THE LEATHER TRADE.

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Introductory.*

The tables on pages 211 to 218 are based on returns received from firms in Great Britain and Northern Ireland whose business in 1924 consisted wholly or mainly in the tanning and dressing of leather and in the manufacture of machinery belting. The number of such separate returns was 737. 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 250 persons in all and that their total net output probably did not exceed £70,000.

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:—

Particulars.	Unit.	1924.	1912.	1907.
Value of products and work done			Janes III and and	
(Gross output)	£'000	33,099	21,707	18,289
Cost of materials used	,,	24,209	17,548	14,843
Paid for work given out to other				
firms	,,	160	106	61
Net output	,,	8.730	4.053	3,385
Average number of persons em-			- SECREDARY	
ployed	No.	31,696	30,082	28,910
Net output per person employed	£	275	135	117
Mechanical power available :—	~	quo Mins		
Prime movers	H.P.	35,816	23,788	22,609
Electric motors driven by pur-		00,010	20,700	
chased electricity	.,	33,716	3,599	(not
	,,	,,,,	2,000	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, in 1907, only 239 persons, with a gross output of £87,000, were returned for the whole of Ireland as engaged in the Leather Trade.

(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 974, or $3 \cdot 3$ per cent. of the number employed by the remaining firms, as shown in the above table.

(4) Certain tanning firms that maintained fellmongery departments furnished separate returns in respect of those departments (see report on the Fellmongery Trade, pages 186 to 194) in the Census of 1924, whereas the majority of firms of this kind made, in 1907 and 1912, composite returns on schedules for the Leather Trade. The effect of this difference in method on the comparability of the figures for the three years is probably small.

Value of output and cost of materials.—The figures in the above table representing the value of goods made and work done and the cost of materials used, are the aggregates of the figures recorded by the firms that made returns, and, for the reasons explained in paragraphs (i) and (ii) on page xiii, they probably overstate the value of the output of, and the cost of materials used by, the Leather Trade considered as a whole. The matter is discussed on page 205, where it is estimated that the value, free from duplication, of the output of the Leather Trade in 1924 was about £30,000,000, and the cost of the materials purchased from sources outside the trade and worked up into its products was about £21,100,000.

Divisions of the industry.—The following statement furnishes certain data for 1924 in respect of the main divisions of the trade:—

TROPICS CHART THE L			Firms 1	mainly engag	ed in—	
Particulars.	Unit.	Tanning only.	Tanning and dressing.	Dressing only.	Belting manu- facture.	Other work.
Value of products and work done (Gross out-	June 1	9 28	01 0100	gogen.	eldar e	to and
put)	£'000	13,311	11,546	5,784	1,193	1,265
Cost of materials used	~ ,,	10,465	8,074	4,131	749	790
Paid for work given out						
to other firms	,,	5	61	94	_	
Net output	,,	2,841	3,411	1,559	444	475
Average number of per-			1017 610		an is son	
sons employed	No.	8,881	13,191	5,862	1,565	2,197
Net output per person			13 3 1 1 1 1 1 2 1 2 1			
employed	£	320	259	266	283	216
Mechanical power avail-						
able:—						
Prime movers	H.P.	11,935	15,396	6,323	711	1,45
Electric motors driven	a halina	to do	tun veril		eaban 1	
by purchased elec-					4 400	0.01
tricity	,,	12,878	12,441	4,887	1,498	2,01

^{*} See also the Notes on pages vii to xv.

Production.

Total make of undressed leather.

Tanners, including firms that carried on also the dressing of leather, were required to state the total quantity of undressed leather made by them in 1924, whether subsequently sold in that state or dressed in their own works. Wherever possible, the quantity was to be stated in tons, but a statement of output in square feet was accepted in the case of those kinds where quantities were usually calculated by that measure; some firms returned their output by dozens of hides or skins only. The following table summarises the information furnished, distinguishing the output returned by firms engaged in tanning only.

Kind of undressed leather.		turned by fir tanning only		I	Returned by a firms.	ıll
	Tons.	Th. sq. ft.	Dozens.	Tons.	Th. sq. ft.	Dozens.
Hides for sole leather Other hides:— Ox and cow (except	71,675	-		77,795		
kips) Kips	12,006 29		- ₁₁	17,666 985	1,202 6,426	290 32
Calf	116 903	184	1,659	605 2,788	4,431 725	81 1,660
guished	_		-	2,188	25,828	_
Total—Hide leather	84,729	184	1,670	102,027	38,612	2,063
Skins:— Goat Sheep, whole or split Other sorts	 524 89		1,953 55,081 7,800	124 954 404	7,880 24,483 1,126	29,887 644,174 39,113
Not separately distinguished	—	_		349	22,156	17,508
Total—Skin leather	613	-	64,834	1,831	55,645	730,682
Total — Hide and skin leather	85,342	184	66,504	103,858	94,257	732,745

Firms that tanned leather but did not dress it were, it appears from the table, responsible for 82 per cent. of the weight of all leather returned in terms of weight, but for only a small proportion (about 9 per cent.) of the hides and skins returned in dozens, and for a negligible proportion of the leather returned in terms of square feet.

The total value of the output of undressed leather by firms that were tanners only was £12,763,000, of which £12,628,000, or nearly 99 per cent., represented leather returned by weight and £128,000 represented leather returned by dozens of skins.

In the case of firms that dressed leather as well as tanned it, the following summary statement shows the proportion of their total make of undressed leather which was sold as such, or added to stock.

