

THE TIMBER (SAWMILLING, ETC.) 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 sawing timber into deals, planks, etc., and in the manufacture of articles of timber other than furniture, wooden crates, cases, boxes, etc., or cooping products. 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	26,835	23,630
Cost of materials used	"	15,830	13,922
Paid for work given out to other firms	"	76	58
Net output	"	10,929	9,650
Average number of persons employed	No.	56,639	48,324
Net output per person employed	£	193	200
Power available :—			
Prime movers	H.P.	72,405	70,196
Electric motors driven by purchased electricity	"	87,563	55,634
Number of returns	No.	1,332	1,315
Number of establishments	"	1,590	*

* Not available.

Deficiencies in 1930 aggregates.—At the 1930 Census 8,892 firms stated that they employed not more than ten persons on the average, the total number of their employees being 31,605, while no information was received from a further 1,186 firms of the same class. These firms had mainly small joinery or carpentry businesses, but large numbers carried out repair and jobbing work on customers' house properties, their general trade being of a similar kind to that of the small firms in the Building and Contracting Trade (see page 179). A small proportion of the returns was received from firms not properly assignable to the Timber Trade. The total number of employees at small establishments in the Timber Trade in 1930 may be estimated at about 33,000, or about 37 per cent. of the aggregate number employed by all firms in the trade.

For 1924, returns were received from 5,140 firms with not more than ten employees and about 2,700 firms failed to make returns. The average number of persons employed by the firms that made returns was 16,882 and it was estimated that not more than 6,500 workpeople were employed at the establishments for which no in-

formation was given. The total of 23,382 formed about 33 per cent. of the estimated aggregate number of employees in the trade as a whole in the year 1924.

The value of the gross output of the small firms in 1924 was £4,769,000, and particulars of the items included in this figure are given below :—

Kind of goods made and work done	Quantity	Value
	Th. cub. ft.	£'000
Sawmill products :—		
Sawn hard woods :—		
Oak... ..	882	189
Other sorts (including unclassified) ... ..	...	197
Total—Sawn hard woods ... ..	...	386
Sawn soft woods :—	Th. loads	
Deals and planks	13·7	104
Other descriptions (including unclassified)	19·7	135
Total—Sawn soft woods	33·4	239
Planed or dressed woods :—		
Floorings	7·5	57
Matchings	6·0	41
Other descriptions (including unclassified)	9·7	128
Total—Planed or dressed woods	23·2	226
Wood, sawn, planed or dressed, not separately distinguished		19
Pit-props and pit-wood		37
Sleepers of all kinds (creosoted or not)		36
Other sawmill products		212
TOTAL—Sawmill products		1,155
Manufactures of timber :—		
Builders' woodwork (window frames, doors, etc.)		274
Portable buildings (bungalows, poultry houses, garages, etc.)		84
Coffins (finished or not)		450
Fences, gates, hurdles, etc.		101
Firewood, shavings, etc., sold		222
Other manufactures of timber		385
TOTAL—Manufactures of timber		1,516
Other products :—		
Furniture and cabinetware of wood		54
Parts of furniture, sold separately		37
Crates, cases and boxes for packing merchandise		62
Other goods made		68
TOTAL—Other products		221
TOTAL—GOODS MADE		2,892

Kind of goods made and work done— <i>cont.</i>	Amount received
	£'000
Work done :—	
Work done on buildings, e.g., fixing roofing, laying flooring, putting in window frames, doors, etc. ...	305
General and jobbing carpentry (other than work on buildings) ...	873
Work done on buildings and general and jobbing carpentry, not separately distinguished ...	479
Work done on commission or "on hire" on timber supplied by other firms or on purchasers' timber :—	
Sawing and planing timber, deals, etc. ...	74
Planing and moulding ...	17
Sawing, planing and moulding, not separately distinguished ...	5
Turning, carving, fret cutting, veneer cutting, etc. ...	84
Creosoting ...	17
Other work... ..	23
TOTAL—WORK DONE	1,877
TOTAL—GOODS MADE AND WORK DONE	4,769

The value of the gross output of the small firms in 1924 was about 17 per cent. of the recorded total for the entire trade. Their exclusion from the 1930 Census mainly affected the results in respect of jobbing carpentry and other work done for customers, the amount returned under these headings by the small firms for 1924 (£1,877,000) being 53 per cent. of the total sum returned by all firms in Great Britain on schedules for this trade; of the total value recorded for 1924 in respect of "Sawmill products" the small firms contributed about 8 per cent. and of "Manufactures of timber" about 18 per cent.

