

### THE LINOLEUM AND OILCLOTH 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 linoleum, oilcloth, artificial leather and the like. The following table shows the main results of the Censuses of 1930 and 1924. The particulars for both years are believed to cover all important firms engaged in the manufacture of these goods.

Particulars	Unit	1930	1924
Value of goods made (Gross output) ... ..	£'000	8,964	11,340
Cost of materials used ... ..	"	5,405	6,091
Paid for work given out to other firms ... ..	"	3	*
Net output ... ..	"	3,556	5,249
Average number of persons employed ... ..	No.	12,853	12,355
Net output per person employed ... ..	£	277	425
Power available:—			
Prime movers ... ..	H.P.	42,479	37,466
Electric motors driven by purchased electricity ... ..	"	12,390	5,760
Number of returns ... ..	No.	32	29
Number of establishments ... ..	"	46	†

\* Not ascertained.

† Not available.

One firm to which a schedule was sent at the 1930 Census and two at that of 1924 furnished no information; these firms had small businesses and their omission has no appreciable effect on the results.

**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- 49 ...	8	233	95	273	350
50- 99 ...	6	332	104	447	234
100-199 ...	7	770	239	992	241
200-399 ...	4	880	348	1,058	329
500-999 ...	3	1,639	735	2,082	353
1,000 and over ...	4	5,110	2,035	8,001	254
TOTAL ...	32	8,964	3,556	12,853	277

**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.	£
1 ... { 1930	9	1,796	801	2,597	313
... { 1924	7	2,222	1,080	2,778	389
2 ... { 1930	9	3,486	1,275	5,255	243
... { 1924	9	4,605	1,841	5,127	359
10 ... { 1930	8	3,337	1,362	4,521	301
... { 1924	8	4,149	2,161	4,053	533
Other areas ... { 1930	6	345	118	480	246
... { 1924	5	364	167	397	421
TOTAL { 1930	32	8,964	3,556	12,853	277
... { 1924	29	11,340	5,249	12,355	425

**Northern Ireland.**—No production of linoleum, oilcloth, etc., was recorded in Northern Ireland for 1930 or 1924.

### Production

**Principal products.**—The following table shows the quantity and value of linoleum, oilcloth, etc., made in 1930 and 1924 :—

Kind of goods	1930						1924	
	Returned on schedules for						Total	
	The Linoleum and Oilcloth Trade			All trades				
	Quantity	Value	Entries	Quantity	Value	Entries	Quantity	Value
Th. sq. yds.	£'000	No.	Th. sq. yds.	£'000	No.	Th. sq. yds.	£'000	
Linoleum :—								
Inlaid ...	13,981	2,117	7	13,981	2,117	7	10,518	2,191
(Tons) ...	(29,876)			(29,876)			(27,940)	
Other ...	33,340	3,070	15	33,340	3,070	15	46,022	5,067
(Tons) ...	(56,143)			(56,143)			(76,860)	
Cork carpet ...	664	127	7	664	127	7	704	150
(Tons) ...	(2,041)			(2,041)			(1,970)	
Oilcloth ...	22,795	1,213	12	22,823	1,214	13	52,840*	3,907*
Artificial leather and the like ...	29,187	2,129	10	29,325	2,141	12		
Felt base floor covering† ...	7,451	298	7	8,724	349	8		
TOTAL—PRINCIPAL PRODUCTS	...	8,954	...	...	9,018	...	...	11,315

\* Oilcloth for upholstery and all other purposes.

† So far as separately recorded.

\* For particulars see page xviii.

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

Kind of goods	Average value		1930 as a percentage of 1924
	1930	1924	
	£	£	Per cent.
Linoleum :—			
Inlaid ... { per thous. sq. yds.	151.4	208.4	72.6
... { per ton ...	70.9	78.4	90.4
Other ... { per thous. sq. yds.	92.1	110.1	83.7
... { per ton ...	54.7	65.9	83.0
Cork carpet ... { per thous. sq. yds.	191.6	212.6	90.1
... { per ton ...	62.3	76.0	82.0
Oilcloth ... per thous. sq. yds.	53.2		
Artificial leather and the like... „ „	73.0	60.8	73.9*
Felt base floor covering ... „ „	40.0		

\* Oilcloth for upholstery and all other purposes.

