THE ELASTIC WEBBING TRADE.

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THE ELASTIC WEBBING TRADE.

Introductory.*

The Tables on pages 251 to 252 are based on Returns received from firms in England and Wales whose business in 1924 consisted wholly or mainly in the manufacture and making-up of elastic webbing. The number of such separate Returns was 41. In the case of four firms to which schedules were sent, no Returns were furnished, but it is estimated that these firms employed only about 20 people and that their net output did not exceed £2,000.

The following table shows the main results of the Censuses of 1924, 1912 and 1907. The figures for the three years are believed to be fully representative and cover substantially the same ground, the trade being confined to England and Wales in all three years, and the number of persons employed by firms exempted in 1912 on the ground of the small number of employees, being only 26. In considering this and the other tables in the Report it should be borne in mind that 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.

Particulars.	Unit.	1924.	1912.	1907.
Value of goods made and work done (Gross output)	£'000 "" No. £ H.P.	1,926 1,017 50 859 5,535 155 1,128 1,762	1,127 656 23 448 6,220 72 1,819 576	821 522 16 283 4,170 68 1,501 (not recorded)

Value of output and cost of materials.—The figures in the above table, representing the value of goods made and work done, are the aggregates of the figures recorded by the firms making Returns, and they involve duplication (i.e. double or multiple records of the same articles or processes by different firms concerned in different stages of manufacture) inasmuch as goods made by some of the firms form the materials of other firms in the trade, and are included in the value of the output recorded by both. When this duplication (the amount of which is discussed on page 246) is eliminated, the value of the output in 1924 of the Elastic Webbing Trade as a whole is found to be between £1,886,000 and £1,926,000. Similarly, when the figure representing the cost of materials used in 1924 is adjusted by excluding purchases of the products of other firms in the Elastic Webbing Trade, the cost of the materials purchased from outside that trade and worked up into its products is found to be between £977,000 and £1,017,000.

Production.

Elastic goods.—The following statement shows the recorded output in 1924 of the principal products of the Elastic Webbing Trade, whether returned on schedules for that trade or on schedules for other trades, with corresponding aggregates for the years 1912 and 1907, so far as available.

Goods sold or added to stock.	1924.	1912.	1907.	
and not encord £2.000.	Quantity.	Value.	Value*	Value*
Elastic cords and braids	Th. linear yds. 152,452†	£'000. 494†	£'000.	£'000.
Up to 2 inches Above 2 inches	49,986 4,453	672 247	787	663
Manufactures of elastic webs (excluding suspenders, braces, belts, etc.)	ni kombinana Mis 10 todan	250	86	138
TOTAL VALUE	her tables i	1,663	873	801

* Quantity not recorded.

† Includes £4,000 (1,285,000 linear yards) returned on schedules for the Billiard Table and Sports Requisites Trades, the Report on which forms part of a separate volume.

Other products.—In addition to the elastic goods shown above, firms making Returns on schedules for the Elastic Webbing Trade reported that they made other goods to the value of £290,000, as detailed in Table II, p. 251. These goods, being of kinds mainly produced by other trades, are dealt with in the Reports on those trades.

Value of output free from duplication.—The gross output value of the trade (£1,926,000) involves duplication in so far as the manufactures of elastic webbing comprised therein were made from webbing included as such. The value of the goods made from elastic webbing which were manufactured by firms who did not themselves make webbing aggregated £105,000, and the cost of some or all of the webbing used in producing these manufactures may represent duplication. The cost of this webbing may be estimated at £40,000; and the total value of the output of the trade in 1924, free from duplication*, was thus between £1,886,000 and £1,926,000. The corresponding estimate for 1907 was between £751,000 and £821,000.

Cost of materials and work given out.—The cost of materials used by firms making their Returns on schedules for the Elastic Webbing Trade was returned as £1,017,000 in 1924, a sum which involves a possible duplication of £40,000. The net cost of materials therefore lay between £977,000 and £1,017,000; the corresponding net figure for 1907 lay between £452,000 and £522,000.