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
	No.	£'000	£'000	No.	£
11-24	624	4,700	1,973	10,687	185
25-49	377	5,931	2,483	12,818	194
50-99	234	7,564	2,944	15,864	186
100-199	76	5,047	2,001	10,097	198
200-299	11	1,371	592	2,539	233
300-399	4	504	227	1,391	164
500-749	6	1,718	709	3,243	219
TOTAL	1,332	26,835	10,929	56,639	193

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 332	7,513	3,416	15,018	227
	1924 322	5,609	2,592	11,905	218
2	1930 131	2,693	935	4,868	192
	1924 137	2,363	912	4,430	206
3	1930 81	1,212	498	3,029	164
	1924 94	1,239	586	2,864	205
4	1930 60	1,658	486	2,424	200
	1924 61	1,480	457	2,222	206
5	1930 105	1,571	686	3,681	186
	1924 96	1,485	620	3,157	196
6	1930 430	7,948	3,489	18,902	185
	1924 413	7,081	3,004	16,103	187
7	1930 27	751	218	1,065	205
	1924 37	803	243	961	253
8	1930 12	116	53	368	145
	1924 11	105	58	323	180
9	1930 49	1,172	373	2,518	148
	1924 39	1,067	356	1,916	186
10	1930 105	2,201	775	4,766	163
	1924 105	2,348	822	4,443	185
TOTAL {	1930 1,332	26,835	10,929	56,639	193
	1924 1,315	23,630	9,650	48,324	200

Northern Ireland.—The following table summarises the particulars (including those for the Wooden Crates, Cases, Boxes and Trunks Trade and the Coopering Trade) 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 goods made and work done (Gross output)	£'000	441	499
Cost of materials used	"	315	295
Net output	"	126	204
Average number of persons employed	No.	897	1,291
Net output per person employed	£	140	158
Power available :—			
Prime movers	H.P.	2,232	3,632
Electric motors driven by purchased electricity...	"	514	400

* For particulars see page xviii.

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

Kind of goods made and work done	1930		1924	
	Quantity	Value	Quantity	Value
	Th. cub. ft.	£'000	Th. cub. ft.	£'000
Sawmill products:—				
Sawn hard woods	48	11	54	15
Sawn soft woods:—	Th. loads		Th. loads	
Deals, planks and battens ...	19.4	105	16.3	99
Boards (not planed or dressed)	2.2	11	2.3	14
Other sorts	2.3	11	2.1	14
Not separately distinguished	—	—	0.5	3
Total—Sawn soft woods ...	23.9	127	21.2	130
Planed or dressed woods:—				
Floorings	14.1	72	5.7	34
Matchings	10.1	55	5.6	34
Other sorts	8.2	51	1.3	9
Not separately distinguished	—	—	0.1	1
Total—Planed or dressed woods	32.4	178	12.7	78
Other sawmill products ...	...	10	...	8
TOTAL—Sawmill products ...	...	326	...	231
Manufactures of timber:—				
Crates, cases and boxes for packing merchandise ... ..	...	36	...	118
Chests, travelling trunks and other boxes, cases, etc., of wood	...	6	—	—
Firewood, shavings, etc., sold ...	...	10	...	14
Other manufactures of timber, including builders' woodwork, coffins, bobbins, furniture, wood-wool, fibre, etc., portable wooden buildings, hay collectors and barrels ... ..	...	51	...	86
TOTAL—Manufactures of timber	...	103	...	218
Work done:—		Amount received		Amount received
General and jobbing carpentry	...	*	...	13
Work done on commission or "on hire" on timber supplied by other firms or on purchasers' timber ... ..	...	12	...	37
TOTAL—Work done ... ..	...	12	...	50
TOTAL VALUE OF GOODS MADE AND WORK DONE (GROSS OUTPUT)...	...	441	...	499

* Less than £500.

Sub-divisions of the industry.—In the following table the general results for 1930 are grouped to show separately the particulars recorded by three broad classes of firms. The table indicates the high proportion which the cost of materials formed of the gross output recorded by firms that were "sawmillers only" and their greater use of mechanical power compared with the other two groups. Corresponding particulars for the year 1924 are not available.

Group	Number of returns	Gross output	Net output	Average number of persons employed	Net output per person employed	Power available*
	No.	£'000	£'000	No.	£	H.P.
Sawmillers only ...	375	10,077	2,926	14,760	198	63,810
Sawmillers and manufacturers ...	336	7,686	3,225	18,468	175	55,101
All others	621	9,072	4,778	23,411	204	41,057
TOTAL	1,332	26,835	10,929	56,639	193	159,968

* Prime movers and electric motors driven by purchased electricity.

Production

Principal products.—The following table shows the value and, where available, the quantity of the specified sawmill products and manufactures of timber made in 1930 and 1924. These particulars do not include the quantities and selling values of timber sawn, planed, etc., "on hire" to customers' orders (see page 33).