Class of undressed lea	doue as	Unit of	Total make.	Made for	r sale.
Class of undressed lea	itner.	quantity returned.	Quantity.	Quantity.	Value.
Hides:—			an annique comment	atine of Ingelection	€,'000
For sole leather Other sorts returned b	v—	Tons	6,120	6,120	969
Weight		Tons	11,178	3,057	457
Area	***** *** · ·	Th. sq. ft.	38,428	3	*.
Number	1960 DAT .	Dozens	393	72	2
Skins:— Returned by—					
Weight		Tons	1,218	420	90
Area		Th. sq. ft.	55,645	5,614	104
Number	W. Santa	Dozens	665,848	317,755	635
TOTAL VALUE					2,257

* Less than £500.

It would appear that the great bulk of the hides (other than those for sole leather) and more than half the skins tanned by these firms were used by them for further treatment or manufacture in their own works. The value of the undressed leather made for sale by these firms was £2,257,000.

Total make of dressed leather.

Firms in the leather trade were also required to state the total quantity of dressed leather made by them, whether subsequently sold as such or used in their own works in making more finished goods. The following table shows the total make of dressed leather so returned, distinguishing the output of firms that tanned leather in addition to dressing it.

Kind of dressed leather.		ed by firms t		Returned by all firms.				
	Tons.	Th. sq. ft.	Dozens.	Tons.	Th. sq. ft.	Dozens.		
Upper leather, other than patent, varnished, japanned or enamelled:— Box and willow calf	501	15,500	111	1,760	18,868	111		
Glacé kid	_	13,399	49,518	62	20,376	49,518		
Other sorts Other than upper leather:	4,205	29,731	45,927	6,861	47,826	99,427		
Hide, calf and kip	2,280	4,353	479	4,509	9,707	674		
Sheep, goat and kid	236	37.056	348,253	1,292	50,035	436,990		
Patent, varnished, ja-		and storme				200,000		
panned and enamelled	392	1,682	430	967	2,080	430		
Other sorts	2,135	4,059	65,185	4,257	11,428	104,147		
TOTAL	9,749	105,780	509,903	19,708	160,320	691,297		

It will be seen that the major part of the output of dressed leather was made by firms that tanned leather in addition to dressing it.

As will be seen from the following summary table, the great bulk of the dressed leather made was sold as such and the quantities available for further manufacture by the dressing firms were small:—

Dressed leather returned by—				Total make.	Made for sa	le or stock.	
Diessed Rath		ned by			Quantity.	Quantity.	Value.
Tons Thousand square feet Dozens	24 V		1 270		19,708 160,320 691,297	18,615 159,913 665,955	£'000. 5,324 5,986 1,594
TOTAL V	ALUE		100			(12,904

Output for sale or stock.

Detailed information as to the output of the Leather Trade in 1924 will be found in Table II on pages 212 to 216.

Principal products.—The following statement shows, for the years 1924, 1912, and 1907, the value of the principal products of the Leather Trade made for sale, the figures for each year being inclusive of the output of similar products recorded on schedules for other trades.

Kind of products.	1924.	1912.	1907.
	€'000.	£'000.	£'000.
Leather, undressed	15,033	10,902	8,688
Leather, dressed (other than varnished, etc.)	12,166	6,380	6,023
Leather, varnished, japanned and enamelled	899	409	299
Hides and skins, pickled, etc	494	325	230
Hat leather	585	211	89
Parchment and vellum	73	70	46
Machinery belting of leather	1.599	1,312	1,194
Machinery accessories of leather	454	278	114
Machinery accessories of hide	108	171	91
Waste products	287	325	318
Total: Principal Products	31,698	20,383	17,092

The output of firms in other trades included in the figure of £31,698,000 for 1924 was only £274,000, including, in addition to the items shown in the footnote to the following table, *Hides and skins*, pickled, £34,000; Parchment and vellum, £10,000; and Machinery accessories of leather, £3,000.

On account of the variations in the methods of returning the quantities of undressed and dressed leather, viz., by weight, by area and by number, comparisons of the output of those classes at the three Censuses cannot be made with any approach to precision. There was a heavy reduction in the output of machinery belting of leather, from 5,450 tons in 1907 and 5,580 tons in 1912, to 2,730 tons in 1924; this reduction was, doubtless, due to the competition of other forms of belting and of cotton driving ropes and to the extended use of electrically-driven machinery.

More detailed particulars of the main classes of output in 1924 are given in the following table, together with the comparative particulars of exports and retained imports:—

Table (Charles)	Production	on for sale or	r stock.	Expo	rts	Reta	ined
Kind of products.	Quar	ntity.	Factory	Expo	its.	impo	rts.
	Unit.	Amount.	value.	Quantity.	Value f.o.b.	Quantity.	Value c.i.f.
Leather, undressed:— Hides for sole leather Other hides:	Tons	77,795	£'000. 10,969	Tons. 6,020	£'000. 1,095	Tons. 8,549	£'000.
Ox and cow Calf Kips	Tons Tons Tons	14,166 255 200	2,568 96 31	2,582 62 72	423 12 12	10,834 353 717	1,906 88 137
Other sorts	Tons	1,613	244	1,250	248	5,011	328
Total—Hides	Tons	94,029	13,908	9,986	1,790	25,464	3,455
Goat skins {	Tons Th. sq. ft. Th. dozs.	116 6 5	31 * 23	} 84	30	1,607	509
†Sheep and lamb skins, whole or split	Tons Th. sq. ft. Th. dozs. Tons	596 5,305 363 323	181 101 711 44	760	295	2,637	710
Other skins {	Th. sq. ft. Th. dozs.	303 20	31	} 33	12	16	10
TOTAL — LEATHER, UNDRESSED	Tons Th. sq. ft. Th. dozs.	95,064 5,614 388	14,164 104 765	}10,863	2,127	29,724	4,684
Leather, dressed:— Upper leather, other than patent, varnished, japanned or enamelled:	nios (m) - Working - Working	ends ingrave	adas (ashill esbar-is	5-13 345 - 13 3802	o suts -asio d 0,818,3	
Box and willow {	Tons Th. sq. ft. Dozs. Tons	1,760 18,868 111 62	491 966 1 55	} 437	216	2,209	1,849
Glacé kid	Th. sq. ft. Th. dozs. Tons	20,376 48 6,906	806 103 1,485	203	213	1,474	1,816
†Other sorts {	Th. sq. ft. Th. dozs.	47,645 99	1,635 256	3,380	983	2,068	1,086
TOTAL—Upperleather (other than patent, &c.).	Tons Th. sq. ft. Th. dozs.	8,728 86,889 148	2,031 3,407 360	3,020	1,412	5,751	4,751
Hide, calf and kip, other than upper leather	Tons Th. sq. ft. Dozs.	3,969 9,638 674	1,161 527 12	358	178	97	46
†Sheep, goat and kid other than upper leather	Tons Th. sq. ft. Th. dozs.	1,632 49,917 413	634 1,552 879	686	797	549	399