**Volume of production in 1930 and 1924.**—The following table compares the volume of production of linoleum, oilcloth, etc., in 1930 and 1924, the revaluation of the output figures for 1924 being based on the average values per 1,000 square yards.

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	
Linoleum :—				
Inlaid ...	2,117	2,191	1,591	133
Other ...	3,070	5,067	4,241	72
Cork carpet ...	127	150	135	94
Oilcloth ...	1,214	3,704	3,907*	115
Artificial leather and the like... 2,141	349			
Felt base floor covering ...	349			
TOTAL ...	9,018	11,315	9,182	98

\* Oilcloth for upholstery and all other purposes.

On the basis of superficial measurement, the volume of production in 1930 was less by about 2 per cent. than in 1924. If, for linoleum and cork carpet, the weight of the goods is taken as the basis of revaluation, the total for 1924 would be increased to £9,525,000, the decline in 1930 in this case being about 5 per cent.

**Production, exports and imports.**—The following table shows, in relation to production, the quantities of the principal classes of linoleum, oilcloth, etc., exported from the United Kingdom in 1930 and 1924, together with the quantities imported and retained.

Kind of goods	Production	Exports	Proportion of production exported	Retained imports	Available for use in the United Kingdom	Share of home market held by British products	
							Per cent.
Linoleum :—							
Inlaid	1930 Th. sq. yds.	13,981	3,106	22.2	265	11,140	97.6
	1930 Tons	29,876	6,616	22.1	615	23,875	97.4
	1924 Th. sq. yds.	10,518	3,595	34.2	15	6,938	99.8
	1924 Tons	27,940	8,275	29.6	50	19,715	99.7
Other	1930 Th. sq. yds.	33,340	9,837	29.5	1,664	25,167	93.4
	1930 Tons	56,143	16,221	28.9	3,289	43,211	92.4
	1924 Th. sq. yds.	46,022	18,169	39.5	1,450	29,303	95.1
	1924 Tons	76,860	28,679	37.3	2,245	50,426	95.5
Cork carpet	1930 Th. sq. yds.	664	97	14.6	*	567	100.0
	1930 Tons	2,041	221	10.8	*	1,820	100.0
	1924 Th. sq. yds.	704	256	36.4	15	463	96.8
	1924 Tons	1,970	455	23.1	21	1,536	98.6
Oilcloth	1930 Th. sq. yds.	60,872†	12,143	19.9	6,295	55,024	88.6
	1924 Th. sq. yds.	52,840	15,862	30.0	1,132	38,110	97.0

\* Re-exports in excess of imports.

† Including artificial leather and felt base floor covering.

**Other products.**—In addition to the output shown in the table of principal products on page 292, other goods valued at £10,000 in 1930 and £25,000 in 1924 were produced by firms that made their returns on schedules for the Linoleum and Oilcloth Trade. These goods are dealt with in the reports on those trades in which the principal output was recorded.

### 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)	855	10,755	97	889	952	11,644
Administrative, technical and clerical staff (as at 18th October) ... ..	67	985	14	224	81	1,209
<b>TOTAL</b> ... ..	<b>922</b>	<b>11,740</b>	<b>111</b>	<b>1,113</b>	<b>1,033</b>	<b>12,853</b>
1924						
Operatives (average for the year)	1,300	10,119	230	1,215	1,530	11,334
Administrative, technical and clerical staff (as at 18th October) ... ..	73	844	13	177	86	1,021
<b>TOTAL</b> ... ..	<b>1,373</b>	<b>10,963</b>	<b>243</b>	<b>1,392</b>	<b>1,616</b>	<b>12,355</b>

