THE WOODEN CRATES, CASES, BOXES AND TRUNKS TRADES.

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Introductory.*

The tables on pages 129 to 132 are based on returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the manufacture of wooden crates, cases and boxes for packing merchandise and of chests, travelling trunks and other wood boxes. The number of such separate returns was 484. About 80 firms to which schedules were sent did not furnish returns, but these firms for the most part had very small establishments and they included some which had ceased operations before the end of the censal year. On the basis of the information available it is estimated that they did not employ more than 360 persons in all and that their total net output probably did not exceed $\frac{4}{50,000}$.

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

* See also the Notes on pp. vii to xv.

Particulars.	Unit.	1924.	1912.	1907.
Value of goods made and work done (Gross	(1000	C 200	3,568	3.011
output)	£'000	6,388	2,249	1,840
Cost of materials used	"	3,622		1,040
Paid for work given out to other firms	,,	16	9	5
Net output	,,	2,750	1,310	1,168
Average number of persons employed (ex- cluding outworkers)	No.	14,726	15,328	12,773
Net output per person employed (excluding outworkers)	£	187	85	91
Mechanical power available :				10.000
Prime movers	H.P.	24,220	11,468	10,203
Electric motors driven by purchased electricity	,,	15,862	5,640	(not recorded

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

(1) The comparability of figures relating to value or cost is affected by the changes which have taken place in the general purchasing power of money.

(2) The Censuses of 1907 and 1912 covered Great Britain and the whole of Ireland, but that of 1924 applied only to Great Britain and Northern Ireland. The exclusion of Southern Ireland in 1924 does not seriously affect the comparability of the figures since, according to the Census of Production taken by the Government of the Irish Free State in respect of the year 1926, the total value of the wooden crates, cases, boxes and trunks made in that year for sale amounted to $\pounds 106,600$.

(3) The Censuses of 1907 and 1924 extended to all firms, however small, but in 1912 firms employing not more than five persons (excluding the proprietors) were required to state only the average number of persons employed by them in the year. According to the information so furnished, the average number of persons employed in the establishments thus excluded was 748, or nearly 5 per cent. of the number employed by the remaining firms, as shown in the above table. Moreover, correspondence on defective returns for 1912 had not been completed when the war compelled suspension of this work. In these circumstances detailed information for 1912 is not given in the remainder of this report. The resulting defects in the aggregate figures given above are, however, not important.

Production.

Detailed information relating to the output in 1924 of the Wooden Crates, etc. Trades is summarised in Table II on page 129.

In addition to the output dealt with in this report, wooden cases, etc. valued, on a cost basis, at $\pounds 90,000$, were made in 1924 by Government Ordnance Factories.*

* See pages 411 and 419.

Principal products.—The following statement shows, for the years 1924 and 1907, the value of the wooden crates, cases, boxes and trunks returned, the figures for each year being inclusive of the output of similar products recorded on schedules for other trades. Particulars of quantities were not required in either year.

1990, 220 John Mariana and Salaha Ang	192	4.	1907.
The first and the above of the second	Returned on schedules for		
Kind of goods.	rchandise ieces) 5,599	All trades.	Total.
		chedules for All	Selling value.
Crates, cases and boxes for packing merchandise	£'000.	£'000.	£'000.
(including rolling boards for cloth pieces) Chests, travelling trunks and other wood boxes			3,604 378
TOTAL VALUE	5,772	7,076	3,982

Crates, cases, boxes, etc., made by manufacturing and merchanting firms for packing their own goods are not included in this statement of output, except in the case of a few large firms which furnished separate returns in respect of their packing-case departments. The aggregate value of the output in 1924 was $77 \cdot 7$ per cent. greater than the value of the output in 1907, but considering the increase in the prices of timber it is doubtful whether there was much, if any, increase in the volume of output in 1924 compared with 1907.

No comparison can be made of production with exports and imports, as wooden crates, boxes, etc., are not separately recorded in the export and import statistics.

Other products.—The firms that made returns on schedules for the Wooden Crates, Cases, Boxes and Trunks Trades also produced, in addition to their main output, a variety of goods, and did classes of work for customers, of kinds that form the main output of other trades and are dealt with in the reports on those trades. The chief particulars are given below :—

The second se	1924.	1907.
Kind of goods.	Selling value.	Selling value.
Deals and other saw-mill products	$\pounds'000.$ 128 305 101 47	£'000. 82 77 8 3
Total value	581	170
Amount received for sawing and other work done on commission	35	14
TOTAL VALUE	616	184

WOODEN CRATES, CASES, ETC.