^{* †} For Notes see page 202.

	Product	ion for sale o	or'stock.	aluocri.	T Eell	Reta	ined
Kind of products.	Qua	ntity.	Factory	Expo	rts.	imports.	
	Unit.	Amount.	value.	Quantity.	Value f.o.b.	Quantity.	Value c.i.f.
Leather, dressed—contd. Patent, varnished, japanned and enamelled †Other sorts	Tons Th. sq. ft. Dozs. Tons Th. sq. ft. Th. dozs.	967 2,057 430 3,779 11,412 104	768 110 21 891 390 322	} 303 } 1,124	261 556	1,309	1,403
Total—Leather, dressed	Tons Th. sq. ft. Th. dozs.	19,075 159,913 666	5,485 5,986 1,594	5,491	3,204	8,940	7,080
†Machinery belting of leather	Tons	2,830	1,599	1,033	564	205	90

* Under £500.

† The figures of production include the following amounts returned on schedules for other trades:—

(i) Sheep and lamb skins, whole or split .	5,000	dozen	valued	at £10,000.
	\cdot 2	tons	,,	£1,000.
(ii) Other sorts of upper leather	. 70	tons	,,	£16,000.
(iii) Sheep, goat and kid, other than uppe	r			
leather	. 340	,,	,,	£132,000.
(iv) Other sorts of dressed leather	. 50		,,	£13,000.
(v) Machinery belting of leather	. 100	,,	,,	£55,000.

The net imports of undressed leather include, mainly under the description Ox and cow, the rough tanned East Indian kips which are a material for the tanner rather than a rival for his products. The value of the "Hides, other than for sole leather," consigned from India in 1924 under the descriptions Ox and cow and Kips was f(1,919,000).

Technical classification of output.—In addition to the classification of dressed and undressed leather set out in the above table, which is that adopted for the purpose of recording the import and export statistics and is, consequently, the only classification in which tanners and leather-dressers were under a statutory obligation to state the quantities of their output, the United Tanners' Federation were desirous of obtaining a more technical grouping. Such a grouping was drawn up with their help, and firms were asked to furnish an additional classification of their output in the detail thus determined. The result was not satisfactory, for the new information thus furnished covered only a little more than one-half of the undressed leather, about one-half of the upper leather, and about one-fourth of the other dressed leather produced in 1924. In view of the incompleteness of the particulars, the relative importance of the different uses of leather distinguished in the technical classification cannot be determined from the information furnished. The output of the firms that furnished particulars is set out in the following tables according to both the official and the technical classifications.

A.—Undressed leather.

	eather.			Tons.	Sq. feet.	Dozens.
STREET,	(I) 0.00			250 30010		
TT: 1 4 101 041	(1) Offi	cial cla	essificat			
Hides for sole leather		• •	• •	44,229	_	—
Hides, other than for sole lea	ther:					
Ox and cow (except kips)				9,690	680,788	_
Calf				100	2,827,494	
Kips			0.000	235	960,901	
Other sorts				690	7,500	
Not separately distinguishe	d			278	20,435,572	90000
Skins:—						
Goat					3,905,335	
Sheep, whole or split				_	10,197,269	4,648
Other corte				<u> </u>	10,107,200	1,010
Not separately distinguishe	 d		•••	349	14,104,950	5,356
riot separately distinguished	u			343	14,104,550	3,330
Total				55,571	53,119,809	10,004
(iSole leather :—	i) Tech	nical d	lassific	ation.		
Bends, sides and backs				24,176		
Bellies and shoulders						
	••		• •	20,053		
Belting leather:—				1.510		
Strap butts	••	• •	• •	1,712		_
				380		_
Strap shoulders						
Rough dressing leather:—			2 3 3 3 5			
Rough dressing leather:— Split hides				1,728	_	_
Rough dressing leather:—	•••	••		1,728 753	_	_
Rough dressing leather:— Split hides						_
Rough dressing leather:— Split hides Dressing hides—backs Rough bellies and shoulder	· · · · · · · · · · · · · · · · · · ·		• • • •	753	1.340.454	_ _ _ _
Rough dressing leather:— Split hides Dressing hides—backs Rough bellies and shoulder Rough-tanned calf and kip	s		••	753 1,574 432	1,340,454 51,779,355	
Rough dressing leather:— Split hides Dressing hides—backs Rough bellies and shoulder	· · · · · · · · · · · · · · · · · · ·		• • • •	753 1,574	1,340,454 51,779,355	10,004

B.—Dressed leather.

