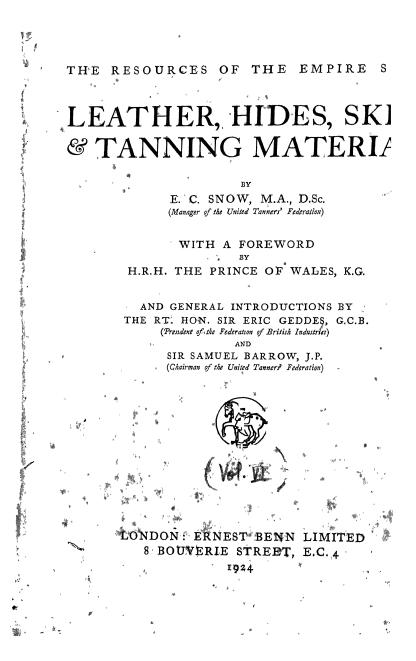
THE RESOURCES OF THE EMPIRE S] LEATHER, HIDES, SKI & TANNING MATERIA ΒY E. C. SNOW, M.A., D.Sc. (Manager of the United Tanners' Federation) WITH A FOREWORD H.R.H. THE PRINCE OF WALES, K.G. AND GENERAL INTRODUCTIONS BY THE RT' HON. SIR ERIC GEDDES, G.C.B. (President of the Federation of British Industries) AND SIR SAMUEL BARROW, J.P. (Chairman of the United Tanners' Federation)

> LONDON: ERNEST BENN LIMITED 8 BOUVERIE STREET, E.C. 4 1924



THE RESOURCES OF THE EMPIRE SERIES

LEATHER, HIDES, SKINS & TANNING MATERIALS

BY

E. C. SNOW, M.A., D.Sc. (Manager of the United Tanners' Federation)

WITH A FOREWORD BY H.R.H. THE PRINCE OF WALES, K.G.

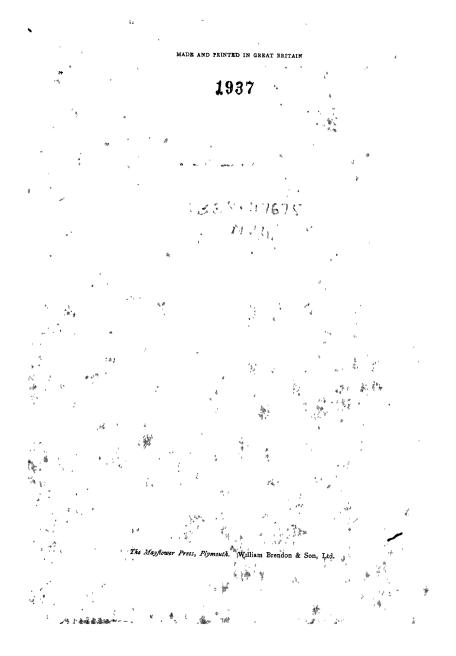
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AND

SIR SAMUEL BARROW, J.P. (Chairman of the United Tanners' Federation)



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FOREWORD

BY

H.R.H: THE PRINCE OF WALES, K.G.

No business man—especially should he contemplate an extension of activities —can afford to dispense with periodical stocktaking. The necessity for this applies equally to a country or empire, particularly when recovering from a devastating war that has resulted in heavy liabilities and dislocated the accustomed routine of trade and commerce. We are all proud of the British Empire, embracing more than a quarter of the world's land area and a similar proportion of its inhabitants, but very many of us fail to realize the infinite variety and vast extent of the Empire's natural products, which are capable of being made self-sufficing.

The volumes of this Series pass in review the material resources of the Empire, and constitute—as it were an imperial stocktaking. They deal with food and raw materials of every kind, summarize the present condition of interimperial trade, and indicate where further developments are possible.

At the present moment, when our great British Empire Exhibition is imminent, they should be of special interest both at home and overseas. It gives me great pleasure to recommend them to all those who have at heart the proper organization of the Empire's natural wealth.



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GENERAL INTRODUCTION

BY

THE RIGHT HON. SIR ERIC GEDDES, G.C.B.

In undertaking the preparation of this Series the Federation of British Industries has, I am convinced, rendered a really practical service to business men throughout the Empire.

Hitherto there has been no standard work of reference giving the information which ought to be in the possession of business men all over the world regarding the resources of Great Britain and the other countries of the Empire in the materials of industry.

It is true that there are some excellent monographs describing in general terms the resources of isolated parts of the Empire, and a very few dealing comprehensively with individual products, but, apart altogether from the fact that the sum total of the information contained in existing publications falls hopelessly far short of what is requisite, such information as exists is hardly prepared in a form adapted to the requirements of the practical man who wants neither a bare table of statistics about the products essential to him in his business nor a mere general description of the extent of the resources of a given country in those products. On the contrary, the business man wants information, not only as to the available supplies of his raw materials, but as to the quality of the supplies produced in different parts of the world, as to the amount of the undeveloped resources, as to the transport facilities, as to the local conditions of labour, etc., and as to the chances of present supplies available for import in this country being absorbed in the near future by local demands. In other words, he wants particulars of all those factors which have to be taken into account in the ordinary course of business, and he wants those particulars arranged in an accessible form.

The aim of this Series has been to give this information in this form, and thus to provide not only for our own use, but for the use of traders all over the world a compendious Buyers' Guide to our Imperial resources. I venture to think that the present is a very appropriate time for this undertaking. It is not only that all our thoughts are being turned towards the idea of Empire Trade and Empire Development by the great Exhibition which is shortly to be opened and which will be the most impressive demonstration of our Imperial productiveness that the world has yet seen. The whole trend of economic circumstances is forcing us in the same direction.

The world war has disastrously affected the Continent of Europe as a market for the manufactured goods of Great Britain and the products of the British Dominions. Even foreign countries which were neutral in the great struggle have suffered in the same way, though in a less degree. Our trade with the

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Far East and South America has suffered serious diminution, and though more than five years have now elapsed since the cessation of hostilities, the resumption of normal conditions seems but little nearer. Moreover foreign tariffs are rising higher and higher against us all over the world. Meanwhile our own productive capacity has been substantially increased and our population has grown to such an extent that we have now two million more mouths to feed and a million more men to employ than we had in 1914. It seems clear, therefore, that we need some reorientation of our commercial policy, and the obvious direction for this seems to be the cultivation of our own inheritance. A study of the facts shows that there is good hope in such a policy. Britons in all parts of the world are bound together by ties of sentiment and custom which neither distance nor difference of conditions can seriously weaken. Not only has the tremendous investment of British money in our Overseas Dominions bound us with a golden chain, there are a thousand invisible impulses always strengthening the bond. Even in 1913 our trade with the Empire was about 25 per cent (Imports) and 36 per cent (Exports) of our total world trade. The following tables show this in more detail with a comparison with the figures for the latest twelve months available. From these it will be seen that our Imports from Imperial sources show a substantial advance over pre-War, the Export figures remaining about the same.

PERCENTAGES OF IMPORTS FROM VARIOUS SOURCES

4	Oct. 1922 to Sept. 1923	Year 1913						
British-India .							6 .0	6.3
Self-governing D	ominion	s.					16.3	13.3
Other British Cou	intries (e	excep	t Hon	g-Kor	ıg).		5.3	5.3
Europe	•	•	•	•			33.2	40.4
United States .	• .	•	•		•	•	19.6	18.4
South and Centra	l Americ	ca.	•				10.8	10.0
Other Countries.	·	٠	·	•	•		8.8	6.3

PERCENTAGES OF EXPORTS (U.K. GOODS) TO VARIOUS DESTINATIONS

,		Consig	ned to	,				Oct. 1922 to	Year
	di ,				*			Sept. 1923	1913
	D 1 1 1 7 11				₩`,				
A	British-India	. :	•	•	•	•	•	12.2	13.4
WALK.	Self-governing Do	minions		•		•		18·0	17.5
19631	Other British Cou	ntries (ex	cept	Hong	-Kor	g).		5'7	5.4
	Europe		•	• • •				34.2	34.4
	United States .*						•	8.0	5.6
NA	South and Central	America				•	• • •	8.8	10.6
- 1880ar - 1	Other Countries.	•	•	•	,			13.1	13.1

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The following table shows the areas and populations of the British Territories on the various Continents :

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GENERAL INTRODUCTION

SUMMARY OF AREA AND POPULATION (1921-22)

							Area sq. miles.	Population.	
Great Britain	n and	l Irela	nd				121,633	47,308,000	
Europe .							120	234,000	
Asia .							2,123,418	332,772,000	
Africa .		•		•		•	3,822,667	50,119,000	
America				•			4,009,996	11,142,000	
Australasia	•	•	•	•	•	•	3,278,917	7,795,000	
				,			13,356,751	449,370,000	

The following table shows the approximate purchases of British goods per read of population for the first three quarters of 1923:

op and to the tot			 0 qu			-9-5	•		£	er head.
India, British								•	•	0.3
Federated Malay	State	s							•	0.2
Australia .									•	7.8
New Zealand							•			12.3
Canada .			.•	<.			-			2.3
Hong-Kong			•							7.7
Union of South .	Africa	L	•		•	•		•	•	2.1

The most striking features here are the huge acreage, small population, and large olume of purchase per head of Australasia and the relatively huge populations nd small volume of purchases in the Eastern territories, with Canada and South frica occupying an intermediate position. I will recur to this contrast later.