**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 equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
PRIME MOVERS						
Reciprocating steam engines ... ..	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines ... ..	17,001	4,301	21,302	21,805	4,939	26,744
Steam turbines ... ..	14,840	4,900	19,740	8,934	—	8,934
Internal combustion engines :—						
Gas ... ..	45	73	118	130	28	158
Petrol, kerosene, or other light oils ...	—	22	22	22	—	22
Heavy oils ... ..	107	1,000	1,107	160	1,250	1,410
Water engines ... ..	190	—	190	178	20	198
<b>TOTAL</b> ... ..	<b>32,183</b>	<b>10,296</b>	<b>42,479</b>	<b>31,229</b>	<b>6,237</b>	<b>37,466</b>

Power equipment	1930			1924		
	Ordinarily in use	In reserve or idle	Total	Ordinarily in use	In reserve or idle	Total
<b>ELECTRIC GENERATORS</b>	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by						
Reciprocating steam engines ... ..	2,072	1,223	3,295	2,599	1,158	3,757
Steam turbines ... ..	11,125	3,675	14,800	5,752	—	5,752
Internal combustion engines :—						
Gas ... ..	29	29	58	—	—	—
Petrol, kerosene, or other light oils ... ..	—	19	19	19	—	19
Heavy oils ... ..	33	680	713	—	820	820
Water engines ... ..	10	16	26	10	21	31
<b>TOTAL ... ..</b>	<b>13,269</b>	<b>5,642</b>	<b>18,911</b>	<b>8,380</b>	<b>1,999</b>	<b>10,379</b>
<b>ELECTRIC MOTORS</b>	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Driven by						
Electricity generated in same works ... ..	25,531	2,428	27,959	14,039	1,253	15,292
Purchased electricity	12,057	333	12,390	5,326	434	5,760
<b>TOTAL ... ..</b>	<b>37,588</b>	<b>2,761</b>	<b>40,349</b>	<b>19,365</b>	<b>1,687</b>	<b>21,052</b>

### 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 ... ..	80,759	131,402*	2,000
Coke ... ..	—	735*	—
			B.T.U. (Kw.-hrs.) '000
Electricity used for all purposes :—			
Generated in same works ... ..			23,602
Purchased ... ..			8,103
<b>TOTAL—Electricity ... ..</b>			<b>31,705</b>

\* These figures were recorded by firms representing 76.6 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 (Gross output) ...	£'000	5,627	3,337	8,964
Cost of materials used ... ..	"	3,430	1,975	5,405
Paid for work given out to other firms...	"	3	—	3
Net output ... ..	"	2,194	1,362	3,556
Average number of persons employed...	No.	8,332	4,521	12,853
Net output per person employed ...	£	263	301	277
Power available :—				
Prime movers ... ..	H.P.	25,141	17,338	42,479
Electric motors driven by purchased electricity ... ..	"	7,736	4,654	12,390

### II. Production

Kind of goods made	Unit	England and Wales	Scotland	Great Britain
<b>Linoleum :—</b>				
Inlaid ... ..	<i>Th. sq. yds.</i>	*	*	13,981
	<i>Tons</i>	*	*	29,876
	£'000	*	*	2,117
Other ... ..	<i>Th. sq. yds.</i>	16,172	17,168	33,340
	<i>Tons</i>	22,200	33,943	56,143
	£'000	1,190	1,880	3,070
Cork carpet ... ..	<i>Th. sq. yds.</i>	*	*	664
	<i>Tons</i>	*	*	2,041
	£'000	*	*	127
Oilcloth ... ..	<i>Th. sq. yds.</i>	17,685	5,110	22,795
	£'000	880	333	1,213
Artificial leather and the like ... ..	<i>Th. sq. yds.</i>	29,187	—	29,187
	£'000	2,129	—	2,129
Felt base floor covering ... ..	<i>Th. sq. yds.</i>	*	*	7,451
	£'000	*	*	298
Other goods ... ..	£'000	10	—	10
<b>TOTAL VALUE OF GOODS MADE (GROSS OUTPUT) ... ..</b>	£'000	<b>5,627</b>	<b>3,337</b>	<b>8,964</b>