Kind of goods	1930						1924	
	Returned on schedules for						Total	
	The Timber (Sawmilling, etc.) Trade			All trades				
	Quantity	Value	Enteries	Quantity	Value	Enteries	Quantity	Value
	Th. cub. ft.	£'000	No.	Th. cub. ft.	£'000	No.	Th. cub. ft.	£'000
Sawmill products:—								
Sawn hard woods:—								
Mahogany	449	185	179	453	187	186	650	314
Walnut	25	11	50	27	11	57	19	9
Teak	154	110	145	156	111	151	177	109
Oak	4,809	1,088	437	4,837	1,094	455	4,995	1,103
Ash	581†	142†	203	587†	144†	209		
Beech	546†	87†	124	556†	88†	129		
Elm	1,558†	218†	204	1,602†	226†	210	6,241	1,266
Other sorts	1,754	379	213	1,793	386	224		
Not separately distinguished ...	2,490	565	130	2,575	584	146	946	238
Total—Sawn hard woods	12,366	2,785	...	12,586	2,831	...	13,028	3,039

† So far as separately recorded.

Kind of goods	1930						1924	
	Returned on schedules for						Total	
	The Timber (Sawmilling, etc.) Trade			All trades				
	Quantity	Value	Entries	Quantity	Value	Entries	Quantity	Value
Sawmill products— <i>cont.</i>	Th. loads	£'000	No.	Th. loads	£'000	No.	Th. loads	£'000
Sawn soft woods:—								
Deals, planks and battens ...	260.2	1,572	317	275.4	1,663	335	209.4	1,493
Boards (not planed or dressed) ...	159.4	957	305	163.8	985	322	162.8	1,078
Other descriptions	104.0	535	212	105.7	546	222	98.2	800
Not separately distinguished ...	55.2	308	39	56.3	314	49	73.0	477
Total—Sawn soft woods	578.8	3,372	...	601.2	3,508	...	543.4	3,848
Planed or dressed woods:—								
Floorings ...	248.5	1,588	297	252.0	1,626	313	162.0	1,189
Matchings ...	141.1	877	290	142.5	892	302	92.1	696
Other descriptions (mouldings, casings, etc., wood for making boxes, etc.)	274.0	2,431	355	291.8	2,532	393	178.3	1,692
Not separately distinguished ...	33.3	227	27	33.8	230	32	69.1	420
Total—Planed or dressed woods ...	696.9	5,123	...	720.1	5,280	...	501.5	3,997
Sawn, planed or dressed woods, not separately distinguished ...	—	—	—	—	—	—	10.9	87
							*	325
Pit-props and pit-wood sleepers of all kinds (creosoted or not)	338.7	989	103	339.3	990	106	302.3	881
Veneers and panel wood ...	329.8	1,202	88	329.8	1,202	88	210.1	1,028
	4.9	161	3	4.9	161	3	4.3	220
	*	82	10	*	82	10	*	116
Wood paving blocks	22.9	246	31	22.9	246	31	22.5	154
	*	15	10	*	67	21	*	372
Other sawmill products	32.6	186	37	33.9	186	39	*	372
	*	296	30	*	299	37		
TOTAL—Sawmill products	...	14,457	...	...	14,852	...	...	14,067
Manufactures of timber:	Th. gross			Th. gross			Th. gross	
Tool handles ...	87.4	137	32	87.5	138	33	45.4	101
	*	17	9	*	55	26	*	168
	Th. sq. ft.			Th. sq. ft.			Th. sq. ft.	
Plywood ...	10,367	438	25	10,710	442	27	*	128†
	*	96	6	*	96	6		
Lasts, trees, clog soles, wooden heels and other wood goods for the boot and shoe trades ...	...	188	17	...	197	20	...	291†

* Quantity not stated.

† So far as separately recorded.

Kind of goods	1930						1924	
	Returned on schedules for						Total	
	The Timber (Sawmilling, etc.) Trade			All trades				
	Quantity	Value	Entries	Quantity	Value	Entries	Quantity	Value
Manufactures of timber— <i>cont.</i>	£'000	No.		£'000	No.		£'000	
Builders' woodwork (window frames, doors, etc.) ...	4,089	389	...	5,237	1,036	...	3,585	
Portable wooden buildings (bungalows, poultry houses, garages, etc.) ...	1,069	166	...	1,182	475	...	670†	
Horticultural woodwork (rustic, and garden furniture, etc.) ...	355	73	...	381	88	...	219†	
Domestic woodware (bread platters, trays, pastry boards, washboards, spoons and forks, clothes pegs, broom handles, skewers and the like) ...	279	67	...	305	83	...	188	
Exhibition stands, theatrical scenery, etc. ...	160†	10	...	162†	12	...	111†	
Coffins (finished or not) ...	300	98	...	376	244	...	454	
Fences, gates, hurdles, etc. ...	518	248	...	531	291	...	520	
Signs and signwriting	304†	19	...	377†	41	...	251†	
Ladders and steps of all kinds ...	150	103	...	199	124	...		
Wood accessories for the engineering and textile trades:—								
Patterns ...	51	20	...	62	28	...		
Bobbins ...	86	22	...	87	24	...	1,175	
Other and unspecified accessories	78	26	...	127	36	...		
Other and unspecified wood goods ...	283	75	...	343	98	...		
Wood wool, fibre, flour, etc. ...	170	21	...	193	32	...	160†	
Firewood, shavings, etc., sold ...	149	471	...	190	580	...	243	
Corks, cork mats and other manufactures of cork ...	376	26	...	464	32	...	569	
TOTAL—Manufactures of timber ...	9,293	...	...	11,144	...	...	8,833	
TOTAL—PRINCIPAL PRODUCTS ...	23,750	...	...	25,996	...	...	22,900	