Kind of dressed leather.	Tons.	Sq. feet.	Dozens.
(i) Official classifica	tion.		
Upper leather, other than patent, varnished, japanned or enamelled: Glacé kid		17,381,768 7,046,635 19,754,388 3,461,627 19,550,238 1,197,050 3,099,517 71,491,223	6,800 5,356
(ii) Technical classific Upper leather:— Glacé kid	ation. — 1,576 652	17,381,768 3,274,417 3,101,415 - 7,813,739 5,538,589	

B.—Dressed leather—continued.

Kind of dressed leather.				Tons.	Sq. feet.	Dozens.	
(ii) Tee	chnical	classi	fication	cont	tinued.		
Dressed hide leather :-							
For motor upholster	v				_	1.154.400	
For motor hoods						73,450	4
For footballs						1,368	
For bags and cases					_	2,034,359	
Dressed calf leather, n	ot elsew	here	specifie	ed	_	481,981	
Dressed sheep, goat an	d lamb	leath	er, not	else-			
where specified :-							
Roller leather					_	379,445	5,356
E.I. sheep					_	3.408,977	
E.I. goat					_	2,069,609	
Skivers					_	14,424,775	4,492
Other sheep leather					-	2,234,963	129
Chamois					_	51,357	2,179
Other dressed leather					694	8,066,611	
TOTAL					2,922	71.491.223	12,156

It will be seen that the firms that furnished these particulars were responsible for nearly 80 per cent, of the undressed hide leather shown in the official classification as "not separately distinguished" and for about 64 per cent, of the skin leather similarly recorded in the returns, and that both tanners and dressers who returned their output in dozens practically abstained from presenting the alternative classification of their output.

Other products.—In addition to the principal products dealt with in the preceding paragraphs, firms that made their returns on schedules for the Leather Trade recorded for each of the censal years the following output. These goods, being of kinds mainly produced in other trades, are dealt with in the reports on those trades:—

		1924.	1912.	1907.
Kind of goods.		Selling value.	Selling value.	Selling value.
		€,000.	₹'000.	£'000.
Wool		560	678	681
	(Tons)	(2,016)	(5,528)	(6,160)
Hair	 	186	62	73
	(Tons)	(18,434)	(10,849)	(12,470)
Leather gloves	 	62	3	118
Other articles of leather	 	105	185	5 110
Belting of cotton and balata	 	232	204	184
Other goods made	 	65	5 204	104
TOTAL VALUE	 	1,210	1,132	1,056

The apparent decline in the output of wool is due to the fact that a larger number of tanners and leather dressers made separate returns in respect of their fellmongery departments on schedules for the Fellmongery Trade* in 1924 than in 1912 or 1907.

Work done for the trade.

The amount recorded on schedules for the Leather Trade as received in respect of work done for the trade was £465,000 in 1924, £248,000 in 1912, and £204,000 in 1907.

Value of output free from duplication.

The gross value of the output of firms whose returns were made on schedules for the Leather Trade in 1924 was £33,099,000, including £32,634,000, the value of goods made and £465,000 received by firms working for the trade. This gross figure contains a considerable amount of duplication. In the case of hides for sole leather, which are mainly sold by tanning establishments direct to boot and shoe manufacturers or repairers, no substantial amount of duplication is believed to be involved. The value of other undressed hides and skins sold or added to stock by tanners in 1924 amounted to £4,053,000 and this leather may have been (a) exported; (b) added to tanners' stocks; (c) sold to curriers and other firms engaged in dressing and dyeing leather whose returns were made on schedules for the Leather Trade; or (d) sold to firms (e.g., manufacturers of trunks, suit cases, gloves, etc.), whose returns were made on schedules for other trades. The value of undressed leather, other than sole leather, exported in 1924 was recorded as £1,032,000 f.o.b., the factory value of which may be taken to have been at least £900,000. Deducting this latter sum from the recorded value of the output of the undressed leather in question, it appears that the value of such undressed leather sold to firms in the Leather Trade or to other firms was about £3,150,000. It is believed that the great bulk of this undressed leather, not exported, was sold to curriers by whom it was dressed for re-sale, or to makers of products such as machinery belting, hat leather, etc., who made returns on schedules for the Leather Trade, and that the amount sold to manufacturers of finished leather goods (trunks, bags, cases, etc.) who carried out the finishing processes themselves was comparatively small. Firms carrying out work for the trade stated that they received £465,000 for their work in 1924 and the total amount recorded as paid by tanners, dressers and other firms that made their returns on schedules for the Leather Trade for work given out by them was £160,000. The difference of £305,000 between these two sums represents the value of dressing, dyeing and other work done for firms whose returns were made on schedules for other trades or for merchants, and this sum constitutes an addition to the output value of the trade. Thus, £160,000 is the upper limit of the duplication in respect of work done for the trade since that sum may not have been paid exclusively to tanners or dressers of leather.

It appears from the above calculations that the total value of the output of the Leather Trade, free from duplication, in the year 1924, was not less than £30,000,000, and may have been somewhat greater.

^{*} See pages 186 to 194.

Cost of materials and work given out.

The cost of materials used by firms that made their returns on schedules for the Leather Trade was returned as £24,209,000 in 1924, a sum which, by the exclusion of purchases of the products of other firms in the trade, may be reduced to £21,100,000; the corresponding net figure for 1907 lay between £12,000,000 and £14,750,000.

The amount paid to other firms for work given out to them was returned as £160,000 in 1924, £106,000 in 1912, and £61,000 in 1907.

Net output.

The net output in 1924 of the firms that made their returns on schedules for the Leather Trade (whose gross output was valued at £33,099,000) was £8,730,000, that sum representing, without duplication, 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 £275, as compared with £135 in 1912, and £117 in 1907.

Exports and imports.