Finally a few figures may be given indicative of the percentage of various nportant world supplies either produced or available within the Empire :

					1915	1921
Copper (long tons)					100,000	46,000
Percentage of world production					10.3	8.5
Lead (long tons)						199,400
Percentage of world production						22.9
Tin Ore (long tons)					68,300	46,800
Percentage of world production		•	•		53.9	42.2
*		,			1913	1923
Wool, including alpaca, etc. (lbs.)			•	5,	414,067	14,077,339
Percentage of world production	·	•	·	•	74.6	77.1

It is clear, therefore, that there is an almost unlimited field for expansion our Empire trade; whilst in many lines this possibility of a self-supporting npire should be realizable. On the side of Great Britain the requisite Proictive power already exists. Overseas the position is somewhat different, and it ams clear that the requisite development of the purchasing power of the verseas Dominions can only be produced by a gradual development of the ources of those Dominions, the surest way to which will be an increase in rown consumption of their producets. There are two distinct problems, e for the tropical and one for the temperate and sub-tropical countries. In the former any substantial increase in the white population is hardly to expected, since the bulk of the work of the country must in such climates rays be done by the native races. The purchasing power of their material is therefore only be developed by the steady development of their material

resources. This, of course, means recourse to British capital, if Great Britain is to get the greatest advantage from the development and if our Imperial ideal is to be fulfilled. In our present economic condition this, of course, presents some difficulty, but if we can carry out this programme, there will follow a greater demand for British plant, machinery, shipping, rolling stock, etc., as well as a gradual increase in the consuming power of the natives.

In the temperate climates the quickest means to both our objectives lie in the speedy increase of the white populations. Nothing is more striking in the figures given above than the quantity of British goods purchased per head of these great peoples. But it is useless to attempt to stimulate emigration from this country to the Dominions unless there is a real demand for the services of the migrants when they arrive. Such a demand will only arise *pari passu* with the development of the resources of the country concerned.

The deduction to be drawn from the above considerations is obvious. How the required results are to be pursued is a more difficult question. This is not the place, nor am I the person, to embark on questions of political controversy. I will only point out that whatever method be adopted, accurate and comprehensive knowledge of the facts is absolutely essential. (All those who are engaged in business, either here or overseas, whether it be in finance, in production, in merchanting, in transport or in insurance, should be informed of what the different parts of our great Empire can produce, and the conditions under which production must take place and those under which the produce can be brought to market. There should be a general knowledge, too, of the amount of foreign competition, with which our products and materials have to contend.)

In all my experience, whether on the railways, in the turmoil of the Great War, in Government, or in commerce, I have been continually impressed with the vital importance of accurate and comprehensive statistical knowledge—and, I am afraid, too often impressed with the difficulty of getting it.

This Series is an endeavour to supply such information regarding our Imperial Resources. It cannot, unfortunately, be maintained that the results are in every case all that one could wish. However, this very inadequacy is perhaps the clearest justification for the Series. The fact that complete information cannot be given shows how necessary it is that all available information should be collected and made public. Only in this way can attention be called to what is wanting and the deficiencies made good. If the Series proves as successful as I hope it may and believe that it will, it should become a permanent institution, and it should be possible gradually to make good what is now wanting in future issues, so that eventually we may have in it a standard work of reference, which should be indispensable to all those interested or engaged in Imperial commerce or development, whether he be business man, student, or administrator.

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March, 1924

INTRODUCTORY REVIEW

BY

SIR SAMUEL BARROW, J.P.

THE subject of this volume, dealing mainly with the Leather Industry of the British Empire, is one of very particular interest to me, not only in my capacity s Chairman of the United Tanners' Federation, but on account of my personal usiness association over a period of more than forty-seven years. I have een closely concerned with the development of the Leather Industry, not nly in the Mother Country, but also in Australia and India, and the effort nade in this book to bring together in proper perspective the salient facts elating to the industry in all Empire Countries is one which is bound to be f great value, not only to those engaged in the industry, but also to those who ave Imperial interests at heart. The Federation of British Industries and he publishers are to be congratulated on the conception of the scheme, while nose engaged in the industry are fully aware that it would hardly be possible) obtain the services as editor of one better equipped for the purpose than)r. Snow. In addition to a wide statistical experience, he was closely conerned with the Government control of the Leather Industry which was xercised in this country during the War, and has for the past five years been lanager of the United Tanners' Federation, and other kindred Associations onnected with the trade in this country.

The part played by the Empire in supplying the world with the materials or leather production is shown by the fact that it contains about 40 per cent f the world's cattle, 40 per cent of the sheep, and nearly 50 per cent of the bats. India, in particular, is by far the biggest supplier of goatskins in the orld, and, in addition, has a trade in raw hides of very large proportions. ew Zealand also deserves special reference for the value of her supplies of leep and lambskins. The Empire has also a virtual monopoly of three of the ost important tanning materials-myrobalans, wattle bark, and gambier. In ew of these facts it is hardly surprising that the industry has thrived in each the Dominions, in addition to this country. Australia had, before the War, 1 export trade which, in proportion to her output, was the greatest of any the world. Canada, in addition to going far to satisfy her own requirements, is also exported appreciable quantities. South Africa has, in recent years, eveloped her industry to a marked extent, while the importance of the Indian nned kip goat and sheep trade is sufficiently emphasised by the fact that in e last year or two of the War the majority of the boots manufactured for e Army were made of upper leather from Indian tanned kips.

What effect has the Wat had on these industries? Can any permanent ange, for better or for worse, yet be detected? The answer, I think, must that, on the whole, the industry in most Empire countries (taking account

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of the acute depression which has affected the trade throughout the world for the past three years) is relatively as strong, if not stronger, than in 1913 and the previous years. In this country, though certain sections of the trade have suffered severely by imports from countries with depreciated exchanges, native production, on the whole, supplies a greater proportion of the requirements than before the War. In sole leather this proportion is now over 80 per cent, and in glacé kid over 50 per cent. The export trade of this country has also been well maintained, in spite of difficulties in many markets. In Australia the immediate view may be inclined to pessimism, this being chiefly due, however, to the falling off in her export trade, which, as I have previously mentioned, was relatively the largest in the world. In Canada also the view is rather clouded by the reflection of the factors which have caused a special depression of the industry in the United States. In South Africa, however, the industry is going ahead at a good rate.

The essential features of the Leather Industry are that the main raw material used is, for the most part, a by-product, while the finished article has always to meet competition or potential competition from articles which may be substituted for leather. An increase in demand for leather reacts very slowly on the supplies of hides, so that prices, under an increase in demand, steadily rise, and this gives further opportunities for the use of substitute materials. The prosperity of the trade, accordingly, depends to a very great extent on stability and lowness of prices, and the future of prices of hides and skins is a question affecting intimately the welfare of the industry. In this connection I would particularly draw the reader's attention to the figures set out by Dr. Snow on page 52 of Section B. In reviewing prices in the years immediately preceding the War he shows that from 1903 to 1913 hide prices increased by no less than 70 per cent, while the general level of prices moved up by only 23 per cent in the same period. Whether the circumstances indicated by these facts have only been temporarily interrupted by the War or have permanently changed time alone will show. Unless the supplies of cattle, sheep, and goats throughout the world, however, are markedly increased, the march towards a higher standard of comfort (involving an increased demand for leather products) would seem to involve a corresponding upward movement in the general level of the prices of these materials.

The facts regarding the supplies of cattle and sheep and the requirements of the world for hides and skins are accordingly of the greatest possible importance to all connected with the industry. So far as the Empire is concerned there is no other channel through which those concerned with the future of the hide and skin business can study the information available as in this book. I would therefore confidently recommend all such not only to read the various sections of the book, but to keep it by them for reference.

SAMUEL BARROW.

March, 1924.