The amount paid to other firms for work given out to them was returned as £50,000 in 1924, £23,000 in 1912 and £16,000 in 1907.

Net output.—The net output in 1924 of the firms making their Returns on schedules for the Elastic Webbing Trade (whose gross output was valued at £1,926,000) was £859,000, that sum representing, without duplication, the total amount by which the value (at factory) of the aggregate output exceeded the cost (at factory) 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 £155, as compared with £72 in 1912, and £68 in 1907.

Kind of materials used.—Voluntary information as to the quantities of the principal kinds of materials used in 1924 was furnished by all but a few of the firms in the Elastic Webbing Trade. The particulars are as follows:—

Kind of materials.	lb.
Cotton yarns	2,623,700
Rubber	539,600
Silk	23,400
Artificial silk	359,700
Woollen and worsted yarns	12,900

The total output of the firms furnishing the above particulars was valued at £1,762,000 or $91 \cdot 5$ per cent. of the total output of the trade, and consisted of the following:—

Products.	Output of firms furnishing particulars of materials used.	Proportion of total output of trade.
Elastic cords and braids	Th. linear yds. 133,259	Per cent. 88·2
Elastic webs :— Up to 2 inches	46,265 4,178 £275,000 £197,000	97·4 93·8 84·6 91·6

Information corresponding to the above was not obtained for the years 1912 and 1907.

Exports and imports.—No comparison can be made between the production and the exports and imports of manufactures of elastic webs, owing to the absence of separate particulars of exports and imports of the miscellaneous goods covered by this description.

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

^{*} The amount recorded as received for work done for the trade in 1924 was so small that any duplication arising from the inclusion of the value of such work in the value of the goods made by the firms that paid £50,000 for work given out, is negligible.

of firms in the Elastic Webbing Trade which 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, 3,634 operatives or 69 per cent. of the total of 5,251 operatives for the trade as a whole, and their net output totalled £598,000 or 70 per cent. of the aggregate net output of £859,000 for the trade as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £323,000, representing about 54 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on pages 251–2. The following table sets out certain particulars for that year, together with those relating to the two previous censal years. 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 proportion shown by the data relating to the week ended 18th October.

new hall wined availa		M	Males.		nales.	Males and females	
Average number.		Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
1924. Operatives Administrative, etc	23 D - 1 of	291 13	1,592 298	943 14	3,499 146	1,234 27	5,091 444
TOTAL		304	1,890	957	3,645	1,261	5,535
1912. Wage earners		261 20	1,668	1,399	4,259 54	1,660 28	5,927 293
TOTAL		281	1,907	1,407	4,313	1,688	6,220
1907. Wage earners Salaried		227 16	1,351 212	789 3	2,572 35	1,016	3,923 247
TOTAL		243	1,563	792	2,607	1,035	4,170

The numbers of operatives recorded month by month in 1924 ranged from 167 above the average, in September, to 336 below the average, in January (see Table IIIB, page 252).

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV, page 252. The following table sets out the particulars for the three censal years relating to the capacity and kinds of *prime movers*, and the capacity of *electric generators* installed.

for transfers 9700s 980		1924.	1912.	1907.	
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.	Total.
PRIME MOVERS:— Reciprocating steam engines Gas engines	H.P. 490 412	H.P. 174 52	H.P. 664 464	H.P. 967 821	H.P. 1,298
Petrol and light oil engines Heavy oil engines Water power	三		- <u></u>	31	51
TOTAL	902	226	1,128	1,819	1,501
ELECTRIC GENERATORS:—	Kw.	Kw.	Kw.	Kw.	Kw.
Driven by— Reciprocating steam engines Gas engines Water power	122 78 —	50 13 —	172 91 —	248 } 131	228
TOTAL	200	63	263	379	228

The capacity of electric motors installed in 1924 and in 1912 was as shown below:—

		1912.		
Electric motors.	Ordinarily in use.	In reserve or idle.	Total.	Total.
The second secon	H.P.	H.P.	H.P.	H.P.
Driven by— Electricity generated in own works Purchased electricity	142 1,311	93 451	235 1,762	207 576

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 74,000.

