tables, a total amount of £227,000 (30 entries) was recorded in respect of *ships' and boats' fittings* (blocks, masts, spars, oars, etc.) made in 1930. Of this sum, £112,000 (15 entries) was recorded on schedules other than that for the Shipbuilding Trade. The corresponding total for 1924 was £348,000.

Repair work done on ships, boats, etc.—The value of repair work carried out on vessels of all kinds in 1930 and 1924, as returned on schedules for all trades, is shown in the following table:—

Kind of vessels	19	1924	
Kind of vessels	Value	Entries	Value
	£'000	No.	£'000
War vessels	9	13	1 11000
Steam vessels	12,575*	233	} 14,958
Motor vessels :—		singery to but	
Exceeding 50 tons gross	1,017	95	7 000
Not exceeding 50 tons gross	128	65	339
Sailing vessels†	166	62	577
Other vessels	500	112	241
Unspecified vessels	854‡	38	196
TOTAL	15,249	The test	16,311

\* Including £45,000 returned on 4 schedules for other trades.

† Described as "Sailing vessels and barges (other than war vessels)" for 1924.

‡ Including £12,000 returned on 3 schedules for other trades.

An aggregate amount of £693,000 (38 entries) was also returned for 1930 as received for painting, plumbing and other work done on ships: of this total, £91,000 (12 entries) was recorded on schedules for other trades. This kind of work was not separately distinguished in 1924.

Summary of production.—The particulars dealt with in the preceding paragraphs of this report are summarised below:—

Construction of the second of	1930	1924
Kind of output	Value	Value
Vessels wholly constructed in the year  New constructional work on vessels not wholly constructed in the year  Repair work  Painting, plumbing and other work done on ships	£'000 13,814 26,805 15,249 693 227	£'000 6,234 27,789 } 16,311 348
Ships' and boats' fittings	56,788	50,682

Volume of production in 1930 and 1924.—The following table compares the volume of production (including repair work) in the Shipbuilding Trade in Great Britain in 1930 and 1924. For the purpose of revaluing the 1924 figures the price relationships shown in the table on page 315 have been used for all work of new construction and for repair work. The calculation for war vessels has been made on the same basis as that for motor vessels.

	To	1930		
Kind of output	1930	199	24	as a
	As returned	As returned	At 1930 average values	percentage of 1924
The second secon	£'000	£'000	£,000	Per cent.
New construction :-				
War vessels	4,034	553	687	587
Steam vessels	19,328	26,572	32,046	60
Motor vessels	15,109	5,877	7,299	207
Sailing vessels and other vessels	2,148	1,021	2,865	75
Repair work on :—	CARRY SATI			12 CONTRACT
War vessels and steam vessels	12,584	14,958	18,050	70
Motor vessels	1,145	339	421	272
Sailing vessels and other vessels	666	818	1,308	63
Unspecified vessels	854	196	241*	§
Ships' and boats' fittings	227	348	435†	52
Painting, plumbing and other work done on ships	693	‡		d party
TOTAL	56,788	50,682	63,352	90

\* Based on the aggregates of the preceding three items.

§ This figure would have no significance.

† Based on average values of all preceding items.

‡ Not recorded separately.

Exports and imports.—The absence both of complete particulars of number and tonnage of ships, boats, etc., wholly constructed in the year, and of information regarding vessels commenced in years prior to the censal years and finished in those years renders impracticable any comparison of production with overseas trade. The following table shows the number and gross tonnage of vessels exported from the United Kingdom in 1930 and 1924, together with corresponding particulars of vessels imported and retained. The export figures include all new ships and boats built in the United Kingdom and sold to owners abroad, if not registered in the United Kingdom, or if so registered only for the purpose of delivery or transfer abroad. Old vessels sold to owners abroad are not included.

	Exp	orts	Retained imports		
Ships and boats (new), complete	Number	Gross tonnage	Number	Gross tonnage	
War vessels $$ $\left\{\begin{array}{ll} 1930 \\ 1924 \end{array}\right\}$	8	5,331*		E E	
Steam vessels 1930	131	287,450	000		
Motor vessels:— Exceeding 50 tons gross 1930 Not exceeding 50 tons	69	354,918		SEASTREE S	
gross 1930	169	1,092	21	48	
Total—Steam and motor § 1930	369	643,460	21	48	
§ vessels \ 1924	150	151,114	8	78	
Sailing vessels \[ \begin{align*} \ 1930 \\ 1004 \end{align*}	83	259	2	7	
(1924	28	76	20	99	
Other vessels $\cdots$ $\begin{cases} 1930 \\ 1924 \end{cases}$	678 588	12,103 10,282	221 199	8,856 6,945	

<sup>\*</sup> Displacement tonnage.