TIMBER TRADES.

The $\pounds 35,000$ may have included some part of the $\pounds 16,000$ paid to other firms for work given out to them; the major part of that sum was, however, probably paid to firms in other trades.

Cost of materials and work given out.—The cost of materials used by firms that made their returns on schedules for the Wooden Crates, Cases, Boxes and Trunks Trades was returned as $\pounds 3,622,000$ in 1924; the corresponding figure for 1907 was $\pounds 1,840,000$.

The amount paid to other firms for work given out to them was returned as $\pm 16,000$ in 1924, and $\pm 3,000$ in 1907.

Net output.—The net output in 1924 of the firms that made their returns on schedules for the Wooden Crates, Cases, Boxes and Trunks Trades (whose gross output was valued at $\pm 6,388,000$) was $\pm 2,750,000$, that sum representing the total amount by which the value, as delivered, of the aggregate output exceeded the cost, as purchased, of the materials used and the amount paid to other firms for work given out to them.

The net output per head of persons employed in the censal year 1924 was \pounds 187, as compared with \pounds 91 in 1907.

Wages in 1924.

Under the Census of Production Act, 1906, the powers of the Board of Trade to require information do not extend to particulars of the amount of wages paid, and, consequently, no information on this head was secured in connexion with the Census of 1924. As a result, however, of the voluntary enquiry undertaken by the Ministry of Labour into wages and hours in the United Kingdom in 1924, information was obtained as to the total wage-bill of a group of firms in the Wooden Crates, Cases, Boxes and Trunks Trades that made returns both to the Ministry of Labour and to the Census of Production office. According to the Census records this group of firms employed, in the week ended 18th October, 1924, 8,550 operatives, or 61 per cent. of the total of 14,010 operatives for the trades as a whole, and their net output totalled $f_{1,644,000}$, or 60 per cent. of the aggregate net output of $f_{2,750,000}$ for the trades as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £961,000, representing about 59 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on pages 130 and 131. The following table sets out certain particulars for that year together with those relating to the 1907 Census. For the purpose of this comparison, the average numbers of operatives of each sex returned for 1924 have been divided between the two age-groups in the proportions shown by the data relating to the week ended 18th October.

Anna an ana har (an la lin a	Mal	les.	Females. Males and t		l females.	
Average number (excluding outworkers).	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
1924. Operatives Administrative, etc	3,176 68	12,093 1,119	331 34	1,280 234	3,507 102	13,373 1,353
Total	3,244	13,212	365	1,514	3,609	14,726
1907. Wage earners Salaried	2,297 58	10,749 713	291 8	1,244 67	2,588 66	11,993 780
TOTAL	2,355	11,462	299	1,311	2,654	12,773
Average number of out- workers :	2	and a		- 9		

The numbers of operatives recorded month by month in 1924, ranged from 886 below the average, in February, to 946 above the average, in November (see Table IIIB, page 131). The numbers increased in each intervening month except August.

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV on page 132. The following table sets out the particulars for 1924 and 1907 relating to the capacity and kinds of *prime movers* and the capacity of *electric generators* installed.

		1924.		1907.
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.
PRIME MOVERS : Reciprocating steam engines Gas engines Petrol and light oil engines Heavy oil engines Water power	H.P. 16,421 6,049 93 147 128	H.P. 814 568 — — —	H.P. 17,235 6,617 93 147 128	H.P. 5,743 } 4,377 83
Total	22,838	1,382	24,220	10,203
ELECTRIC GENERATORS :	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines Gas engines	1,081 116	436	1,517 116	115
Petrol and light oil engines Heavy oil engines Water power	=		-	15
Total	1,197	436	1,633	130

TIMBER TRADES.

The capacity of *electric motors* recorded in 1924 was as shown below :---

		1924.			
Electric motors.	Ordinarily in use.	In reserve or idle.	Total.		
	H.P.	H.P.	H.P.		
Driven by— Electricity generated in own works Purchased electricity	1,558 13,823	103 2,039	1,661 15,862		

Corresponding information was not required for 1907. The total number of Board of Trade units of electricity purchased for power and lighting purposes in that year was returned as 1,115,000.

Machinery Equipment.