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LEATHER, HIDES, SKINS AND TANNING MATERIALS

SECTION A

SUMMARY OF THE POSITION OF THE VARIOUS COUNTRIES OF THE EMPIRE

'HE leather industry of the Empire, unlike most other industries of importnce, involves consideration of the position not only in Great Britain, but also 1 each of the Dominions-Australia, Canada, India, New Zealand, and South frica-and in addition in many other parts of the Empire-Kenya, Nigeria, Naturally Great Britain has a leather production which, in actual tc. lagnitude, is greater than that of any other country in the Empire, but on count, not only of their supplies of raw materials but also of their actual inning output, the Dominions named could, in proportion to their population, stly claim to be as important as the Mother Country. Great Britain with her upplies of hides and sheepskins and her leather industry has developed irious industries engaged in the manufacture of all kinds of leather goods which a substantial export trade is done. Canada, on a smaller scale, is milar in respect of the leather industry to Great Britain. India is the chief pplier of the world for goatskins, and for certain classes of hides. Australia a supplier of hides and sheepskins, and has, in proportion to her population, e largest export trade in leather of any country. New Zealand is pre-eminent

the source of supply of certain classes of sheepskins in great demand. with Africa not only supplies hides, goatskins, and sheepskins, but has in e course of the present century developed a tanning material-wattle barkw probably second to none in the world. Kenya is, in respect of the raw aterials for the tanning industry, similar to South Africa in an early stage development, while Nigeria not only supplies goatskins which, for quality, ve a very high reputation, but is also a large supplier of hides. Other parts the Empire contribute in a smaller way, though special reference should made here to gambier coming from British Malaya.

In this Section a summary of the position of the various parts of the Empire ll be indicated under the following headings :----

- (a) Supplies of cattle, sheep, and goats.
 - (b) Producers, exporters, importers, and consumers of hides and skins and tanning materials.

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- (c) Producers, exporters, importers, and consumers of leather.
- (d) Producers, exporters, importers, and consumers of leather goods. VOL VI .--- 2

EMPIRE SUPPLIES OF CATTLE, SHEEP, AND GOATS

For the purpose of showing the position of the whole Empire regarding supplies of cattle, sheep, and goats a table has been compiled relating to no fewer than forty Empire countries and eighty Foreign countries. This table is too long for inclusion in this book, but the following summary has been drawn up :---

-				pre-War Fi In Millions)		Latest post-War Figures (in Millions).			
			Cattle	Sheep.	Goats	Cattle	Sheep	Goats	
Empire Countries			204	212	- 46	232	200	45	
Foreign "	•	·	333	372	76	337	309	50	
Total . Percentage in Empir	e Coun	tries	537 38	584 36	122 38	569 41	509 39	95 47	

The above summary is an approximation to the truth and shows that about 40 per cent of the cattle, sheep, and goats of the world are in the British Empire, the post-War proportion being rather higher than the pre-War one. Cattle supplies increased in the period covered by the returns, particularly in the Empire countries. Sheep and goats, on the other hand, diminished considerably in numbers. It is possible that some of the decrease is attributable to faulty post-War returns, for example, in the case of Russia, but it is general throughout many of the individual countries, and in the aggregate amounts to more than 13 per cent.

The summary figures for the Empire countries referred to in detail in subsequent sections are as follows :---

	3et	,		- ·	Last pre-War Figures (Thousands)				est post-War Figures (Thousands)			
					Cattle.	Sheep	Goats	Cattle.	Sheep	Goats		
1 1	England and Scotland	Wal	es 🧯	·	5,757 1,247	17,207 6,801		5,553 1,145	13,907 6,671			
	Ireland				4,993	3,621	246	5,197	3,708	261		
	India . Canada .	:	÷	:	157,205 6,656	31,407 2,129	30,694 	177,305 10,206	34,057 3,676	31,446		
	Australia New Zealand	•	•	·	11,484	85,057	262	13,500	77,898	2		
	South Africa		:	:	2,020 5,797	23,996 30,657	11,763	3,273 8,557	22,222 31,730	 7,837		

The chief features of the above summary are (a) the substantial falling off in sheep in England and Wales—nearly 20 per cent; (b) an increase in cattle in India, partly due, possibly, to the better enumeration of buffaloes in the post-War census; (c) a marked increase in cattle supplies in Canada, Australia, New Zealand, and South Africa; and (d) a falling off in sheep in Australia. Comments on the individual figures are made in the appropriate Sections. The pre-eminent position of India in cattle and goat supplies is evident.

Very considerable difficulties are met with in an attempt to compare the

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SUMMARY OF THE POSITION

various countries of the Empire as producers and consumers of hides and kins, leather and leather goods. Very many more data are available for post-Nar years for all the countries concerned than existed before the War, but ach country collects its information in a form prescribed by its own circumtances. Only for the post-War years is an attempt to make a full comparison ustified, and even in this many gaps have to be filled in by estimates. In ertain cases it is possible to ascertain consumption through information vailable of production and foreign trade, in others consumption figures are vailable and production has to be estimated. The method of deriving the gures referred to immediately will generally be clear from the details set out 1 later sections. The results, however, are approximate only, but are probably ifficiently accurate for a general view of the industry. A further difficulty comparison arises from the facts that the values in the cases of Canada and idia are in dollars and rupees respectively, and the period under review, 121-22, was one of rapid movements in the sterling values of these currencies. he proper indices to take for the conversion of these to sterling is difficult determine, and the figures are accordingly left in terms of the original rrencies. For the purpose of making a rough comparison the following proximate factors, obtained by averaging the weekly quotations, may be used :---

India,	1921	• .	•			Rupee = 1s. $4\frac{1}{4}d$.
	1922	•	•			Rupee = 18. $3\frac{5}{8}d$.
Canada,	1921	·	·	·	•	$f_{\rm s}$ = 4.30 dollars

RAW MATERIAL PRODUCTION

						C 49*		· · · · · · · · · · · · · · · · · · ·
	Coun	try.			Year.	Hides & Skins.	Tanning Materials.	Total.
Great Brita Canada India	in and	i Irela	and	{ {	1921 1922 1921 1921	6,500,000 6,500,000 1,860,000 4,700,000	\$ 100,000 120,000 120,000 600,000 800,000	6,600,000 6,600,000 1,980,000 5,300,000
Australia New Zealar	Iđ	•	•	{	1922 1920–21 1921–22 1921	5,300,000 4,600,000 2,030,000	340,000 340,000 360,000 Small	4,960,000 2,030,000
South Afric	a	•	•	{	1921 1922	1,000,000 2,260,000	600,000 1,040,000	2,260,000 3,300,000
Nigeria	•	•	•	{	1920 1921 1922	770,000 280,000 340,000		770,000 280,000 340,000
tenya and	Ugano	la	•	{	1920 1921 1922	230,000 80,000 80,000	10,000 10,000 10,000	240,000 90,000 90,000
l'anganyika	:	•	•	{	1921 1922	30,000 70,000		30,000 70,000

A .

Probably the most interesting feature in this table is the fact that, apart from India, Great Britain is far and away the chief Empire country supplying hides and skins. The fact that this highly concentrated industrial country is one of the most important countries in supplying raw hides and sheepskins is frequently overlooked, but in Section B much information regarding this source of supply is given. It is difficult to determine an aggregate figure for all Empire countries owing to the varying periods employed and the fact that prices were changing rapidly during those periods. Within a considerable possible margin of error the total for a twelve-month period in 1921-22 was $\pounds_{25,000,000}$. It must be borne in mind, however, that the period in question was one of extremely depressed prices, and the figure stated would represent in 1949 a value of probably more than double.

The chief tanning-material producers are South Africa, India, Straits Settlements, and Australia, and the value of a year's production for the Empire in the period of depression, 1921–22, was about £2,500,000.

RAW MATERIAL IMPORTS

The values of imports of hides and skins and tanning materials in the various Empire countries were as follows :----

Coun	ıtry.	Year.	Hides & Skins	Tanning Material.	Total.
Great Britain and Canada India Australia New Zealand South Africa Kenya and Ugand Aden British Malaya	· · · · · · · · · · · · · · · · · · ·	$\left\{\begin{array}{c} 1921\\ 1922\\ 1920-21\\ 1921\\ 1922\\ 1920-21\\ 1922-22\\ 1921\\ 1922\\ 1922\\ 1922\\ 1922\\ 1922-22\\ 1922-22\\ 1922-22\\ 1921-22\\ 1921-22\\ 1921\\ 1921\\ 1921\\ 1922\\ 192$	£ 4,400,000 6,900,000 2,490,000 Small 520,000 480,000 20,000 20,000 Small Small 20,000 370,000 350,000 250,000	£ 1,400,000 1,800,000 510,000 20,000 20,000 50,000 50,000 30,000 100,000 120,000	5,800,000 8,700,000 3,000,000 540,000 90,000 70,000 50,000 30,000 370,000 350,000 350,000 370,000 370,000

Apart from Great Britain, Canada, and Australia, the imports (excepting, perhaps, tanning materials into New Zealand) of hides and skins and tanning materials are inappreciable. The approximate totals for the Empire per annum in the period of depression, 1921–22, was about £10,000,000 for hides and skins and £2,500,000 for tanning materials.

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Important information regarding the Empire's forcign trade in hides and kins is contained in Table A 1, in which details are shown of imports of the arious classes of hides and skins into the United States from (a) Empire countries, nd (b) all countries. About 30 per cent of the supplies of the United States ome from Empire countries.