† So far as separately recorded.

Prices.—The average selling values of sawmill products and tool handles in 1930 and 1924, as calculated from the Census returns, are shown in the following table. In the absence of quantitative particulars of other manufactures of timber, the average selling values of such goods cannot be given.

Kind of goods	Average value		1930 as a percentage of 1924
	1930	1924	
	£ per thous. cubic feet	£ per thous. cubic feet	Per cent.
Sawmill products:—			
Sawn hard woods:—			
Mahogany	412	483	85.3
Walnut	424	504	84.1
Teak	713	612	116.5
Oak	226	221	102.3
Sawn soft woods:—	£ per load	£ per load	
Deals, planks and battens ...	6.04	7.13	84.7
Boards (not planed or dressed) ...	6.01	6.62	90.8
Planed or dressed woods:—			
Floorings	6.45	7.34	87.9
Matchings	6.26	7.56	82.8
Pit-props and pit-wood	2.92	2.91	100.3
Sleepers of all kinds	3.64	4.89	74.4
Veneers and panel wood	32.64	50.92	64.1
Tool handles	£ per gross 1.58	£ per gross 2.22	71.2

Volume of production in 1930 and 1924.—The following table compares the volume of production of sawmill products and manufactures of timber other than furniture, wooden crates, etc., 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	Per cent.
	£'000	£'000	£'000	
Sawmill products:—				
Sawn hard woods:—				
Mahogany	187	314	268	70
Walnut	11	9	8	138
Teak	111	109	127	87
Oak	1,094	1,103	1,128	97
Other sorts	844	1,266	1,160	73
Not separately distinguished...	584	238	229	*
Total—Sawn hard woods ...	2,831	3,039	2,920	97

* This figure would have no significance.

Kind of goods	Total production			1930 as a percentage of 1924
	1930	1924		
	As returned	As returned	At 1930 average values	Per cent.
	£'000	£'000	£'000	
Sawmill products— <i>cont.</i>				
Sawn soft woods:—				
Deals, planks and battens ...	1,663	1,493	1,265	131
Boards (not planed or dressed)	985	1,078	979	101
Other descriptions	546	800	507	108
Not separately distinguished...	314	477	389	*
Total—Sawn soft woods ...	3,508	3,848	3,140	112
Planed or dressed woods:—				
Floorings	1,626	1,189	1,045	156
Matchings	892	696	576	155
Other descriptions (mouldings, casings, etc., wood for making boxes, etc.)	2,532	1,692	1,548	164
Not separately distinguished...	230	420	372	*
Total—Planed or dressed woods	5,280	3,997	3,541	149
Sawn, planed or dressed woods, not separately distinguished	—	412	363†	—
Pit-props and pit-wood	990	881	884	112
Sleepers of all kinds (creosoted or not)	1,202	1,028	765	157
Veneers and panel wood	243	336	215	113
Other sawmill products	798	526	459†	174
TOTAL—Sawmill products ...	14,852	14,067	12,287	121
Manufactures of timber:—				
Tool handles	193	269	192	101
Other manufactures of timber ...	10,951	8,564	7,950†	138
TOTAL	25,996	22,900	20,429	127

* This figure would have no significance.

† Based on average value of preceding items in table coupled with an allowance for wages.

Exports and imports.—In view of the deficiencies in the production aggregates, referred to elsewhere in this report, reliable comparisons with exports and imports of timber products are impracticable. The following table gives particulars of the retained imports of hewn timber and sawmill products in 1930 and 1924:—