Detailed particulars of exports and retained imports in 1924 have been given in the table on pages 201 and 202. Summary figures of the weight of exports and imports in 1924, 1912 and 1907, are as follows:—

Classes of goods.	Exports.			Retained imports.		
Classes of goods.	1924.	1912.	1907.	1924.	1912.	1907.
Leather, undressed Leather, dressed Leather belting	10·9 5·5 1·0	$ \begin{array}{c} 6 \cdot 1 \\ 5 \cdot 3 \\ 2 \cdot 2 \end{array} $	In thous 11·1 2·2	and tons. $\begin{cases} 29 \cdot 7 \\ 8 \cdot 9 \\ 0 \cdot 2 \end{cases}$	51·5 13·0 0·2	31·9 14·3 0·2
TOTAL	17.4	13.6	13.3	38.8	64 · 7	46.4

Kinds of materials used.

Hides and skins.—In response to a request for information as to the quantities and kinds of hides and skins used in tanning establishments in 1924, particulars were furnished by firms whose output of undressed leather was valued at £7,078,000, or about 47 per cent. of the value of all undressed leather produced for sale in the year. The particulars furnished by these firms are given below:—

Kind of hides. British and Irish.		and Irich		Imp	orted.	
And of fides.	Diffish and Hish.		Wet hides.		Dry hides.	
Cattle hides :—	Thous.	Tons.	Thous.	Tons.	Thous.	Tons.
Ox and cow	1,135	29,820	927	22,810	835	9,000
Calf and kip	451	1,710	141	960	633	2,490
Bull and buffalo	30	1,270	5	210	8	100

Kind of skins.	British and Irish.	Australian.	New Zealand.	Other.	From all sources.
Daniel Communication of the Co	Thous.	Thous.	Thous.	Thous.	Thous.
Sheep	2,503	334	461	1,186	4,484
Lamb	767	41	12	136	956
Sheep and lamb, not separately distinguished	517	19-11	20	120	657
Total—Sheep and lamb	3,787	375	493	1,442	6,097
Goat	Not	separately	distingui	shed.	1,760

In the following statement the quantities of undressed leather tanned by the firms using the above hides and skins are shown in relation to the total quantities produced by all firms:—

Undressed leather.	Unit.	Tanned by all firms.	nished part kinds of his	irms that fur- iculars of the les and skins sed.
	and buttery	Quantity.	Quantity.	Proportion of total.
Hides :— Hides for sole leather Hides, other than for sole leather :	Tons	77,795	38,727	Per cent 49·8
Ox and cow {	Tons Th. sq. ft. Dozens	17,666 1,202 290	8,766 1,172 9	49·6 97·5 3·1
Calf and kips	Tons Th. sq. ft. Dozens Tons	1,590 10,857 113	540 7,295 102 1,234	$ \begin{array}{r} 34 \cdot 0 \\ 67 \cdot 2 \\ 90 \cdot 3 \\ 44 \cdot 1 \end{array} $
Other sorts	Th. sq. ft. Dozens	2,788 725 1,660	7	1.0
Not separately distinguished { Skins:—	Tons Th. sq. ft.	2,188 25,828	523 6,873	23·8 26·6
Goat {	Tons Th. sq. ft. Dozens Tons	124 7,880 29,887 954	6,721 27,934 387	85·3 93·1 41·1
Sheep, whole or split {	Th. sq. ft. Dozens	24,483 644,174	13,497 365,305 37	55·1 56·7 9·2
Other sorts {	Tons Th. sq. ft. Dozens	404 1,126 39,113	451 30,469	40·0 77·9
Not separately distinguishe l	Tons Th. sq. ft. Dozens	349 22,156 17,508	349 14,130 12,152	100·0 63·8 69·4
Total—Undressed leather	Tons Th. sq. ft. Dozens	103,858 94,257 732,745	50,563 50,146 435,971	48·7 53·2 59·5

Tanning materials.—The following particulars of the kinds and quantities of tanning materials used were furnished by firms that produced £8,416,000 of undressed leather, or 56 per cent. of the total value of undressed leather produced for sale in the year.

materials

Kind of tanning materials. Quantities Kind of tanning materials. Quantities. Tons. Tons. Used as bark :-Used as extracts :-Oak bark, British 4,430 Chestnut 16,015 Oak bark, imported 252 Hemlock 216 Wattle bark 6,469 Myrobalans 5,676 . . 700 Total-Used as bark 11.151 7,168 Quebracho Valonia .. 384 Wattle .. Used in crude form :-6.873 Gambier 883 Blended .. 15,267 Myrobalans 7.616 . . Sumach 3,261 Total—Used as extracts 52,299 Valonia .. 4,116 Synthetic tanning materials 770 Total-Used in crude 15,876 3.644 form Other tanning materials ... Chrome tanning :-Chrome salts .. 146 Chrome liquor ... 1,335 Total-Chrome tanning TOTAL—ALL TANNING

The quantities of the tanned hides and skins returned by these firms are given below in relation to the total make of undressed leather in the year:—

MATERIALS ..

85,221

1.481

				NAT TO THE REAL PROPERTY.	
Kind of hides and skins.	Unit.	Tanned by all firms.	Tanned by firms that furnished particulars of tanning materials used.		
Died Died	a posti	Quantity.	Quantity.	Proportion of total.	
14 Profession 2582 - 1888 25 C	A SPECIFICATION OF	Localgage	A WOTSTAN	Per cent.	
Hides for sole leather	Tons	77,795	45,921	59.0	
1 100	Tons	24,232	13,277	54.9	
Hides, other than for sole leather	Th. sq. ft.	38,612	30,984	80.2	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dozens	2,063	112	5.4	
T88	Tons	1,831	901	49.2	
Skins	Th. sq. ft.	55,645	37,014	66.5	
	Dozens	730,682	432,233	59 · 1	

Other materials.—The following particulars of other kinds of materials used were furnished by firms whose output represented about 56 per cent. of the total weight of the undressed hides and skins and about 37 per cent. of the total value of all dressed leather recorded.