RAW MATERIAL EXPORTS

The values of exports of hides and skins and tanning materials in the arious Empire countries were as follows :---

Count	.ry.			Year.	Hides and Skins	Tanning Materials	Total
					£	£	£
Great Britain and	Trata	nd	5	1921	600,000	Nil.	600, 0 00
	i neia	nu	l	1922	750,000	Nil.	750,000
Canada .		•	•	1920–21	1,090,000	20,000	1,110,000
India .			5	1921	3,300,000	500,000	3,800,000
inuia	•	·	· l	1922	3,800,000	700,000	4,500,000
Australia ,			. 5	1920–21	1,630,000	40,000	1,670,000
ixaotiana .	·	•	'ι	1921–22	1,910,000	10,000	1,920,000
New Zealand			S	1921	1,550,000	Nil.	1,550,000
riow zounand	•	•	1	1922	1,510,000	Nil.	1,510,000
South Africa			ſ	1921	1,220,000	570,000	1,790,000
South Infilea	•	•	ì	1922	1,950,000	1,000,000	2,950,000
			ſ	1920	670,000		670,000
Nigeria .	•		4	1921	260,000	1 ⁴⁶⁻¹	» 260,000 J
			1	1922	320,000	Provide	320,000
			ſ	1920	230,000	10,000	240,000
Kenya and Ugano	la		{	1921	80,000	10,000	90,000
			1	1922	80,000	10,000	90,000
Tanganyika .			ŕ	1921	30,000	<u> 1</u>	30,000
ranganyika .	·	·	ĺ	1922	70,000		* 70,000
British Malaya			ſ	1921	100,000	250,000	350,000
Difficin Wiataya	•	•	ĺ	1922	100,000	290,000	390,000
Aden			ſ	1920-21	470,000		470,000
	•	·	٤	1921-22	560,000		560,000

India and South Africa are the chief exporting countries, followed by stralia, New Zealand, and Canada, who all exceed $f_{1,000,000}$ per annum he period referred to. The total for 12 months during 1921-22 for Empire ntries was about $f_{11,500,000}$ for hides and $f_{1,500,000}$ for tanning materials. In Table A 2, the values of the imports and exports of hides in respect of by Empire country and Protectorate (including many not of sufficient imance to be dealt with in detail later in this volume) are shown, the pre-War post-War figures being compared. No fewer than twenty-five of these utries are exporters of hides, the aggregate value pre-War being $f_{19,700,000}$

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and post-War, $\pounds_{40,700,000}$. The corresponding imports were $\pounds_{9,700,000}$ and $\pounds_{21,900,000}$. Thus the Empire showed a surplus of exports of $\pounds_{10,000,000}$ per annum pre-War and $\pounds_{19,000,000}$ per annum post-War.

In order to give some idea of the international hide trade a table has been compiled (too large for reproduction) of the imports and exports of hides and skins by weight for over forty countries. This table indicates that in an average year over the period 1909-13 the weight of hides and skins moving from one country to another over the world was about 880,000 tons. The corresponding figure for the average of 1920 and 1921 was only 450,000 tons, but this figure has no doubt considerably increased since that date. The slaughter of Frigorifico and Saladero hides in Argentine (the chief hide exporting country) alone in 1923, for example, was at least 2,500,000 animals more than the average of 1920 and 1921, and this would account for an increase in hide supplies of about 70,000 tons.

RAW MATERIAL CONSUMPTION

The values of consumption of hides and skins and tanning materials in the various Empire countries were as follows :---

Country.	Year.	Hides and Skins.	Tanning Materials.	Total.
Great Britain and Ireland Canada India .	<pre>{ 1921 { 1922 { 1921 { 1922 { 1921 { 1922 { 1921 { 1922 { 1921 { 1922 } 1922 } 1922 } 1922</pre>	£ 10,300,000 12,700,000 2,910,000 1,400,000 1,500,000	£ 1,500,000 1,900,000 610,000 530,000 100,000	£ 11,800,000 14,600,000 3,310,000 5,440,000 1,500,000 1,600,000
Australia New Zealand South Africa	$\begin{cases} 1920-21 \\ 1921-22 \\ . 1921 \\ 1920-21 \\ 1921-22 \\ 1921-22 \end{cases}$	3,200,000 540,000 440,000 310,000	320,000 370,000 60,000 80,000 70,000	320,000 3,570,000 600,000 520,000 380,000

The total consumption of hides and skins in the Empire per year in the period 1921-22 was about £20,000,000, and of tanning materials about £3,000,000. Direct comparison with the results of the quinquennial Census of Production of the United States is not possible, since the latter relate to the years 1914 and 1919. Making allowance, however, for the change in price level between 1919 and 1921-22 and also for the change in volume of production, it may be estimated in approximate terms that the consumption of hides and skins in the Empire is about 33 per cent of that in the United States.

SUMMARY OF THE POSITION

LEATHER PRODUCTION

The value of leather produced in the various Empire countries is as follows :----

Ca	ount	ıу			Year	Production.
						£
Great Britain		1 Tunla	t. a	ſ	1921	17,100,000
Great Britain	and	i ireia	na	ì	1922	21,500,000
				ſ	1920	9,300,000
Canada .				\rightarrow	1921	5,500,000
				1	1922	5,800,000
India ¹ .				ŝ	1921	8,700,000
india	•	·	•	Z	1922	12,000,000
Australia	•				1921-22	5,450,000
New Zealand					1921-22	580,000
South Africa				S	1921	760,000
South Africa	•	•	•	٤	1922	690,000

¹ Basis of calculation of doubtful value. Figures calculated approximately from estimate given Review of the Trade in Indian Hides, Skins and Leather (Indian Munitions Board), p. 3.

In the aggregate these represent for a year's production during the depression riod of 1921-22 nearly £42,000,000. The production of leather in the nited States in 1914 and 1919 was \$350,000,000 and \$850,000,000 respectively, d making the allowances for change in price and volume of production, it would pear that the British production is rather less than 40 per cent of that of the nited States.

LEATHER IMPORTS AND EXPORTS

The value of leather imports and exports in the various Empire countries as follows :----

Country.	Year.	Value of Exports.	Value of Imports.		Imports or ports	
Great Britain and Ireland	(1921 (1922 (1920	± 3,200,000 5,800,000 1,790,000	5,800,000 7,300,000 1,080,000	Imports ,, Imports	2,600,000 1,500,000 190,000	
lanada	1921 1922	930,000 1,190,000	950,000 950,000 910,000		20,000 280,000	
ndia ustralia	(1920–21 (1921–22 1921–22	2,200,000 2,700,000	900,000 500,000 270,000	Exports ,, Exports	1,300,000	
few Zealand	(1921 (1921 (1922	100,000 50,000	210,000 340,000	Imports	470,000 110,000 200,000	
outh Africa .	1921 1922	Small Small	110,000 170,000	Imports	100,000	20
ritish Malaya .	f 1921 1922	740,000 470,000	10,000 10,000	Exports	730,000 460,000	

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Australia and India are the only Empire countries with a marked surplus of exports. In the case of the latter country the exports are almost entirely of leather partially tanned, and requiring further treatment before use in the manufacture of leather goods.

A good deal of information regarding the Empire foreign trade in leather is obtained from the official returns of the United States and (for pre-War years) of Germany. Table A 3 gives details of imports into United States of various classes of leather from (a) Empire countries and (b) all countries. In 1913-14 two-thirds of the imports into the United States (the total of which was \$13,800,000) came from the Empire; in 1921-22 the corresponding proportion was nearly three-quarters. Table A 4 gives details of exports from the United States of various classes of leather to (a) Empire countries and (b) all countries. In 1913-14, 56 per cent went to Empire countries, while in 1921-22 the corresponding proportion was rather less than 50 per cent. The only figures conveniently available for Germany relate to 1912 and are collected together in Tables A 5 and 6. Of Germany's total import of leather, valued at $\pounds_{3,400,000}$ in that year, 45 per cent came from Empire countries. Germany's export in the same year was no less than $\pounds_{11,500,000}$ (of which nearly half was upper leather), of which, however, not much more than 25 per cent came to Empire countries.

LEATHER CONSUMPTION

The value of the consumption of leather in the various Empire countries is as follows :--

	Cou	intry.			Year.	Value of Consumption	
							£
Great Britain	لاسم	Test	n d		ſ	1921	19,700,000
Great britain	ana	Tiens	ma	•	ĺ	1922	23,000,000
. ,					ſ	1920	9,500,000
Canada					\downarrow	1921	5,500,000
					1	1922	5,500,000
T. 11.1					ř	1920-21	7,400,000
India ¹	·	•	•	•	ί,÷,	1921-22	9,800,000
Australia		•				1921-22	5,000,000
New Zealand			•. 2			1921	780,000
a	3		- + ¹		٢	1921	870,000
South Africa		·	•	·	٤	1922	860,000

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¹ Basis of calculation of doubtful value. See footnote on p. 23.