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

## 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 ... ..	600	7,047	25	343	625	7,390
Administrative, etc.* ...	50	627	8	121	58	748
TOTAL ... ..	650	7,674	33	464	683	8,138
<i>Scotland :—</i>						
Operatives ... ..	241	3,530	70	531	311	4,061
Administrative, etc.* ...	17	358	6	103	23	461
TOTAL ... ..	258	3,888	76	634	334	4,522
<i>Great Britain :—</i>						
Operatives ... ..	841	10,577	95	874	936	11,451
Administrative, etc.* ...	67	985	14	224	81	1,209
Total ... ..	908	11,562	109	1,098	1,017	12,660

\* 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 ...	7,661	3,937	11,598	July 19 ...	7,814	4,166	11,980
Feb. 15 ...	7,594	3,908	11,502	Aug. 16 ...	7,534	4,127	11,661
Mar. 15 ...	7,537	3,888	11,425	Sept. 13 ...	7,237	4,138	11,375
April 12 ...	7,770	4,235	12,005	Oct. 18 ...	7,390	4,061	11,451
May 17 ...	7,837	4,241	12,078	Nov. 15 ...	7,452	3,949	11,401
June 21 ...	7,743	4,233	11,976	Dec. 13 ...	7,434	3,837	11,271
AVERAGE FOR THE TWELVE MONTHS ... ..					7,584	4,060	11,644

## 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
<b>PRIME MOVERS</b>						
Reciprocating steam engines ... ..	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Steam turbines ... ..	11,763	3,371	5,238	930	17,001	4,301
Internal combustion engines :—						
Gas ... ..	45	73	—	—	45	73
Petrol, kerosene, or other light oils ...	—	22	—	—	—	22
Heavy oils ... ..	107	1,000	—	—	107	1,000
Water engines ... ..	190	—	—	—	190	—
TOTAL ... ..	20,575	4,566	11,608	5,730	32,183	10,296
TOTAL OF PRIME MOVERS INSTALLED	25,141		17,338		42,479	
<b>ELECTRIC GENERATORS</b>						
Driven by	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines ... ..	517	723	1,555	500	2,072	1,223
Steam turbines ... ..	6,275	75	4,850	3,600	11,125	3,675
Internal combustion engines :—						
Gas ... ..	29	29	—	—	29	29
Petrol, kerosene, or other light oils ... ..	—	19	—	—	—	19
Heavy oils ... ..	33	680	—	—	33	680
Water engines ... ..	10	16	—	—	10	16
TOTAL ... ..	6,864	1,542	6,405	4,100	13,269	5,642
TOTAL OF ELECTRIC GENERATORS INSTALLED	8,406		10,505		18,911	
<b>ELECTRIC MOTORS</b>						
Driven by	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Electricity generated in same works ...	11,998	819	13,533	1,609	25,531	2,428
Purchased electricity	7,566	170	4,491	163	12,057	333
TOTAL ... ..	19,564	989	18,024	1,772	37,588	2,761
TOTAL OF ELECTRIC MOTORS INSTALLED	20,553		19,796		40,349	

## V. Consumption of fuel

Kind of fuel used	England and Wales	Scotland	Great Britain
Coal used for power* ... ..	Tons 55,550	Tons 25,209	Tons 80,759
Electricity used for all purposes :—	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000	B.T.U. (Kw.-hrs.) '000
Generated in same works ... ..	8,778	14,824	23,602
Purchased ... ..	5,162	2,941	8,103
TOTAL—Electricity ... ..	13,940	17,765	31,705

\* In addition, 2,000 tons of coal (all in England and Wales) were recorded as used for power and for other purposes, not separately distinguished.