Kind of materials.	Quantities.	Kind of materials.		Quantities.
Lime	Tons. 9,562	Tallow, all kinds	lo s	Tons. 266
Sulphide of sodium	1,971	Stearine, all kinds	- 0.	430
Tanners' oils	3,596	Wax, all kinds	10.00	370

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 Leather Trade 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, 20,455 operatives, or 72 per cent. of the total of 28,585 operatives for the trade as a whole, and their net output totalled £6,376,000, or 73 per cent. of the aggregate net output of 48,730,000 for the trade as a whole. The total wage-bill of these firms, as returned to the Ministry of Labour, was £2,729,000, representing about 43 per cent. of their aggregate net output.

Employment.

The detailed information relating to employment in 1924 is summarised in Table III on page 217. 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 proportions shown by the data relating to the week ended 18th October.

TOTAL STORY DESCRIPTION OF THE PROPERTY OF THE	Ma	les.	Females.		Males and females.	
Average number,	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.
1924. Operatives	2,287 137	24,785 2,754	795 84	3,463 694	3,082 221	28,248 3,448
TOTAL	2,424	27,539	879	4,157	3,303	31,696
1912. Wage earners	2,502 126	26,264 2,107	446 21	1,563 148	2,948 147	27,827 2,255
TOTAL	2,628	28,371	467	1,711	3,095	30,082
1907. Wage earners	2,118 156	25,237 2,095	452 19	1,431 147	2,570 175	26,668 2,242
TOTAL	2,274	27,332	471	1,578	2,745	28,910

The numbers of operatives recorded month by month in 1924 ranged from 731 below the average, in January, to 681 above the average, in December (see Table IIIB, page 217). The numbers

(5506)

LEATHER.

increased from month to month during the first half of the year and, after some decrease in July and August, again increased till the end of the year. The December figures were in excess of those for January by 7 per cent. for females, by somewhat less than 5 per cent. for males and by 5·1 per cent. for the two sexes together.

Mechanical Power.

The detailed information relating to mechanical power in 1924 is summarised in Table IV on page 218. 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.

The are the selection and affects. To higher the engine ellections and ellections are also and a selections are also also also also also also also also		1924.		1912.	1907.
Power equipment.	Ordinarily in use.	In reserve or idle.	Total.	Total.	Total.
Prime movers:—	H.P.	H.P.	H.P.	H.P.	H.P.
Reciprocating steam engines Steam turbines	17,145 340	3,424	20,569 340	15,143 60	16,981 31
Gas engines Petrol and light oil engines Heavy oil engines	11,704 185 360	2,057 35 140	13,761 220 500	7,924	4,899
Heavy oil engines	421	5	426	504	681
TOTAL	30,155	5,661	35,816	23,788	22,609
ELECTRIC GENERATORS :— Driven by—	Kw.	Kw.	Kw.	Kw.	Kw.
Reciprocating steam engines Steam turbines Gas engines	4,423 165 2,943	970 — 488	5,393 165 3,431	1,678	1,394
Petrol and light oil engines Heavy oil engines Other prime movers	41 18 77	10 90 —	51 108 77	\right\} 494	170
Total	7,667	1,558	9,225	2,177	1,568

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

		1912.		
Electric motors.	Ordinarily in use.	In reserve or idle.	Total.	Total.
Driven by— Electricity generated in own	H.P.	H.P.	H.P.	H.P.
works Purchased electricity	10,636 29,875	1,562 3,841	12,198 -33,716	1,536 3,599

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 731,000.

TABLES.

I.—Summary of results.

Particulars.	Unit.	England and Wales and Northern Ireland.*	Scotland.	United Kingdom.
Value of products and work done (Gross output)	£'000	31.189	1,910	33,099
Cost of materials used	£ 000	22,801	1,408	24,209
Paid for work given out to other	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
firms	,,	157	3	160
Net output	,,	8,231	499	8,730
Average number of persons employed	No.	29,917	1,779	31,696
Net output per person employed Mechanical power available :—	£	275	280	275
Prime movers	H.P.	33,847	1,969	35,816
Electric motors driven by purchased electricity		31,892	1,824	33,716

^{*} In order to avoid the possible disclosure of information relating to individual firms, the figures for Northern Ireland have been combined with those for England and Wales.

II.—Production.

A.—Total make of undressed leather in the year, as RETURNED ON SCHEDULES FOR THE LEATHER TRADE.

Kind of undressed leather.		Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Hides for sole leather Other hides :—		Tons	74,718	3,077	77,795
Ox and cow, except kips	{	Tons Th. sq. ft. Dozens Tons	16,406 1,189 290	1,260 13 —	17,666 1,202 290 985
Kips	}	Th. sq. ft. Dozens Tons	†	†	6,426 32 605
Calf	1	Th. sq. ft. Dozens Tons	† † 2,435	353	4,431 81 2,788
Other sorts	1	Th. sq. ft. Dozens	541	184 1,654	725 1,660
Not separately distinguished	{	Tons Th. sq. ft.	1,738 25,828	450	2,188 25,828
Total—Hide leather	{	Tons Th. sq. ft. Dozens	† †	† †	102,027 38,612 2,063
Skins:—					major 25%
Goat	{	Tons Th. sq. ft. Dozens Tons	† † * 815	† † † 139	124 7,880 29,887 954
Sheep, whole or split	}	Th. sq. ft. Dozens Tons	24,483 616,322 320	27,852 84	24,483 644,174 404
Other sorts	1	Th. sq. ft. Dozens	1,104 38,269	22 844	1,126 39,113
Not separately distinguished	{	Tons Th. sq. ft. Dozens	349 22,156 17,508	_	349 22,156 17,508
Total—Skin leather	{	Tons Th. sq. ft. Dozens	† † †	† † †	1,831 55,645 730,682
Total—Undressed leather	{	Tons Th. sq. ft. Dozens	† † † † † † † † † † † † † † † † † † † †	† † †	103,858 94,257 732,745
* C f L T. 1.1. T					

* See footnote to Table I.