Kind of timber	Retained imports	
	1930	1924
	Th. cub. ft.	Th. cub. ft.
Hewn hard woods :—		
Mahogany	1,503	2,473
Walnut	192	38
Oak	1,013	1,341
Teak	273	152
Other sorts	2,452	2,895
Total—Hewn hard woods	5,433	6,899
	Th. loads	Th. loads
Hewn soft woods (fir, pine, spruce, etc.)	495	376
	Th. cub. ft.	Th. cub. ft.
Sawn hard woods :—		
Mahogany	1,150	1,432
Walnut	392	480
Oak	12,955	8,689
Teak	1,761	1,796
Other sorts	15,716	12,915
Total—Sawn hard woods	31,974	25,312
	Th. loads	Th. loads
Sawn soft woods :—		
Deals, planks or battens	2,892	2,188
Boards (not planed or dressed)	1,269	1,152
Other sorts	674	1,784
Total—Sawn soft woods	4,835	5,124
Planed or dressed woods :—		
Floorings	425	349
Matchings	83	75
Other sorts	114	80
Total—Planed or dressed woods	622	504
Other descriptions :—		
Pit-props or pit-wood	2,783	3,004
Sleepers of all kinds	532	452
Veneers and panel wood	5	2

Exports of similar products from the United Kingdom were as follows :—

Wood and timber	Exports	
	1930	1924
	Th. loads	Th. loads
Hewn	1.6	0.7
Sawn	10.7	15.7
Planed	3.4	2.9
Other descriptions	13.9	33.9

The following table gives particulars of the exports and retained imports in 1930 and 1924 of the manufactures of wood and timber to which this report relates :—

Kind of goods	Exports		Retained imports	
	1930	1924	1930	1924
	Th. gross	Th. gross	Th. gross	Th. gross
Tool handles	11	12	89†	100
	Th. sq. ft.	Th. sq. ft.	Th. sq. ft.	Th. sq. ft.
Plywood	2,212	*	361,422	*
	Th. doz. prs.	Th. doz. prs.	Th. doz. prs.	Th. doz. prs.
Wooden heels	23	*	769	*
	£'000	£'000	£'000	£'000
Builders' woodwork (window frames, doors, etc.)	97	62	1,210	701
Domestic woodware (bread platters, trays, etc.)	15	19	322	217
Manufactures of wood and timber, not elsewhere specified (excluding furniture and cabinet-ware, chip boxes and tea chests, metal lined)	581	522	3,073	3,131

* Not separately recorded; included with manufactures of wood and timber, not elsewhere specified.

† Other than those liable to duty.

Work done for the trade or on commission, etc.—The total amount recorded as received for work done for the trade in 1930 was £1,432,000, the corresponding total for 1924 being £1,880,000; these figures include, for 1930, £99,000 and for 1924, £223,000, recorded for similar work on schedules for other trades. The principal kinds of work included in these totals were as follows :—

Kind of work done	Value	
	1930	1924
	£'000	£'000
Work done on buildings, e.g., fixing roofing, laying flooring, putting in window frames, doors, etc.*	731	483
General and jobbing carpentry (other than work on buildings)	233	432
Work done on buildings and general and jobbing carpentry, not separately distinguished	—	65
Work done on commission or "on hire" on timber supplied by other firms or on purchasers' timber :—		
Sawing and planing timber, deals, etc.	250	352
Planing and moulding	82	55
Sawing, planing and moulding, not separately distinguished...	—	116
Turning, carving, fret cutting, veneer cutting	34	65
Creosoting	87	137
Other work	14	28
Work done on commission or "on hire," not separately distinguished	1	147
TOTAL	1,432	1,880

* Excluding the value of timber sawn or goods made at the works of the firm carrying out the work.

In addition, firms that made their returns on schedules for the Timber Trade recorded a total sum of £21,000 as received in 1930 for work done for other trades.

Other products.—In addition to the output shown in the table of principal products on pages 27-9, the following goods were produced in 1930 and 1924 by firms that made their returns on schedules for the Timber 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
Staves (including barrel ends and other parts of casks and barrels)	87	28
Furniture and cabinetware of wood, upholstered or not (including wireless cabinets, gramophone cases, etc.)	277	289
Parts of furniture (sofa frames, chair frames, etc.) sold separately	124	76
Other furniture and cabinetware	25	
Shop and office fittings	480	92
Crates, cases and boxes for packing merchandise ...	469	554
Chests, travelling trunks and other boxes, cases, etc., of wood (except cabinetware)	39	94
Bodies, wheels, spokes and other wood parts of carriages, wagons, etc.	66	137
Wheelbarrows and other complete vehicles not mechanically propelled	21	
Brushes and parts of brushes	33	92
Sports requisites, toys, etc.	46	
Other goods made... ..	64	
TOTAL	1,731	1,362

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)	7,063	46,977	686	2,402	7,749	49,379
Administrative, technical and clerical staff (as at 18th October)	493	5,875	194	1,385	687	7,260
TOTAL	7,556	52,852	880	3,787	8,436	56,639
1924						
Operatives (average for the year)	6,037	40,312	745	2,388	6,782	42,700
Administrative, technical and clerical staff (as at 18th October)	386	4,617	130	1,007	516	5,624
TOTAL	6,423	44,929	875	3,395	7,298	48,324

Wages.—The available information as to the amount of wages paid in 1930 and 1924 is given on pages 14 and 15.