In response to a request for voluntary information as to the kinds and numbers of machines in factories at the end of 1924, firms with an output of $\pounds 4,680,000$, or about 73 per cent. of the gross output of the whole trade, furnished the following information :—

Kind of machines.	In use.	Idle.	Total.	Proportion idle.
	Number.	Number.		Per cent.
Log and deal frames	32	10	42	$24 \cdot 8$
Horizontal and vertical log band saws	14	2	16	12.5
Other saws :	mit star a	A PROTECTION	LI DOMAST	in site
Circular	1,874	171	2,045	8.3
Band	83	9	92	9.8
Horizontal	18	2	20	10.0
Veneer knives :		A SPERIO	in state marks	a little bar has
	19	2	21	9.5
1100	14	$\frac{1}{2}$	16	12.5
Circular.	396	40	436	9.2
Planing and moulding machines	the state of the second state of the second states	11	57	19.3
Turning lathes	46			11.3
Box-nailing machines	478	61	539	11.3
Other sorts	2		2	

TABLES.

I.—Summary of results.

Particulars.	Unit.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
Value of goods made and work done (Gross output)	£'000 ,,	4,862 2,662	- 1,425 905	6,287 3,567	101 55
firms Net output Average number of persons em-		16 2,184	* 520	16 2,704	46
ployed	No. £	11,843 184	2,651 196	14,494 187	232 199
Mechanical power available : Prime movers Electric motors driven by pur-	H.P.	19,867	3,855	23,722	498
chased electricity	,,	14,239	1,562	15,801	61

* Less than £500.

II.—**Production.**

Goods sold or added to stock and work done.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
Goods sold of added to stock and work done.	Selling value.	Selling value.	Selling value.	Selling value.
	£'000.	£'000.	£'000.	£'000.
Crates, cases and boxes for packing merchan- dise, including rolling boards for cloth pieces Chests, travelling trunks and other wood	4,300	1,198	5,498	101
boxes	130	43	173	
Deals and other saw-mill products Casks and barrels	78	50 24	128 33	
Other manufactures of wood	154	71	225	
Firewood, sawdust, etc.	38	9	47	3
Boxes of cardboard or of wood and cardboard	101		101	
Metal boxes and other goods	25	22	47	-
Total value of goods made	4,835	1,417	6,252	101
Work done, on commission or "on hire", on timber supplied :				-
Sawing and planing timber, deals, etc	16*	4*	20*	-
Other work	11*	4*	15*	
Total value of work done	27*	8*	35*	
Total value of goods made and work done (Gross output)	4,862	1,425	6,287	101

* Amount received for work done.

III.—Employment.

A.-NUMBERS EMPLOYED IN WEEK ENDED 18TH OCTOBER, 1924.

	Male	s.	Fema	les.	Males and	fales and females.	
Kind of staff.	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.	
England and Wales : Operatives Administrative, etc.*	2,480 54	10,065 948	265 22	1,122 175	2,745 76	11,187 1,123	
Total	2,534	11,013	287	1,297	2,821	12,310	
Scotland : Operatives Administrative, etc.*	822 14	2,408 147	79 11	205 55	901 25	2,613 202	
Total	836	2,555	90	260	926	2,815	
Great Britain :— Operatives Administrative, etc.*	3,302 68	12,473 1,095	344 33	1,327 230	3,646 101	13,800 1,325	
Total	3,370	13,568	377	1,557	3,747	15,125	
Northern Ireland :	30	209 24	- 1	1 4	30 1	210 28	
Total	30	233	1	5	31	238	
United Kingdom :	3,400	13,801	378	1,562	3,778	15,363	

* Administrative, technical and clerical staff.

B.—Operatives employed in one week in each month of 1924.

England and Wales. (Annual average : Males, 9,642; Females, 1,078; Total, 10,720.)