B.—Total make of dressed leather in the year, as RETURNED ON SCHEDULES FOR THE LEATHER TRADE.

Kind of dressed leather.	Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Upper leather, other than patent, varnished, japanned or enamelled:—	(Reco			
Box and willow calf	Tons Th. sq. ft. Dozens	1,752 18,850 111	8 18 —	1,760 18,868 111
Glacé kid $\left\{\right.$	Tons Th. sq. ft. Dozens	62 20,376 49,518		62 20,376 49,518
Other sorts $\left\{\right.$	Tons Th. sq. ft. Dozens	6,737 45,327 99,427	124 2,499 —	6,861 47,826 99,427
Total—Upper leather $\left\{ ight.$	Tons Th. sq. ft. Dozens	8,551 84,553 149,056	132 2,517 —	8,683 87,070 149,056
Other than upper leather:—				
Hide, calf and kip \dots	Tons Th. sq. ft. Dozens Tons	4,134 9,653 674 1,266	375 54 — 26	4,509 9,707 674 1,292
Sheep, goat and kid	Th. sq. ft. Dozens	49,822 409,168	213 27,822	50,035 436,990
Patent, varnished, japanned and enamelled	Tons Th. sq. ft. Dozens Tons	2,080 430 3,696	† <u>-</u> 561	967 2,080 430 4,257
Other sorts	Th. sq. ft. Dozens	11,412 104,147	16	11,428 104,147
Total—Dressed leather	Tons Th. sq. ft. Dozens	† 157,520 663,475	† 2,800 27,822	19,708 160,320 691,297

[†] In order to avoid the possible disclosure of information relating to individual firms, figures are given only for the United Kingdom as a whole.

^{*} See footnote to Table I.
† In order to avoid the possible disclosure of information relating to individual firms, figures are given only for the United Kingdom as a whole.

C.—OUTPUT FOR SALE OR FOR STOCK.

Output sold or added to stock.	Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom,
Leather, undressed: Hides for sole leather {	Tons £'000	74,718 10,478	3,077 491	77,795 10,969
Hides, other than for sole leather: Ox and cow (except kips)	Tons £'000 Tons	13,008 2,345	1,158 223	14,166 2,568
Calf { Kips	£'000 Tons	†		255 96 200
Other sorts {	£'000 Tons £'000	1,186 154	427 90	31 1,613 244
Total—Hides {	Tons £'000	†	†	94,029 13,908
Skins :— { Goat {	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	† † † † †	† † † †	116 31 6 § 5 23
Sheep, whole or split	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	463 132 5,305 101 358 701	131 48 — — —	594 180 $5,305$ 101 358 701
Other sorts $\left\{ \begin{array}{cccc} \end{array} \right.$	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	271 29 298 3 19 27	52 15 5 8 1 4	323 44 303 3 20 31
Total—Leather undressed	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	† † † † †	† † † † †	95,062 14,163 5,614 104 383 755
Leather, dressed:— Upper leather, other than patent, varnished japanned or		1 250	0	1.800
enamelled: Box and willow calf	Tons £'000 Th. sq. ft. £'000 Dozens	1,752 489 18,850 965 111	8 2 18 1 —	1,760 491 18,868 966 111
Glacé kid	£'000 Tons £'000 Th. sq. ft. £'000 Dozens £'000	1 62 55 20,376 806 48,480 103		1 62 .55 20,376 806 48,480 103

*†§ For notes see page 216.

C.—OUTPUT FOR SALE OR FOR STOCK—continued.

Output sold or added to stock.	Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Leather, dressed:—continued. Upper leather, other than patent, varnished japanned or enamelled:—continued.	Tons	6,712	124	6,836
Other sorts	£'000 Th. sq. ft. £'000 Dozens £'000	1,439 45,146 1,532 99,427 256	30 2,499 103 —	1,469 47,645 1,635 99,427 256
Total—Upper leather	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	8,526 1,983 84,372 3,303 148 360	132 32 2,517 104 —	8,658 2,015 86,889 3,407 148 360
Hide, calf and kip, other than upper leather	Tons £'000 Th. sq. ft. £'000 Dozens £'000	3,594 1,041 9,584 524 674 12	375 120 54 3	3,969 1,161 9,638 527 674 12
Sheep, goat and kid, other than upper leather	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000 Tons	1,266 487 49,704 1,545 385 839 3,445	$egin{array}{c} 26 \\ 15 \\ 213 \\ 7 \\ 28 \\ 40 \\ 284 \\ \end{array}$	1,292 502 49,917 1,552 413 879 3,729
Other sorts	£'000 Th. sq. ft. £'000 Th. doz. £'000 Tons	797 11,396 389 104 322 †	81 16 1 — — †	878 11,412 390 104 322 967
Patent, varnished, japanned and enamelled	£'000 Th. sq. ft. £'000 Dozens £'000	2,057 110 430 21	† †	768 2,057 110 430 21
Total—Leather, dressed {	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	† † 157,060 5,869 638 1,554	† † 2,853 117 28 40	18,615 5,324 159,913 5,986 666 1,594
Hides and skins, pickled, etc.	Tons £'000 Th. sq. ft. £'000 Th. doz. £'000	† † 3,031 32 153 215	† -	2,239 213 3,031 32 153 215

^{*†} For notes see page 216.