The approximate total for the whole Empire in a year during the period of depression in 1921-22 was $\pounds 44,000,000$.

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SUMMARY OF THE POSITION

PRODUCTION OF LEATHER MANUFACTURES

The value of the production of leather goods (including boots and shoes) 1 the various Empire countries was as follows :---

	Cou	ntry.		Year.	Value of Production.		
Great Britain Canada India ¹ . Australia New Zealand South Africa		reland	1 • • •	•	{ { {	1921 1922 1920-21 1920-21 1921-22 1921-22 1921-22 1921 1922	£ 34,000,000 43,000,000 13,300,000 20,000,000 12,600,000 1,390,000 1,390,000

¹ Basis of calculation of doubtful value.

The approximate total for the whole Empire in one year of the period 21-22 was about £82,000,000.

IMPORTS AND EXPORTS OF LEATHER MANUFACTURES

The value of the imports and exports of leather goods (including boots shoes) in the various Empire countries was as follows :---

Country.				Year.	Value of Exports.	Value of Imports.	Surplus of Imports or Exports.		
							т к		
			~		£	£		£	
reat Britain	and	Treland	١Į.	1921	3,900,000	1,800,000	Exports	2,100,000	
			· (1922	4,200,000	2,400,000	",	1,800,000	
ınada .		•	•	1920-21	440,000	790,000	Imports	350,000	
dia .			5	1920-21	100,000	1,600,000	Imports	1,500,000	
uia .	•	·	ſ	1921-22	30,000	800,000	-, ,	770,000	
stralia				1921-22	150,000	270,000	Imports	120,000	
w Zealand			ſ	1921	Small,	380,000	Imports	380,000	
w Zealand	•	•	ì	1922	Small	630,000	,	_ წვი,იიი∞	
uth Africa			ŕ	1921	40,000	880,000 +		840,000	
uth Africa	·	•	ĺ	1922	20,000	1,220,000	, <u> </u>	1,200,000	
al a						3		, «	

he only country showing a surplus of exports was Great Britain, all the Empire countries being, on the balance, substantial importers of leather 3. Some information on Empire foreign trade in leather manufactures

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is shown in Tables A 7 and 8. The former gives the imports into the United States from (a) Empire countries and (b) all countries. The Empire countries, however, only supply a small proportion (not much more than 10 per cent) of United States imports, the bulk of which are leather gloves, for which France is the most important country of supply. Table A 8 shows that before the War about 30 per cent of the exports of leather goods from the United States came to Empire countries, but this proportion has fallen to 15 per cent.

CONSUMPTION OF LEATHER GOODS

The value of the consumption of leather manufactures in the various countries is as follows :—

	ountr	у			Year Value of Consumption			
*							£	
0 . n. · · ·		т. 1.	. 1		ſ	1921	31,900,000	
Great Britain	and	Irela	na	•	í	1922	40,800,000	
Canada						1920-21	12,600,000	
* * 1					ſ	1920-21	14,800,000	
India ¹ .	•	·	•	·	1	1921-22	20,800,000	
Australia						1921-22	12,700,000	
New Zealand						1921-22	2,150,000	
0 1 10					٢	1921	2,220,000	
South Africa	·	·	·	·	٦	1922	2,560,000	

¹ Basis of calculation of doubtful value.

The aggregate for the countries named in 12 months during the depression period, 1921–22, was about £83,000,000.

FORM OF STATISTICS

It will be appropriate to refer in this section to the question of the comparability of the statistics relating to the industry in the different Empire countries. The actual data available are very far from presenting a homogeneous body of information such as might be inferred from the more or less orderly summary given in this book. One of the chief difficulties in attempting comparisons is the variation in practice in the period used. In Great Britain all annual statistics are collected for the calendar year. In the other parts of the Empire some annual statistics are available relating to the calendar, others for the year ending March 31st, and yet others for the year ending June 30th. In Australia, indeed, certain of the provincial governments use one period and others another period in connection with the compilation of exactly similar information. The determination of the particular period in any country depends upon factors much wider in application than the limits of one particular industry, and those concerned with a particular industry must accept

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ne position created by these wider considerations. It may be pointed out, owever, that the greatest degree of comparability possible would follow from ne general adoption of the calendar year throughout, and the general tendency roughout the world is in this direction. The United States figures, for cample, are now available for the calendar year, though until recent years to fiscal period ending June 30th was employed.

The data necessary for a comprehensive view of the industry can be sumarised under one or other of three main headings :---

- (a) Import and export statistics of the raw materials and finished products.
- (b) Census of the materials used in the industry.
- (c) Census of the products obtained from the industry.

In certain cases the form of the import statistics is determined entirely the exigencies of the import tariff, and all goods subject to the same import ity are included under one heading in the statistical return, however disnilar they, or the use to which they are put, may be.

A further source of difficulty arises through the use of different units in the ide returns. The returns for Great Britain show the imports and exports of per leather and other forms of dressed leather by weight and value, and not the unit invariably used in the industry itself, viz. the square foot. Most the other countries of the Empire, however, as well as the United States d some Continental countries, use the trade unit, and there can be no doubt it, for the purposes of the industry itself, this is by far the most satisfactory It must not be overlooked, however, that the statistics of imports irse. 1 exports of the goods relating to a particular industry are not necessarily. npiled in the interests primarily of that industry, and that other interests ve to be borne in mind. It is of some importance, for example, in Great tain to know the actual weight of all imports and exports; during the ight difficulties in the War period the factor that really mattered was shipping ight, and this would not have been readily available if, for example, upper ther imports had been tabulated by area alone. The best solution, of course, uld be to use always weight and value and in addition extra units where This applies again to the imports and exports of hides and skins. ed for. the returns of Great Britain hides and calfskins are returned by weight, le goatskins and pickled sheepskins (but not woolled) are returned by nber. In trade reports published by brokers, hides are invariably returned A further point which may be referred to is that of tanning number. These are of two main classes (a) solid and (b) liquid, and there is a acts. it difference from the point of view of the trade itself between the importation. a certain weight of solid extract and the importation of an equal weight iauid.

Bearing these points in mind, the form of return now used in Great Britain v serve, with a few additions and modifications, as the basis from which, t were generally adopted throughout the Empire, where applicable, the test amount of information of value could be derived. As Great Britain, i in the raw materials and finished products of the industry, covers for all is shown in Tables A 7 and 8. The former gives the imports into the United States from (a) Empire countries and (b) all countries. The Empire countries, however, only supply a small proportion (not much more than 10 per cent) of United States imports, the bulk of which are leather gloves, for which France is the most important country of supply. Table A 8 shows that before the War about 30 per cent of the exports of leather goods from the United States came to Empire countries, but this proportion has fallen to 15 per cent.

CONSUMPTION OF LEATHER GOODS

The value of the consumption of leather manufactures in the various countries is as follows :—

	Count	ry	Year.	Value of Consumption			
,							£
Great Britain	and	Trela	nd		5	1921	31,900,000
				•	l	1922	40,800,000
Canada	•	•	•	•	. •	1920–21	12,600,000
India ¹ .					<u>ک</u> '	1920-21	14,800,000
A . 1	-	•	•	·	l	1921–22	20,800,000
Australia	•	•	•		•	1921-22	12,700,000
New Zealand	•	•	•			1921-22	2,150,000
South Africa					5	1921	2,220,000
		•	•	•	ſ	1922	2,560,000

¹ Basis of calculation of doubtful value.

The aggregate for the countries named in 12 months during the depression period, 1921-22, was about £83,000,000.

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FORM OF STATISTICS

It will be appropriate to refer in this section to the question of the comparability of the statistics relating to the industry in the different Empire countries. The actual data available are very far from presenting a homogeneous body of information such as might be inferred from the more or less orderly summary given in this book. One of the chief difficulties in attempting comparisons is the variation in practice in the period used. In Great Britain all annual statistics are collected for the calendar year. In the other parts of the Empire some annual statistics are available relating to the calendar, others for the year ending March 31st, and yet others for the year ending June 30th. In Australia, indeed, certain of the provincial governments use one period and others another period in connection with the compilation of exactly similar information. The determination of the particular period in any country depends upon factors much wider in application than the lines of one particular industry, and those concerned with a particular industry must accept

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he position created by these wider considerations. It may be pointed out, owever, that the greatest degree of comparability possible would follow from he general adoption of the calendar year throughout, and the general tendency moughout the world is in this direction. The United States figures, for sample, are now available for the calendar year, though until recent years he fiscal period ending June 30th was employed.

The data necessary for a comprehensive view of the industry can be sumuarised under one or other of three main headings :---

- (a) Import and export statistics of the raw materials and finished products.
- (b) Census of the materials used in the industry.
- (c) Census of the products obtained from the industry.

In certain cases the form of the import statistics is determined entirely / the exigencies of the import tariff, and all goods subject to the same import ity are included under one heading in the statistical return, however disnilar they, or the use to which they are put, may be.