Week ended.		Males.	Females.	Total.	Week ended.	Males.	Females.	Total.
Jan. 12th		9,213	1,016	10,229	July 19th	9,849	1,113	10.962
Feb. 16th	•••	9,030	1,015	10,045	Aug. 16th	9,651	1,046	10.697
March 15th		9,280	1,038	10,318	Sept. 13th	9,852	1,101	10,953
April 12th	••	9,402	1,037	10,439	Oct. 18th	10,065	1,122	11,187
May 17th		9,411	1,028	10,439	Nov. 15th	10,239	1,180	11,419
June 21st	••	9,531	1,081	10,612	Dec. 13th	10,179	1,156	11,335
				TAT	1241	E.Ports	lana tir	1.05
Scotlan	nd.	(Annual	average :	Males,	2,248 ; Females,	201; T	otal, 2,44	<i>19.</i>)
Jan. 12th	• •	2,095	169	2,264	July 19th	2,273	210	2,483
Feb. 16th	•••	2,047	191	2,238	Aug. 16th	2,276	215	2,491
March 15th	••	2,029	177	2,206	Sept. 13th	2,309	215	2,524
April 12th	•••	2,031	187	2,218	Oct. 18th	2,408	205	2,613
May 17th		2,216	207	2,423	Nov. 15th	2,481	213	2,694
TOI		I FOR DAL						
June 21st	••	2,270	209	2,479	Dec. 13th	2,533	221	2,754
Great Britai	п. (Annual	average :	Males,	11,890 ; Femalé	es, 1,279	; Total,	13,169
Great Britai Jan. 12th	n. (Annual	average : 1,185	Males,	11,890 ; Female	es, 1,279	; Total, 1,323	<i>13,169</i> 13,445
Great Britai Jan. 12th Feb. 16th	n. (Annual 11,308 11,077	average : 1,185 1,206	Males, 12,493 12,283	11,890 ; Female July 19th Aug. 16th	es, 1,279 12,122 11,927	; Total, 1,323 1,261	13,169 13,445 13,188
Great Britai: Jan. 12th Feb. 16th March 15th	n. (Annual 11,308 11,077 11,309	average : 1,185 1,206 1,215	Males, 12,493 12,283 12,524	11,890; Female July 19th Aug. 16th Sept. 13th	es, 1,279 12,122 11,927 12,161	; Total, 1,323 1,261 1,316	13,169 13,445 13,188 13,477
<i>Great Britai</i> : Jan. 12th Feb. 16th March 15th April 12th	n. (Annual 11,308 11,077 11,309 11,433	average : 1,185 1,206 1,215 1,224	Males, 12,493 12,283 12,524 12,657	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th	es, 1,279 12,122 11,927 12,161 12,473	; Total, 1,323 1,261 1,316 1,327	13,169 13,445 13,188 13,477 13,800
<i>Great Britai</i> : Jan. 12th Feb. 16th March 15th April 12th May 17th	n. (Annual 11,308 11,077 11,309 11,433 11,627	average : 1,185 1,206 1,215 1,224 1,235	Males, 12,493 12,283 12,524 12,657 12,862	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th	es, 1,279 12,122 11,927 12,161 12,473 12,720	; Total, 1,323 1,261 1,316 1,327 1,393	13,169 13,445 13,188 13,477 13,800 14,113
<i>Great Britai</i> : Jan. 12th Feb. 16th March 15th April 12th	n. (Annual 11,308 11,077 11,309 11,433	average : 1,185 1,206 1,215 1,224	Males, 12,493 12,283 12,524 12,657	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th	es, 1,279 12,122 11,927 12,161 12,473	; Total, 1,323 1,261 1,316 1,327	13,169 13,445 13,188 13,477 13,800 14,115
Great Britai Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st	n. (Annual 11,308 11,077 11,309 11,433 11,627 11,801	average : 1,185 1,206 1,215 1,224 1,235 1,290	Males, 12,493 12,283 12,524 12,657 12,862 13,091	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th	rs, 1,279 12,122 11,927 12,161 12,473 12,720 12,712	; Total, 1,323 1,261 1,316 1,327 1,393 1,377	13,169 13,445 13,188 13,477 13,800 14,113 14,089
Great Britai Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st	n. (Annual 11,308 11,077 11,309 11,433 11,627 11,801	average : 1,185 1,206 1,215 1,224 1,235 1,290	Males, 12,493 12,283 12,524 12,657 12,862 13,091	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th	rs, 1,279 12,122 11,927 12,161 12,473 12,720 12,712	; Total, 1,323 1,261 1,316 1,327 1,393 1,377	13,169 13,445 13,188 13,477 13,800 14,113 14,089
Great Britai Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st Northern	n. (Irel	Annual 11,308 11,077 11,309 11,433 11,627 11,801 and. (A	average : 1,185 1,206 1,215 1,224 1,235 1,290 nnual au	Males, 12,493 12,283 12,524 12,657 12,862 13,091 perage :	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th Males, 203; Fen	es, 1,279 12,122 11,927 12,161 12,473 12,720 12,712 males, 1	; Total, 1,323 1,261 1,316 1,327 1,393 1,377 ; Total,	13,169 13,445 13,188 13,477 13,800 14,113 14,089 204.)
Great Britai Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st Northern Jan. 12th	n. (Irel	Annual 11,308 11,077 11,309 11,433 11,627 11,801 and. (A 191	average : 1,185 1,206 1,215 1,224 1,235 1,290 nnual au 1	Males, 12,493 12,283 12,524 12,657 12,862 13,091 perage : 192	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th Males, 203; Fen July 19th	es, 1,279 12,122 11,927 12,161 12,473 12,720 12,712 males, 1 195	; Total, 1,323 1,261 1,316 1,327 1,393 1,377 : Total, 1	13,169 13,445 13,188 13,477 13,800 14,113 14,089 204.)
Great Britai Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st Northern Jan. 12th Feb. 16th	n. (Annual 11,308 11,077 11,309 11,433 11,627 11,801 and. (A 191 203	average : 1,185 1,206 1,215 1,224 1,235 1,290 nnual au 1 1	Males, 12,493 12,283 12,524 12,657 12,862 13,091 perage : 192 204	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th Males, 203; Fem July 19th Aug. 16th	es, 1,279 12,122 11,927 12,161 12,473 12,720 12,712 males, 1 195 205	; Total, 1,323 1,261 1,316 1,327 1,393 1,377 : Total, 1 1	13,169 13,445 13,188 13,477 13,800 14,113 14,089 204.) 196 206
Great Britai: Jan. 12th Feb. 16th March 15th April 12th May 17th June 21st Northern Jan. 12th Feb. 16th March 15th	n. (Irel 	Annual 11,308 11,077 11,309 11,433 11,627 11,801 and. (A 191 203 197	average : 1,185 1,206 1,215 1,224 1,235 1,290 nnual an 1 1 1 1	Males, 12,493 12,283 12,524 12,657 12,862 13,091 perage : 192 204 198	11,890; Female July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th Males, 203; Female July 19th Aug. 16th Sept. 13th	es, 1,279 12,122 11,927 12,161 12,473 12,720 12,712 males, 1 195 205 213	; Total, 1,323 1,261 1,316 1,327 1,393 1,377 : Total, 1 1 1 1	13,169 13,445 13,188 13,477 13,800 14,113 14,089 204.) 196 206 214