Production of marine machinery by shipbuilding firms.—As explained on page 311, shipbuilding firms that maintained their own marine engineering shops furnished separate returns at both Censuses on schedules for the Mechanical Engineering Trade. The following table shows, in summary form, the output of marine machinery and parts thereof made in these shops in 1930 and 1924. It should be understood that this output is accounted for in the aggregates for the Mechanical Engineering Trade and does not form part of the output of the Shipbuilding Trade as defined for purposes of the present report. The figures for both years relate to firms in Great Britain only.

Marine machinery	193	0	1924		
Marine machinery	Quantity	Value	Quantity	Value	
100	No. of sets	£'000	No. of sets	£'000	
Engines :—	lab testini				
Steam reci- Complete	199	2,008	204	2,295	
procating \ Replacement parts		31		8	
Steam   Complete	88	3,689	24	1,262	
turbine \ Replacement parts		31		8	
Internal   Complete	513	5,068	1.059	1,887	
tion Replacement parts		207		28	
	Number		Number		
Complete	391	1,260	429	1,057	
$\cdots$ oilers $\cdots$ $\left\{ egin{array}{ll} Complete \dots & \dots \\ Replacement & parts \end{array} \right.$		8		4	
other marine Complete		973		505	
machinery \( \frac{Replacement parts}{} \)		152		40	
TOTAL		13,427		7,094	

Other products.—In addition to the building of ships, boats, etc., and the manufacture of ships' fittings, the following output was recorded for 1930 and 1924 by firms that made their returns on schedules for the Shipbuilding Trade, and is dealt with in the reports on those trades in which such output was principally recorded.

attended and a moral opening of article	1930	1924
Kind of output	Value	Value
	£,000	£'000
Machinery and plant	32	16
Other iron and steel manufactures	42	127
Building and contracting work and constructional		
engineering	163	*
Other goods made	191	36
TOTAL	428	179

<sup>\*</sup> Not separately recorded.

Other work done.—Apart from the constructional, repair and other work done on ships which is detailed in the preceding paragraphs, firms that made returns on schedules for the Shipbuilding Trade stated that they received a total of £355,000 for other kinds of work done in 1930, the corresponding figure for 1924 being £338,000.

#### Employment and Wages

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

D	Males		Females		Total	
Persons employed	Under 18	All	Under 18	All ages	Under 18	All
1930 Operatives (average for the year) Administrative, technical and clerical staff (as at 18th	12,766	114,399	99	836	12,865	115,235
October)	694	7,141	135	1,195	829	8,336
TOTAL	13,460	121,540	234	2,031	13,694	123,571
Operatives (average for the year) Administrative, technical and	12,834	123,676	107	793	12,941	124,469
clerical staff (as at 18th October)	792	8,430	136	1,422	928	9,852
TOTAL	13,626	132,106	243	2,215	13,869	134,321

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 212-3.

#### 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:—

		1930		1924		
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
Prime movers	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines Steam turbines Internal combustion engines :—	6,342 10,030	2,191	8,533 10,030	11,148 3,660	5,335 —	16,483 3,660
Gas Petrol, kerosene or	3,636	1,557	5,193	6,666	4,337	11,003
_ other light oils	913	447	1,360	909	1,211	2,120
Heavy oils	3,073	35	3,108	731	590	1,321
Water engines	60		60	_		
TOTAL	24,054	4,230	28,284	23,114	11,473	34,587

	will Drowner	1930	M. Z.		1924	
Power equipment	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by Reciprocating steam engines Steam turbines Internal combustion	932 7,000	1,062	1,994 7,000	1,304 2,500	2,359 —	3,663 2,500
engines:— Gas Petrol, kerosene or other light	1,420	820	2,240	2,301	2,489	4,790
oils Heavy oils	226 1,121	150 17	376 1,138	32 408	681 465	713 873
TOTAL	10,699	2,049	12,748	6,545	5,994	12,539
ELECTRIC MOTORS Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	н.р.
Electricity generated in same works Electricity generated in other works	32,557	489	33,046	16,589	1,067	17,656
under same owner- ship Purchased electricity	1,604 245,059	1,091 31,391	2,695 276,450	232,435	69,032	301,467
TOTAL	279,220	32,971	312,191	249,024	70,099	319,123