C.—OUTPUT FOR SALE OR FOR STOCK—continued.

Output sold or added to stock.	Unit.	England and Wales and N. Ireland.*	Scotland.	United Kingdom.
Hat leather Parchment and vellum Machinery belting { Machinery accessories of leather Machinery accessories of hide Wool { Hair { Belting of cotton and balata Leather gloves Other articles of leather Other goods made	£'000 £'000 £'000	585 63 2,395 1,296 439 † † 17,528 181 † † 104 271 65		585 63 2,726 1,544 451 108 2,016 560 18,434 186 232 62 105 287 65
Work done for the trade	€,000	461‡	4‡	465‡
TOTAL VALUE OF GOODS MADE AND WORK DONE (GROSS OUTPUT)	£'000	31,189	1,910	33,099

^{*} See footnote to Table I.

III.—Employment.

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

	Ma	ales.	Fema	ales.	Males and females.		
Kind of staff.	Under 18.	All ages.	Under 18.	All ages.	Under 18.	All ages.	
England and Wales and Northern Ireland*:-	.esto		TO MATER				
Operatives Administrative, etc.†	2,203 128	23,779 2,581	755 77	3,256 625	2,958 205	27,035 3,206	
TOTAL	2,331	26,360	832	3,881	3,163	30,241	
Scotland:— Operatives Administrative, etc.†	118	1,364 173	36 7	186 69	154 16	1,550 242	
TOTAL	127	1,537	. 43	255	170	1,792	
United Kingdom:— Operatives Administrative, etc.†	2,321 137	25,143 2,754	791 84	3,442 694	3,112 221	28,585 3,448	
TOTAL	2,458	27,897	875	4,136	3,333	32,033	

^{*} See footnote to Table I.

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

England and Wales and Northern Ireland.* (Annual average: Males, 23,437; Females, 3,276; Total, 26,713.)

Week ended	ı	Males.	Females.	Total.	Week ended	Males.	Females.	Total.
Jan. 12th Feb. 16th Mar. 15th April 12th May 17th June 21st		22,940 23,152 23,206 23,332 23,456 23,460	3,157 3,220 3,279 3,334 3,334 3,331	26,097 26,372 26,485 26,666 26,790 26,791	July 19th Aug. 16th Sept. 13th Oct. 18th Nov. 15th Dec. 13th	23,462 23,130 23,464 23,779 23,923 23,943	3,291 3,174 3,207 3,256 3,339 3,391	26,753 26,304 26,671 27,035 27,262 27,334

Scotland. (Ann	nual average:	Males, 1,348;	Females, 187	; Total, 1,535.)
----------------	---------------	---------------	--------------	------------------

Jan. 12th .	. 1,237	183	1,420	July 19th	1,361	187	1,548
3	. 1,326	190		Aug. 16th	1,335	184	1,519
	. 1,340	185		Sept. 13th	1,335	183	1,518
	. 1,356	189		Oct. 18th	1,364	186	1 550
1	1,353	191		Nov. 15th	1,391	187	1 578
	1,368	188	THE RESERVE OF THE PERSON OF T	Dec. 13th	1,407	188	1,595

United Kingdom. (Annual average: Males, 24,785; Females, 3,463; Total, 28,248.)

Jan. 12th	١	24,177	3,340	27,517	July 19th	24,823		28,301
Feb. 16th		24 478	3,410	27,888	Aug. 16th	24,465		27,823
Mar. 15th		24,546			Sept. 13th	24,799		28,189
April 12th		24,688				25,143		28,585
May 17th		24,809				25,314		28,840
June 21st		24,828	3,519	28,347	Dec. 13th	25,350	3,379	28,929

^{*} See footnote to Table I.

[†] In order to avoid the possible disclosure of information relating to individual firms, figures are given only for the United Kingdom as a whole.

‡ Amount received for work done.

§ Under £500.

[†] Administrative, technical and clerical staff.

IV.—Mechanical Power.

Particulars of prime movers, electric generators and electric motors.

Power equipment.		and Wales Ireland.*	Scot	land.	United	United Kingdom,	
1 ower equipment.	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.	Ordinarily in use.	In reserve or idle.	
Prime movers:— Reciprocating steam	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
engines Steam turbines	16,197 340	3,361	948	63	17,145 340	3,424	
Gas engines Petrol and light oil	11,264	1,918	440	139	11,704	2,057	
engines	176 360	35	_ 9	140	185 360	35 140	
Water power	191	5	230		421	5	
TOTAL	28,528	5,319	1,627	342	30,155	5,661	
Total of prime movers installed	33,847		1,969		35,816		
ELECTRIC GENERATORS :— Driven by—	Kw.	Kw.	Kw.	Kw.	Kw.	Kw.	
Reciprocating steam engines	4,309	970	114	f lates to	4,423	970	
Steam turbines Gas engines Petrol and light oil	165 2,883	465	60		165 2,943	488	
engines Heavy oil engines	41 18	10	_	90	41 18	10 90	
Water power	43		34		77		
TOTAL	7,459	1,445	208	113	7,667	1,558	
TOTAL OF ELECTRIC GENERATORS INSTALLED	8,904		321		9,225		
ELECTRIC MOTORS:— Driven by— Electricity generated	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	
in own works Purchased electricity	10,527 28,148	1,562 3,744	109 1,727	97	10,636 29,875	1,562 3,841	

^{*} See footnote to Table I.