A further source of difficulty arises through the use of different units in the ade returns. The returns for Great Britain show the imports and exports of per leather and other forms of dressed leather by weight and value, and not r the unit invariably used in the industry itself, viz. the square foot. Most the other countries of the Empire, however, as well as the United States d some Continental countries, use the trade unit, and there can be no doubt at, for the purposes of the industry itself, this is by far the most satisfactory It must not be overlooked, however, that the statistics of imports urse. d exports of the goods relating to a particular industry are not necessarily q npiled in the interests primarily of that industry, and that other interests ve to be borne in mind. It is of some importance, for example, in Great itain to know the actual weight of all imports and exports; during the ight difficulties in the War period the factor that really mattered was shipping ight, and this would not have been readily available if, for example, upper ther imports had been tabulated by area alone. The best solution, of course, uld be to use always weight and value and in addition extra units where led for. This applies again to the imports and exports of hides and skins. the returns of Great Britain hides and calfskins are returned by weight, ile goatskins and pickled sheepskins (but not woolled) are returned by nber. In trade reports published by brokers, hides are invariably returned number. A further point which may be referred to is that of tanning racts. These are of two main classes (a) solid and (b) liquid, and there is a at difference from the point of view of the trade itself between the importation a certain weight of solid extract and the importation of an equal weight iquid.

Bearing these points in mind, the form of return now used in Great Britain 7 serve, with a few additions and modifications, as the basis from which, t were generally adopted throughout the Empire, where applicable, the test amount of information of value could be derived. As Great Britain, 1 in the raw materials and finished products of the industry, covers for all practical purposes the whole range covered by all the Empire countrid would only be necessary to delete the items not applicable to make it appriate for the other countries. The suggested model is as follows :---

			Green			Weight.	Number.	Valı
	(a)	Cattle hides			y salted.	,,	,,	,,
		Horse-hides	Wet sa	lted.		,,	,,	,,
		Calfskins	**		,,	**	"	,,
		Callskins	"		"	**	,,	"
	(b)	Sheepskins		l (wi	thout wool).	"	"	"
	φ ·	Goatskins	{Dry ar Wet sa		y salted.	**	**	"
		Crude tanning materia				"	******	,,
		Tanning extracts, solid				,,		,,
		Tanning extracts, liqu				**		,,
	(c)	Sole leather (including	offal)			"		"
	(d)	Rough hide leather (in		ffal)		,,		,,
		Rough goatskin leather			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	,,
		Rough sheepskin leath			· •	"	,,	,,
		Glacé kid upper leathe				Square feet	•	,,
		Chrome calf upper leat Patent upper leather	ner			,,		"
		Other chrome upper le	athor			,,		,,
		Other upper leather	ather			Weight.		"
			1.1			Square feet		"
h.		Dressed hide leather, n	ot upper			-	•	"
		Dressed calf and kip	leather.	not u	pper	,,		**
		Dressed goat and sheep	leather	,,	, , , , , , , , , , , , , , , , , , ,	**		,,
t		Patent and enamelled l	eather!	,,	.,	,,		"
- 'r								"

Many of the headings shown could be subdivided with considera advantage if the returns could be reliably obtained. There is great dan that such subdivisions would defeat their own end since there is a good c of elasticity in trade expressions and terminology. In the returns for Gr Britain, for example, in recent years a subdivision of Rough Hide Leath viz. Rough Tanned Kips, has been made, but it is certain that the leat which certain traders have been returning under the latter heading has many others been returned under the former. The inclusion of the su division, accordingly, is a distinct disadvantage, and would lead those with access to other detailed information to wrong conclusions. Certain su divisions of the above headings which would be of value if they could properly attended to may, however, be referred to.

(a) The subdivision of "buffalo-hides" under the heading "cattle hide. India already has this subdivision, buffalo-hides being a considerable item her exports.

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(b) The separation of lambskins from sheepskins.

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(c) The subdivision of "Bellies and shoulders for sole leather" in the leather Class.

(d) The subdivision of "Rough tanned bellies and shoulders" in the ough Hide Leather Class.

Turning next to the form of return appropriate for the determination of e materials used in the industry, practically nothing officially is available in reat Britain, but most of the Dominions collect a certain amount of information

Cattle hides used	Number.	Value.
Horse-hides "	27	,,
Calfskins "	,,	33 1
Goatskins "	**	
Sheepskins "	37	,,
Crude tanning materials used (each sort used to be specifie	Weight.	**
Solid tanning extracts use		,,
Liquid tanning extracts "	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,
Chrome tanning materials ,,	, ,,	,, ,
Chemicals "	, ,,	,,
Oils and fats ,,	, ,,	**
Dyes "	99. r	4 . * . *

Considerable subdivision is possible in many of the above headings, e.g. nemicals. In view of the fact, however, that alternative materials may be ed by different firms and by the same firm at different times, the information tained through further subdivision might be misleading.

It may be pointed out that, inasmuch as we are dealing with materials *used* d not materials *purchased* (there may often be a great difference between se), some little trouble may be needed to state values.

The most suitable form used by any of the Empire countries for a statistical scription of the goods produced is that used by Canada in the annual report the Dominion statistician on the leather industry. These reports are not blished *in extenso*, but summaries of them are circulated to the Press. ble D 9 in Section D shows the form there used, and, making the necessary diffications to suit the special circumstances of each country, this table may referred to as indicating a suitable model for trade purposes for production tistics.

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LEATHER, HIDES, AND SKINS

TABLE A 3

UNITED STATES.—IMPORTS OF LEATHER FROM EMPIRE COUNTRIES DOLLARS (000)

			1913-14			1921-22		
Article.	From Empire Countries	From All Countries.	Per cent from Empire	From Empire Countries	From All Countries	Per cent from Empire		
Belting and sole leather Glove leather Rough tanned goatskins Chamois Calf and kid upper leather Goat and kid upper leather Sheep and lamb upper leather All other upper leather All other leather		3,467 81, 2,096 <u>36</u> <u>-</u> 1,584 1,677	3,632 2,209 2,249 74 2,622 3,003	96 95 49 61 55	906 21 196 17 838 19 49 537 3,750	1,115 181 213 78 1,311 195 158 783 4,565	81 11 92 22 63 10 31 69 83	
Total		8,941	13,789	65	6,333	8,599	- 74	

TABLE A 4

UNITED STATES .- EXPORTS OF LEATHER TO EMPIRE COUNTRIES

DOLLARS (000)

			4		1913-14	-		1921–22	
Arficle,			To Empire Countries	To All Countries.	Per cent to Empire.	Empire	To All Countries,	Per cent to Empire.	
For carriages and automobiles		biles		44	74	60	15	166	
Glove leather Patent leather Sole leather Calf upper leather Kid upper leather				353	359	100	45 600	627	27
			-	616	1,676				97
			•			37 85	3,028	6,921	44
	•	•	•	6,323	7,476	85	1,412	4,968	29
	•	•	•	666	2,175	30	2,530	4,476	57
	·	•	•	7 , 177	16,811	44	5,306	8,463	63
Other upper leather	•	·	•	2,766	3,904	71	1,540	4,138	63 38
All other leather	·	•	·	2,140	3,314	Ġ5	887	1,974	45
Total 🎘 🗼	•	•	·	20 ,0 85	35,789	58	15,348	31,733	49

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SUMMARY OF THE POSITION

TABLE A 5

GERMANY .--- IMPORTS OF LEATHER FROM EMPIRE COUNTRIES VALUE £ (000)

1912

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					1912	
Article.				From Empire Countiies	From All Countries	Per cent from Empire.
Rough tanned sheep				729	1,124	65
Rough tanned goat				415	427	97
Upper leather .				ΪĮ	80	23
Sole leather .				2	155	ĩ
Belting leather .				78	176	44
Leather for furniture, b	ags,	etc.	• •	12	48	25
Calf leather				9	23	39
Cow leather		•		ц	4Ĭ	27
Glacé leather for gloves				I	18	Ġ
Wash leather for gloves				3	15	20
Dressed goat and kid				12	362	3
Other sheep and lamb l	eath	er.	.	164	735	22
Varnished leather				35	84	42 .
Other leather .	•	•	•	67	118	57 🗼
Total				1,556	3,406	46

TABLE A 6

GERMANY .--- EXPORTS OF LEATHER TO EMPIRE COUNTRIES VALUE f(000)

	•	1912		nte l'ap a
Article.	To Empire Countries,	To All Countries.	Per cent to Empire.	i, *
Upper leather Sole leather Belting leather Leather for furniture, bags, etc. Horse-hide leather Glacé leather for gloves Wash leather for gloves Other goat and kidskin leather Other sheep and lambskin leather Varnished calfskin Varnished calfskin Varnished calfskin Varnished calfskin	2,197 217 5 29 5 4 11 179 35 140 219 4	5,461 800 39 560 49 622, 73 1,255 418 765 1,267 ,267	** 40 27 13 5 10 	4- **
Total	3,045	11,499	£ 28	
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LEATHER, HIDES, AND SKINS