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IV.—Mechanical Power.

PARTICULARS OF PRIME MOVERS, ELECTRIC GENERATORS, AND ELECTRIC MOTORS.

(a) Ordinarily in use.(b) In reserve or idle.	England and Wales.	Scotland.	Great Britain.	Northern Ireland.
PRIME MOVERS :Reciprocating steam engines $\dots \begin{cases} (a) \\ (b) \end{cases}$ Gas engines $\dots \dots \begin{cases} (a) \\ (b) \end{cases}$ Petrol and light oil engines $\dots \dots a$ Heavy oil engines $\dots \dots a$ Water power $\dots \dots a$	$\begin{array}{c} \text{H.P.}\\ 13,930\\ 271\\ 4,913\\ 465\\ 73\\ 147\\ 68\end{array}$	H.P. 2,220 543 1,079 13 — —	H.P. 16,150 814 5,992 478 73 147 68	H.P. 271 57 90 20 60
Total $\cdots \cdots \begin{pmatrix} a \\ b \end{pmatrix}$	19,131 736	3,299 556	22,430 <i>1,292</i>	408 <i>90</i>
Total of prime movers installed	19,867	3,855	23,722	498
ELECTRIC GENERATORS :— Driven by— Reciprocating steam engines $\begin{cases} (a) \\ (b) \\ Gas engines \dots \dots (a) \end{cases}$	Kw. 365 11	Kw. 566 436 105	Kw. 931 436 116	Kw. 150
Total $\cdots \cdots \begin{pmatrix} a \\ b \end{pmatrix}$	376	671 <i>436</i>	1,047 <i>436</i>	
TOTAL OF ELECTRIC GENE- RATORS INSTALLED	376	1,107	1,483	150
ELECTRIC MOTORS :	H.P.	H.P.	H.P.	H.P.
Driven by— Electricity generated in own $\begin{cases} a \\ b \\ c \\ c$	467 	841 <i>103</i> 1,320 <i>242</i>	1,308 <i>103</i> 13,762 <i>2,039</i>	250 61

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