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	41,111	3,354	44,465	41,438	2,630	44,068
Steam turbines	1,896	90	1,986	355	—	355
Internal combustion engines :—						
Gas	17,039	1,927	18,966	21,181	1,985	23,166
Petrol, kerosene, or other light oils ...	856	102	958	507	117	624
Heavy oils	4,347	632	4,979	1,254	16	1,270
Water engines	794	—	794	713	—	713
Other prime movers ...	257	—	257	—	—	—
TOTAL	66,300	6,105	72,405	65,448	4,748	70,196
	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
ELECTRIC GENERATORS						
Driven by						
Reciprocating steam engines	7,852	877	8,729	3,905	436	4,341
Steam turbines	1,040	60	1,100	195	—	195
Internal combustion engines :—						
Gas	2,886	971	3,857	2,333	626	2,959
Petrol, kerosene, or other light oils	79	26	105	6	14	20
Heavy oils	1,712	223	1,935	296	—	296
Water engines	36	2	38	11	1	12
TOTAL	13,605	2,159	15,764	6,746	1,077	7,823
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
ELECTRIC MOTORS						
Driven by						
Electricity generated in same works ...	20,806	1,250	22,056	9,090	719	9,809
Electricity generated in other works under same ownership	25	—	25	—	—	—
Purchased electricity	80,762	6,801	87,563	50,433	5,201	55,634
TOTAL	101,593	8,051	109,644	59,523	5,920	65,443

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
	Tons	Tons	Tons
Coal	55,975	12,263*	492
Coke	1,357	2,104*	2
			B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—			
Generated in same works			14,577
Generated in other works under same ownership			24
Purchased			27,612
			TOTAL—Electricity
			42,213

* These figures were recorded by firms representing 86.1 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	23,462	3,373	26,835
Cost of materials used	"	13,624	2,206	15,830
Paid for work given out to other firms... ..	"	57	19	76
Net output	"	9,781	1,148	10,929
Average number of persons employed	No.	49,355	7,284	56,639
Net output per person employed	£	198	158	193
Power available :—				
Prime movers	H.P.	59,719	12,686	72,405
Electric motors driven by purchased electricity	"	80,414	7,149	87,563

II. Production

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
Sawmill products :—				
Sawn hard woods :—				
Mahogany	<i>Th. cu. ft.</i>	290	159	449
	£'000	124	61	185
Walnut	<i>Th. cu. ft.</i>	24	1	25
	£'000	10	1	11
Teak	<i>Th. cu. ft.</i>	101	53	154
	£'000	69	41	110
Oak	<i>Th. cu. ft.</i>	4,361	448	4,809
	£'000	999	89	1,088
Ash	<i>Th. cu. ft.</i>	523‡	58‡	581‡
	£'000	130‡	12‡	142‡
Beech	<i>Th. cu. ft.</i>	417‡	129‡	546‡
	£'000	74‡	13‡	87‡
Elm	<i>Th. cu. ft.</i>	1,455‡	103‡	1,558‡
	£'000	207‡	11‡	218‡
Other sorts	<i>Th. cu. ft.</i>	1,540	214	1,754
	£'000	329	50	379
Not separately distinguished	<i>Th. cu. ft.</i>	2,365	125	2,490
	£'000	541	24	565
TOTAL—Sawn hard woods	<i>Th. cu. ft.</i>	11,076	1,290	12,366
	£'000	2,483	302	2,785