TABLE A 7

UNITED STATES.—IMPORTS OF LEATHER MANUFACTURES FROM EMPIRE COUNTRIES DOLLARS (000)

		1913-14		1921-22		
Article.	From	From	Per cent	From	Fiom	Per ceni
	Empire	All	from	Empne	All	from
	Countries.	Countries.	Empire	Countiies	Countries.	Empire.
Boots and shoes	272	407	67	396	573	69
Gloves	847	9,722	9	398	13,190	3
All other manufactures	430	1,147	38	911	1,702	43
Total	1,549	11,276	14	1,705	15,465	11

TABLE A 8

UNITED STATES.—EXPORTS OF LEATHER MANUFACTURES TO EMPIRE COUNTRIES DOLLARS (000)

1913-14

1921-22

Article.	To Empire Countries	To All Countries.	Per cent to Empire,	To Empire Countries	To All Countries.	Per cent to Empire.
Belting .	241	880	27	384	1,476	26
Children's boots and shoes	312	1,637	19	113	3,343	3
Men's boots and shoes	2,423	10,118	24	668	16,319	4
Women's boots and shoes	2,953	6,112	48	1,838	5,016	37
Slippers	323	362	. 89	56	97	58
Harness and saddlery	270	786	34	78	697	11
Other manufactures	1,323	1,881	73	1,136	1,868	63
Total .	7,845	21,776	39	4,273	28,816	15

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SECTION B

GREAT BRITAIN AND IRELAND

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SECTION B

GREAT BRITAIN AND IRELAND

A GREAT deal of the information regarding the leather and allied industries in Great Britain and Ireland relates to the combined countries and cannot be shown for them separately. Until May, 1923, the import and export statistics issued by the British Board of Trade monthly and annually referred to trade between Great Britain and Ireland with other countries, but since that date the trade between Great Britain and the Irish Free State has been included as British foreign trade, and caution is required, accordingly, in the comparison of the figures for 1923 with those for previous years. For example, the Board of Trade Monthly Returns for December, 1923, gave in parallel columns the total exports of boots in 1922 and 1923 as 5,900,000 pairs and 9,550,000 pairs respectively, and the inference has been drawn that the British boot exports are rapidly moving towards the pre-War figure (17,500,000 pairs). The 1923 figures, however, include 2,600,000 pairs exported from Great Britain to the Irish Free State, for which there was no corresponding figure in 1922, and the increase accordingly between 1922 and 1923 was only about 1,000,000 pairs and not 3,600,000 pairs. Most of the statistics included in this Section will, however, refer to the pre-1923 period, and such figures will be referred to as those for the United Kingdom.

SUMMARY OF RAW MATERIAL POSITION

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Tables B 1 to 8 set out in summary form, both for quantities and value, the general situation (both pre-War and post-War) as regards supplies required by the leather and leather-goods industries in the United Kingdom of imported goods. Particulars of native supplies are dealt with in detail later. The tables referred to give the facts as to source of origin according to (a) Empire countries; (b) Foreign countries of (1) hides and skins, (2) tanning materials, (3) leather, and (4) leather manufactures.

Owing to the fact that there is a considerable re-export trade in raw hides and skins and tanning materials, these tables do not readily enable a bird's-eye view to be obtained indicating the relative degree of dependence of the industry as a whole on Empire and Foreign countries. It is not possible completely to show for each country of origin the amount of re-export of each class of material, but fairly satisfactory estimates may be made. Bringing into account native supplies the position of Great Britain regarding the raw material of the leather industry can be summarised as follows :---

Supplies of Material used for the Production of Leather in the United Kingdom value f(000)

VALUE 2(OC	.0)		
(a) Native supplies—	1913	1921	1922
Hides and skins (less exports).	4,800	5,900	5,750
(b) Empire supplies—			
Wet hides	879	366	474
Dry hides	1,563	859	882
Sheepskins	2,668	1,752	2,921
Goatskins	1,247	649	1,125
Tanning materials	665	518	765
Rough tanned leather requiring	•		
further treatment	3,135	1,878	2,579
			-
Less estimated re-exports of materials			
imported from the Empire	5,600	3,450	4,000
Total supplies imported from Empire			
(approximate) ·	4,500	2,600	4,700
(c) Foreign supplies—			
Wet hides	2,282	2,063	1,767
Dry hides	1,124	465	1,071
Sheepskins	446	337	531
Goatskins	241	70	71
Tanning materials	1,188	870	991
Rough tanned leather requiring			
further treatment	230	270	350
Less estimated re-exports of materials			
imposted from foreign countries .	1,300	900	800
Total supplies imported from foreign			
countries (approximate)	4,200	3,200	4,000
Grand total of supplies	13,500	11,700	14,450
Percentage Native supplies	36	50	40
" Empire " .	33	22	33
" Foreign " .	31	28	27

Allowing for some degree of error in the estimates, it is probably not far from the truth to say that before the War the British leather industry was dependent upon (a) home supplies, (b) Empire supplies, and (c) foreign supplies approximately to an equal extent. The year 1921 was abnormal in the leather industry and imports were small, this being reflected in the high proportion of native supplies in that year; 1922 was more nearly normal (but not so near normal as 1923; the figures for which are not at the time of writing

available), and it is not possible to say if there is likely to be any change in the pre-War proportion. Inasmuch as the native supplies are decreasing (it will be shown later, for example, that supplies of sheepskins have diminished by 20 per cent as compared with pre-War), development of the industry in this country will depend mainly upon increase in imported supplies; the importation of live cattle (e.g. from Canada) will, however, help to increase supplies of hides readily available in this country.

SUMMARY OF LEATHER POSITION

Coming next to the position of the production of leather in this country, reference may first be made to the results of the Census of Production held in 1907. The only complete census of the output of the leather industry, the results of which have been published, is that taken in the general Census of Production of the United Kingdom in 1907. A further census was taken in 1912, but the results have never been published. Many censuses were taken during the War, but none of these covered the whole industry. The salient features of the leather trade (tanning and dressing) determined by the Census of Production in 1907 are set out in Tables B 9, 10, and 11. Excluding from Table B 9 (value of production) certain items not falling properly under the heading of leather (but rather of leather manufactures and waste products), a total value of the output of £15,600,000 is obtained for 1907. This figure, however, contains certain duplications, inasmuch as the value of rough tanned leather sold by a tanner to a currier was included in the census return made by each of them. In the census report it was pointed out that the magnitude of this duplication could not exceed $f_{2,500,000}$, but it was not suggested that this figure truly represented the amount to be subtracted from the £15,600,000 in order to obtain the true output; and if we accept the "mean" between the minimum and maximum limits an output of $f_{14,500,000}$ in round figures is obtained. In order to act as a check on estimates of production to be made later for subsequent dates for which no census results are available, it is of interest to compare this figure with that obtained by the application of the method which will be used and which is the only means available for forming the later estimates. It is estimated that the net value of the native hide and skin supply (allowing for exports) in 1907 was rather over £4,500,000. The value net (i.e. allowing for re-exports) of imports of hides and skins and tanning materials was as follows :--r

							2
Wet hides .	•	•				•	1,320,000
Dry hides .					•	•	720,000
Goatskins .					•		360,000
Woolled sheeps	kins						1,420,000
Pickled sheepsk	ins						160,000
Tanning materi	als						1,330,000
Rough tanned le	ather 1	equir	ing fui	rther t	reatm	ent	1,600,000

These, together with the native materials, make a total of £11,410,000, say

£11,500,000 in round figures. As the result of various enquiries it may be assumed that before the War, on the average of the different classes of the industry, the amount spent on materials was about 80 per cent of the turnover in leather, and this percentage is confirmed by the results of the census itself. This percentage applied to the above figures gives as the value of the output of leather for 1907, £14,250,000. Taking all the factors of estimation into account this is a satisfactory agreement with the results given by the census and estimates made by this method for subsequent years, therefore, are probably fairly near the truth.

					£
1913 .	•				6,000,000
1921 .			•		6,500,000
1922 .	•	•		•	6,500,000

and the corresponding consumption (allowing for exports) accordingly as follows :---

						t
1913	•		•	•		4,800,000
1921	•		•		•	5,900,000
1922		,	•	•		5,750,000

The net imports of hides and skins and tanning materials and rough tanned leather requiring further treatment in the three years were :---

				£
1913 .	•			8,700,000
1921 .	•			5,800,000
1922 .	•	•	•	8,700,000

Adding these to the figures for native supples given above, the figures for the total consumption are deduced as follows :---

						~
1913	•	•	•	•	•	13,500,000
1921	•	•	•	•	•	11,700,000
1922	٠	•	·	•	•	14,450,000

For 1913 the figure given above, viz. 80 per cent, as the proportion of the value of raw material to leather produced, approximately holds, but for 1921 and 1922 it is estimated that the corresponding percentage was about 70 per cent. and the second second

Accordingly the data for the various years leads to the following results for the production of leather :---

N	1913 .				£ 17,000,000 appr	oximately
	1921 .	•	• •	•	14,500,000	,,
	1922	•	• •	•	18,000,000	>>
		9 1 4 5 1 1 4 7 4 7 7 4	4 - 4 M	T		

: is hardly possible to state a margin of error in these estimates, but judging om the result for 1907 they are probably within 5 per cent of the truth. The icrease in the value of the production between 1913 and 1922 was less than ould have been accounted for by increase in price alone with an equal volume f production. The volume of production in 1922 was accordingly less than 1913. The figures of imports of raw materials for 1923, so far as available the time of writing, show a substantial increase on those of 1922, and the tal production was no doubt appreciably larger.