Machinery Equipment.

In response to a request for voluntary information as to the kinds and numbers of machines at factories, particulars were furnished by firms that produced the following output:—

	Output of firms furnishing particulars of machinery.				
Products.				Quantity.	Proportion of total output of the trade.
Elastic cords and braids				Th. linear yds. 133,259	Per cent. 88·2
Elastic webs:— Up to 2 inches Above 2 inches		::	.:	46,316 4,178	97·5 93·8
Non-elastic tapes and braids (of m wool)	••	l other	than	10,490 £275,000	97·9 84·6
Other products				£173,000	92.5

the total value of the output of these firms being £1,765,000 or

The kinds and numbers of machines at the works of these firms at

In use.

Number.

9,906

4,189

33,309

17,988

Idle.

Number.

2,839

2,175

16,700

8,910

12

Number.

12,745

6,364

50,009

26,898

Percentage idle.

Per cent.

22.3

34.2

33.1

18.2

29.8

91.6 per cent. of that of the gross output of the trade.

the end of 1924 were as follows:-

Kind of machines.

Shuttles making webs of over 2 inches

Shuttles making webs of 2 inches and

Power

Winding machines :-

The value of the products shown in the above statement was £1,396,000, and other goods valued at £369,000 were also returned,

TABLES.

Note.—No production was recorded in Scotland or Northern Ireland.

I.—Summary of Results.

Particulars.	Unit.	England and Wales.
Value of goods made and work done (Gross output)	£'000	1,926 1,017 50
Paid for work given out to other firms	,, No. £	859 5,535 155
Mechanical power available:— Prime movers	H.P.	1,128 1,762

II.—Production.

	England and Wales.			
Goods sold or added to stock.	Quantity.	Selling value.		
Elastic cords and braids	Th. linear yds. 151,167	£'000. 490		
Elastic webs:— Up to 2 inches	47,513 4,453	649 247		
Manufactures of elastic webs: Suspenders, braces, belts, etc. Other manufactures	INVOLUNE DE	75 250		
Non-elastic webbing:— Ouantity stated	6,477	40 31		
Quantity not stated	10,721	28		
Woollen braids and smallwares Cordage and twine (under 1 inch diameter) Other textile manufactures and work done	7,266	16 11 89		
Total value of goods made and work done Done (Gross output)		1,926		

III.—Employment.

A.—Numbers employed in week ended 18th October, 1924.

	Males.		Fem	iales.	Males and females.	
Kind of staff.	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
England and Wales:— Operatives	298	1,629	976	3,622	1,274	5,251
Administrative, technical and clerical staff	13	298	14	146	27	444
TOTAL	311	1,927	990	3,768	1,301	5,695

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

England and Wales. (Annual average: Males, 1,592; Females, 3,499; Total, 5,091).

Week ended M		Males.	Females.	es. Total.	Week ended	Males.	Females.	Total.
Jan. 12th Feb. 16th Mar. 15th April 12th May 17th June 21st		1,520 1,549 1,554 1,577 1,602 1,603	3,235 3,281 3,384 3,468 3,572 3,547	4,755 4,830 4,938 5,045 5,174 5,150	July 19th , Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th	1,612 1,605 1,629 1,629 1,627 1,603	3,605 3,594 3,629 3,622 3,540 3,503	5,217 5,199 5,258 5,251 5,167 5,106

IV.—Mechanical Power.

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

Power equipment.	England and Wales.		
Tower equipment.	Ordinarily in use.	In reserve or idle.	
PRIME MOVERS:— Reciprocating steam engines	H.P. 490 412	H.P. 174 52	
TOTAL	902	226	
Total of prime movers installed	1,128		
ELECTRIC GENERATORS:— Driven by—	Kw.	Kw.	
Reciprocating steam engines	122 78	50 13	
TOTAL	200	63	
Total of electric generators installed	263		
ELECTRIC MOTORS:— Driven by—	H.P.	H.P.	
Electricity generated in own works Purchased electricity	142 1,311	93 451	