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
<i>Sawmill products—cont.</i>				
<i>Sawn soft woods :—</i>				
Deals, planks and battens	<i>Th. loads</i>	229.9	30.3	260.2
	£'000	1,386	186	1,572
Boards (not planed or dressed)	<i>Th. loads</i>	110.1	49.3	159.4
	£'000	686	271	957
Other descriptions ...	<i>Th. loads</i>	80.5	23.5	104.0
	£'000	368	167	535
Not separately distinguished	<i>Th. loads</i>	52.1	3.1	55.2
	£'000	296	12	308
TOTAL—Sawn soft woods ...	<i>Th. loads</i>	472.6	106.2	578.8
	£'000	2,736	636	3,372
<i>Planed or dressed woods :—</i>				
Floorings	<i>Th. loads</i>	208.6	39.9	248.5
	£'000	1,328	260	1,588
Matchings	<i>Th. loads</i>	121.8	19.3	141.1
	£'000	742	135	877
Other descriptions ...	<i>Th. loads</i>	239.0	35.0	274.0
	£'000	2,100	331	2,431
Not separately distinguished	<i>Th. loads</i>	23.9	9.4	33.3
	£'000	164	63	227
TOTAL—Planed or dressed woods	<i>Th. loads</i>	593.3	103.6	696.9
	£'000	4,334	789	5,123
Pit props and pit wood ...	<i>Th. loads</i>	104.6	234.1	338.7
	£'000	338	651	989
Sleepers of all kinds (creosoted or not)	<i>Th. loads</i>	290.7	39.1	329.8
	£'000	1,065	137	1,202
Wood paving blocks	<i>Th. loads</i>	22.1	0.8	22.9
	£'000	244	2	246
Veneers and panel wood ...	£'000†	13	2	15
	<i>Th. loads</i>	4.9	—	4.9
Other sawmill products ...	£'000	161	—	161
	£'000†	82	—	82
TOTAL—SAWMILL PRODUCTS ...	<i>Th. loads</i>	27.7	4.9	32.6
	£'000	148	38	186
Manufatures of timber :—	£'000†	292	4	296
	£'000	11,896	2,561	14,457
Tool handles	<i>Th. gross</i>	85.3	2.1	87.4
	£'000	123	14	137
Plywood	£'000†	17	—	17
	<i>Th. sq. ft.</i>	*	*	10,367
Lasts, trees, clog soles, wooden heels and other wood goods for the boot and shoe trades	£'000	*	*	438
	£'000†	*	*	96
TOTAL—MANUFACTURES OF TIMBER	£'000	188	—	188
	£'000	11,896	2,561	14,457

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
<i>Manufatures of timber—cont.</i>				
Builders' woodwork (window frames, doors, etc.)	£'000	3,934	155	4,089
	£'000	1,053	16	1,069
Portable wooden buildings (bungalows, poultry houses, garages, etc.)	£'000	354	1	355
	£'000	*	*	279
Horticultural woodwork (rustic and garden furniture, etc.)	£'000	*	*	160†
	£'000	250	50	300
Domestic woodware (bread platters, trays, pastry boards, washboards, spoons and forks, clothes pegs, broom handles, skewers and the like)	£'000	465	53	518
	£'000	334	42	376
Exhibition stands, theatrical scenery, etc.	£'000	304†	—	304†
	£'000	*	*	170
Coffins (finished or not)	£'000	107	42	149
	£'000	148	2	150
Fences, gates, hurdles, etc.	£'000	51	—	51
	£'000	27	59	86
Corks, cork mats and other manufactures of cork	£'000	59	19	78
	£'000	266	17	283
Signs and signwriting	£'000	8,786	507	9,293
	£'000	56	31	87
Wood wool, fibre, flour, etc.	£'000	253	24	277
	£'000	121	3	124
Firewood, shavings, etc., sold	£'000	25	—	25
	£'000	474	6	480
Ladders and steps of all kinds	£'000	410	59	469
	£'000	26	13	39
Wood accessories for the engineering and textile trades :—	£'000	59	7	66
	£'000	20	1	21
Patterns	£'000	32	1	33
	£'000	45	1	46
Bobbins	£'000	59	5	64
	£'000	266	17	283
Other and unspecified accessories ...	£'000	8,786	507	9,293
	£'000	56	31	87
Other and unspecified wood goods ...	£'000	253	24	277
	£'000	121	3	124
TOTAL—MANUFACTURES OF TIMBER	£'000	25	—	25
	£'000	474	6	480
Staves (including barrel ends and other parts of casks and barrels)	£'000	410	59	469
	£'000	26	13	39
Furniture and cabinetware of wood upholstered or not (including wireless cabinets, gramophone cabinets, etc.)	£'000	59	7	66
	£'000	20	1	21
Parts of furniture (sofa frames, chair frames, etc.) sold separately	£'000	32	1	33
	£'000	45	1	46
Other furniture and cabinetware ...	£'000	59	5	64
	£'000	8,786	507	9,293
Shop and office fittings	£'000	56	31	87
	£'000	253	24	277
Crates, cases and boxes for packing merchandise	£'000	121	3	124
	£'000	25	—	25
Chests, travelling trunks and other boxes, cases, etc. of wood (except cabinetware)	£'000	474	6	480
	£'000	410	59	469
Bodies, wheels, spokes and other wood parts of carriages, wagons, etc. ...	£'000	26	13	39
	£'000	59	7	66
Wheelbarrows and other complete vehicles not mechanically propelled ...	£'000	20	1	21
	£'000	32	1	33
Brushes and parts of brushes	£'000	45	1	46
	£'000	59	5	64
Sports requisites, toys, etc.	£'000	8,786	507	9,293
	£'000	56	31	87
Other goods made	£'000	253	24	277
	£'000	121	3	124
TOTAL—GOODS MADE	£'000	25	—	25
	£'000	474	6	480