#### 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	${f Tons} \ {f 38,536} \ {f 1,072}$	Tons 118,108* 45,233*	Tons 338 79
Electricity used for all purposes:— Generated in same works Generated in other works under a Purchased	 same ownership	  	B.T.U. (Kwhrs.) '000 16,628 4,276 95,767

<sup>\*</sup> These figures were recorded by firms representing 95.0 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 products and work done (Gross				
output)	£'000	36,293	21,006	57,299
Cost of materials used	,,	17,924	12,095	30,019
Paid for work given out to other firms	,,	1,310	50	1,360
Net output	,,	17,059	8,861	25,920
Average number of persons employed	No.	85,799	37,772	123,571
Net output per person employed	£	199	235	210
Power available:—				
Prime movers	H.P.	26,505	1,779	28,284
Electric motors driven by purchased				
electricity	,,	168,512	107,938	276,450

## II. Production

Natu	re of output	Unit	England and Wales	Scotland	Great Britain
Ships and boats u	Number Displace-	2	4	6	
War vessels		ment tonnage £'000	173 14	10,423 1,264	10,596 1,278
	Number and tonnage	Number Gross	164	71	235
Steam	stated	tonnage £'000	229,988 4,695	. 115,134 3,805	345,122 8,500
vessels	Number stated {	Number £'000	2 4	3 29	5 33
1	Value only stated	£,000	6	10	16
Motor vessels:		Number	28	12	40
Exceeding	Number and tonnage stated	Gross tonnage £'000	73,974	23,771 825	97,745
50 tons d	Number stated {	Number,	2,026 3 *	5 5 50	2,851 8 50
	Value only stated	£'000 Number	4 182	- 48	4 230
Not ex-	Number and tonnage	Gross			
ceeding 50 tons	siaiea	£'000	1,361 179	455 35	1,816 214
gross	Number stated {	Number £'000	24 17	*	25 17
	Number and tonnage	Number Gross	48	225	273
Sailing vessels	stated	tonnage £'000	838 84	347 42	1,185 126
PERMIT	Number stated {	Number £'000	50 10	300	350 59

Nature of output	Unit	England and Wales	Scotland	Great Britain
Ships and boats wholly constructed in the			0000000	
year—cont.:—	Number	607	65	672
(Number and tonnage)	Gross	17,274	6,462	23,736
Other stated	tonnage £'000	296	259	555
Transpla (	Number	845	67	912
Number statea	£'000	59	5	64
Value only stated	£'000	32	4	36
Total value of ships and boats wholly constructed in year of return	£'000	7,426	6,377	13,803
Work of new construction done in the year on ships and boats not wholly constructed in the year:—				
War vessels	£'000	2,286	470	2,756
Steam vessels	"	4,507	6,272	10,779
Motor vessels:—  Exceeding 50 tons gross		3,795	5,613	9,408
Exceeding 50 tons gross Not exceeding 50 tons gross	"	2,562	2	2,564
Sailing vessels	"	†	†	30
Other vessels (including floating				
docks)	"	†	†	1,267
Total value of new construction work done on ships, boats, etc	£'000	14,058	12,746	26,804
Repair work done on ships, boats, etc.:-				
War vessels	£,000	4	5	9
Steam vessels	,,	11,150	1,380	12,530
Motor vessels:—		910	107	1,017
Exceeding 50 tons gross  Not exceeding 50 tons gross	,,	95	33	128
Sailing vessels	,,	160	6	166
Other vessels	,,	462	38	500
Vessels not separately distinguished	,,	779	63	842
Total value of repair work done on	4			
ships, boats, etc	£'000	13,560	1,632	15,192
Other goods made:—	E assistable			
Ships' and boats' fittings (blocks,				
masts, spars, oars, etc.)	£'000	87	28	115
Machinery and plant Other iron and steel manufactures	"	28 39	4 3	42
Building and contracting and con-	"	00		
structional engineering	,,	151	12	163
Other goods	,,	172	19	191
Other work done:		A	mount rece	ived
Painting, plumbing and other work		501		1 602
on ships Repair work other than on ships	"	150		183
Other work	"	121	51	172
Tomat Walter on Proping AND				
TOTAL VALUE OF PRODUCTS AND WORK DONE (GROSS OUTPUT)	£'000	36,293	21,006	57,299
* Less than £500				

\* Less than £500.