Kind of goods made and work done	Unit	England and Wales	Scotland	Great Britain
		Amount received	Amount received	Amount received
Work done on buildings, e.g. fixing roofing, laying flooring, putting in window frames, doors, etc. § ...	£'000	604	117	721
General and jobbing carpentry ...	"	154	21	175
Work done on commission or "on hire" on timber supplied by other firms or on purchasers' timber:—				
Sawing and planing timber, deals, etc. ...	"	226	7	233
Planing and moulding ...	"	80	2	82
Turning, carving, fret cutting, veneer cutting ...	"	22	||	22
Creosoting ...	"	80	6	86
Other work done ...	"	14	—	14
Work done for trades other than the timber trade ...	"	20	1	21
TOTAL—Work done ...	£'000	1,200	154	1,354
TOTAL VALUE OF GOODS MADE AND WORK DONE (GROSS OUTPUT) ...	£'000	23,462	3,373	26,835

‡ So far as separately recorded.

† Quantity not stated.

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

§ Excluding the value of the timber sawn or goods made at the works of the firm carrying out the work.

|| Less than £500.

III. Employment

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

Persons employed	Males		Females		Males and females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
<i>England and Wales :—</i>						
Operatives ...	6,377	41,038	598	2,131	6,975	43,169
Administrative, etc.* ...	452	5,232	168	1,189	620	6,421
TOTAL ...	6,829	46,270	766	3,320	7,595	49,590
<i>Scotland :—</i>						
Operatives ...	705	6,066	90	277	795	6,343
Administrative, etc.* ...	41	643	26	196	67	839
TOTAL ...	746	6,709	116	473	862	7,182
<i>Great Britain :—</i>						
Operatives ...	7,082	47,104	688	2,408	7,770	49,512
Administrative, etc.* ...	493	5,875	194	1,385	687	7,260
TOTAL ...	7,575	52,979	882	3,793	8,457	56,772

* Administrative, technical and clerical staff.

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

Week ended	Males and females			Week ended	Males and females		
	England and Wales	Scotland	Great Britain		England and Wales	Scotland	Great Britain
Jan. 18 ...	42,364	6,414	48,778	July 19 ...	43,521	6,923	50,444
Feb. 15 ...	42,353	6,212	48,565	Aug. 16 ...	43,123	6,839	49,962
Mar. 15 ...	42,756	6,122	48,878	Sept. 13 ...	43,258	6,702	49,960
April 12 ...	42,892	6,320	49,212	Oct. 18 ...	43,169	6,343	49,512
May 17 ...	43,195	6,475	49,670	Nov. 15 ...	42,847	6,271	49,118
June 21 ...	43,555	6,701	50,256	Dec. 13 ...	42,173	6,020	48,193
AVERAGE FOR THE TWELVE MONTHS ...					42,934	6,445	49,379

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	31,998	2,681	9,113	673	41,111	3,354
Steam turbines	1,020	90	876	—	1,896	90
Internal combustion engines:—						
Gas	15,796	1,882	1,243	45	17,039	1,927
Petrol, kerosene, or other light oils ...	739	96	117	6	856	102
Heavy oils	4,250	632	97	—	4,347	632
Water engines	278	—	516	—	794	—
Other	257	—	—	—	257	—
TOTAL	54,338	5,381	11,962	724	66,300	6,105
TOTAL OF PRIME MOVERS INSTALLED	59,719		12,686		72,405	
ELECTRIC GENERATORS	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines	6,215	774	1,637	103	7,852	877
Steam turbines	572	60	468	—	1,040	60
Internal combustion engines:—						
Gas	2,691	971	195	—	2,886	971
Petrol, kerosene, or other light oils	79	26	—	—	79	26
Heavy oils	1,682	223	30	—	1,712	223
Water engines	7	2	29	—	36	2
TOTAL	11,246	2,056	2,359	103	13,605	2,159
TOTAL OF ELECTRIC GENERATORS INSTALLED	13,302		2,462		15,764	
ELECTRIC MOTORS	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works ...	16,565	1,151	4,241	99	20,806	1,250
Electricity generated in other works under same ownership ...	25	—	—	—	25	—
Purchased electricity	74,494	5,920	6,268	881	80,762	6,801
TOTAL	91,084	7,071	10,509	980	101,593	8,051
TOTAL OF ELECTRIC MOTORS INSTALLED	98,155		11,489		109,644	

V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
	Tons	Tons	Tons
Coal used for power*	43,537	12,438	55,975
Coke used for power*	758	599	1,357
	B.T.U. (Kw.-hrs.)	B.T.U. (Kw.-hrs.)	B.T.U. (Kw.-hrs.)
Electricity used for all purposes:—	'000	'000	'000
Generated in same works	12,884	1,693	14,577
Generated in other works under same ownership	24	—	24
Purchased	25,686	1,926	27,612
TOTAL—Electricity	38,594	3,619	42,213

* In addition, 492 tons of coal and 2 tons of coke (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.