<sup>†</sup> Owing to the possible disclosure of information relating to individual firms, separate figures for England and Wales and for Scotland cannot be given.

# III. Employment

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

Persons employed	М	Males		Females		Males and females	
Torsons employed	Under 18	All ages	Under 18	All	Under 18	All ages	
England and Wales:— Operatives Administrative, etc.*	8,031 449	70,966 4,996	20 87	375 721	8,051 536	71,341 5,717	
TOTAL	8,480	75,962	107	1,096	8,587	77,058	
Scotland:— Operatives Administrative, etc.*	3,503 245	32,386 2,145	69 48	380 474	3,572 293	32,766 2,619	
TOTAL	3,748	34,531	117	854	3,865	35,385	
Great Britain:— Operatives Administrative, etc.*	11,534 694	103,352 7,141	89 135	755 1,195	11,623 829	104,107 8,336	
TOTAL	12,228	110,493	224	1,950	12,452	112,443	

<sup>\*</sup> Administrative, technical and clerical staff.

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

Week	Males and females		Week	Males and females			
ended	England and Wales	Scotland	Great Britain	ended	England and Wales	Scotland	Great Britain
Jan. 18 Feb. 15 Mar. 15 Apl. 12 May 17 June 21	91,746 87,798 85,835 85,758 84,175 79,772	37,025 36,310 36,918 39,208 37,295 34,782	128,771 124,108 122,753 124,966 121,470 114,554	July 19 Aug. 16 Sept. 13 Oct. 18 Nov. 15 Dec. 13	82,657 77,573 74,055 71,341 71,001 69,271	35,379 34,540 33,389 32,766 32,165 32,063	118,036 112,113 107,444 104,107 103,166 101,334
Average 1	FOR THE 1	2 MONTHS	S	And and	80,082	35,153	115,235

IV. Power

# Particulars of prime movers, electric generators and electric motors

Parrier annimont	England and Wales		Scotland		Great Britain		
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.	H.P.	H.P.	H.P.	H.P.	H.P.	
Reciprocating steam engines Steam turbines Internal combustion	5,061 10,030	2,154	1,281 —	37 —	6,342 10,030	2,191	
engines:— Gas Petrol, kerosene or	3,504	1,557	132	_	3,636	1,557	
other light oils Heavy oils Water engines	756 3,034 60	349 — —	157 39 —	98 35 —	913 3,073 60	447 35 —	
TOTAL	22,445	4,060	1,609	170	24,054	4,230	
Total of prime movers installed	26,5	505	1,	1,779		28,284	
ELECTRIC GENERATORS Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
Reciprocating steam engines Steam turbines Internal combustion	529 7,000	1,062	403	_	932 7,000	1,062	
engines :— Gas Petrol, kerosene or	1,410	820	10	-	1,420	820	
other light oils Heavy oils	196 1,115	110	30 6	40 17	226 1,121	150 17	
TOTAL	10,250	1,992	449	57	10,699	2,049	
TOTAL OF ELECTRIC GENERATORS INSTALLED	12,	242		506	12,	12,748	
ELECTRIC MOTORS Driven by Electricity concreted	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
Electricity generated in same works Electricity generated in other works under same owner-	32,278	439	279	50	32,557	489	
ship Purchased electricity	51		$ \begin{array}{c c}  & 1,553 \\  92,777 \end{array} $	1,091 15,161	1,604 245,059		
TOTAL	184,611	16,669	9 94,609	16,302	279,220	32,971	
TOTAL OF ELECTRIC MOTORS INSTALLED		1,280	11	110,911 312,191		,191	

## V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power*	Tons 35,191 1,072	Tons 3,345	Tons 38,536 1,072
THE PART AND THE PARTY	B.T.U. (Kwhrs.)	B.T.U. (Kwhrs.)	B.T.U. (Kwhrs.)
Electricity used for all purposes:—			
Generated in same works	16,596	32	16,628
Generated in other works under same ownership	3,883	393	4,276
Purchased	54,781	40,986	95,767
Total—Electricity	75,260	41,411	116,671

<sup>\*</sup> In addition, 338 tons of coal and 79 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.