The comparison of production of leather with imports of leather may now 2 made. Tables B 5 to 8 summarise all the items concerned, and allowing r the rough tanned leather requiring further treatment after importation here, e figures are :---

Undressed leather (main leather)—	nly sol	le		1913 £(000)	1921 £(000)	1922 £(000)
Imports		•			915	952
Re-exports .					915 88	55 -
Net imports (estimate	ed)			2,000	827	897 '
Dressed leather-					•	
Imports	•			4,706	5,285	6,846
Re-exports .				504	351	441
Net imports .				4,202	4,934	6,405
All leather—				.,	1.501	
Imports					6,200	7,798
Re-exports .					439	496
Net imports (approxi	mate)	•	•	6,200	5,800	7,300

the tables referred to, the amounts of the gross imports of each article coming om foreign and Empire countries are shown. Allowing for the re-exports it estimated that only about 10 per cent of the net amount of imported leather, her than leather requiring further treatment after arrival here, "comes from pipe countries, no less than 90 per cent coming from foreign countries.

Taking 1922 as the more representative of the post-War years, the post-War ports were approximately $£7,300,000^{-1}$ as compared with a production of 8,000,000, so that the production was nearly $2\frac{1}{2}$ times the imports. For 13 the imports were £6,200,000 as compared with a production of £17,000,000, substantially more than $2\frac{1}{2}$ times the imports.

The export figures for leather for the same years were as follows :---

					191 3 £(000)	1921 £(000)	1922 £(000)
Undressed leather		•		•	1,244	1,583	1,743
Dressed leather	·	•	•	•	2,224	1,657	2,023
All leather .	•	•	•	•	3,468	3,240	3,766

¹ The figures for 1923, which have since become available, show a total net import, allowing leather requiring further treatment, of about £7,000,000.

Prices in 1921 were, on the average, approximately 50 per cent above thos 1913, and in 1922, 30 per cent. Representing in each case the volume in 1 as 100, the index for volume of production, imports and exports in 1921 1922 are accordingly as follows:—

						1913	1921	1922
Production	•					100	57	81
Imports						100	62	91
Exports	•	•	•	•	•	100	62	83

These indices, which are admittedly based upon round figures and estim: which in many cases can only be approximately true, indicate that the fal production taken over the whole industry has been rather more than in impo though the exports have fallen no more than the production. As will be s later, however, the fall in the import of sole leather was very substantial, a the general result shown arises entirely from the severe competition experienin dressed leather from abroad (chiefly upper leather) in 1922.

From the figures set out above the consumption of leather is obtained follows :---

					1913 £(000)	1921 £(000)	1922 £(000)
Production .		•	•		17,000	14,500	18,000
Net imports .	•	•		•	6,200	5,800	7,300
Exports .	•	•	•	•	3,500	3,200	5,800
Consumption	•	•	•	•	19,700	17,100	21,500

Thus the pre-War consumption of leather in the United Kingdom was abc \pounds 19,700,000, while the 1922 figure was approximately \pounds 21,500,000. Thatter figure divided by the population gives a consumption per head of abc 10s. at manufacturers' or importers' prices. This is not, of course, the amou spent, on the average per person, on leather since actual purchases are in t form of boots and leather goods on which much more labour has been expende

SUMMARY OF POSITION OF LEATHER MANUFACTURES

The survey of this portion of the subject may be completed by a shc consideration of the corresponding figures for leather manufactures. According to the 'Census of Production of 1907 the value of the materials used in bo manufactures, saddlery and harness manufactures, bag and leather goo manufactures was 60 per cent of the selling value of the output, and this figure probably held also for 1913. For 1921-22 the corresponding figure is probab about 50 per cent. On this basis, the figures for consumption of leather give above, lead to the following figures for the corresponding output of leather manufactures: —

					£
1913	•	•	•	•	33,000,000
1921	•	•	•	•	34,000,000
1922	·	•	•	•	43,000,000

Taking account now of the exports and imports of leather goods leads to the following :---

			1913 £(000)	1921 £(000)	1922 £(000)
Production .			33,000	34,000	43,000
Imports .	•	•	3,000	1,800	2,400
Exports .		•	6,400	3,900	4,200
Consumption	•	•	29,600	31,900	40,800

The consumption per head of leather goods in 1922, therefore (at manufacturers' prices), was about 20s. The imports of manufactured goods came almost entirely from foreign countries, and only £20,000 in 1922 came from the Empire.

To complete this Section the figures for leather manufactures, determined by the Census of Production of 1907, may be given as follows :---

	た	
Boots and shoes (98,000,000 pairs) .	20,100,000	
Leggings and gatters	115,000	
Leather laces	171,000	3
Boot and shoe uppers	215,000	
Leather gloves (about 750,000 dozen pairs)	1,046,000	
Saddlery, harness, etc. (leather)	1,099,000	
Bags and fancy leather goods	1,338,000	
Leather belting	1,194,000	

These items total £25,278,000, or allowing for unspecified leather manufactures, in round figures, £26,000,000, comparing with the estimate of £33,000,000 in 1913. As prices of leather in 1913 were at least 20 per cent higher than in 1907, and there was probably an increase in volume of production, these two results are in fair agreement. In closing this summary statement it should be repeated hat many of the results are based upon estimates. They are, however, probably unfliciently accurate to enable a satisfactory perspective of the magnitude of the ndustry to be obtained.

RAW MATERIAL SUPPLIES

The United Kingdom is an important producer of the hides and sheepkins required for the tanning industry. On the other hand, it produces practically no tanning materials (about 10,000–12,000 tons of oak bark and 800 ons of larch bark per annum of a value of the order of $\pounds 60,000$, see Table B 21) nd no goatskins. Only an infinitesimal proportion of the pigskins which sould be made available for tanning are actually used. The approximate figures of annual production of hides and skins are :—

Cattle hides						2,500,000	
Calfskins .	•	•		•		800,000	
Horse-hides	•	•	•	•	•	200,000	
Sheep and lan	nbskins	•	$\bullet \rightarrow i$	€ ¹ 1.	•	9,000,000	

The total value at 1923 prices is about $\pounds 6,500,000$. The facts regarding the pre-War and post-War supplies of cattle and sheep from which the hides and skins are obtained are shown in detail in Table B 12 for England, Wales and Scotland, and in Table B 13 for Ireland. Compared with the figures for 1913 the latest ones show a decrease of cattle in Great Britain of 2 per cent, and of sheep of nearly 20 per cent.

CATTLE HIDES

The chief general statistical information available on the subject of British cattle hides is that collected during the War, certain summaries of which were first published (by permission of the Army Council) in the *Leather Trades Year Book* 1919–20. A summary of cattle hide statistics collected in 1917 and 1918 is given in Tables B 14 and 15. From these it appears that approximately 70 per cent of the cattle hides are ox and heifer, 23 per cent cow, 3 per cent bull, and 4 per cent casualty hides. On the basis of 2,500,000 cattle hides annually therefore, the approximate number of hides of the various types is :--

Ox and h	eifer	•		•	•	•	1,750,000
Cow	•	•	•	•	•	•	575,000
Bull .	•	•	•	•	•	•	75,000
Casualty	•	•	•	•	•	•	100,000

The same tables show the number of ox and heifer-hides falling within each of the weight classes used in the marketing of these hides, viz. 49 lb. and under, 50-59 lb., 60-69 lb., 70-79 lb., 80-89 lb., and 90 lb. and over respectively. The percentages and approximate numbers in each class are as follows :—

Weight Group.					Percentage.	Number.
49 lb. and und	ler	•		•	9	157,000
50–59 lb.	•	•	•	•	27	473,000
60-69 lb.	•	•	•	•	31	543,000
70-79 lb.	·	•	•	•	22	385,000
80-89 lb.	•	•	•	•	9	157,000
90 lb. and ove	r	•	•	•	2	35,000
m., 1						
Total	•	•	•	•	100	1,750,000

The corresponding particulars for cow-hides are as follows :----

Weight Group.			Percentage,	Number.
49 lb. and under			. 12	69,000
50-59 lb.	•		· 41	236,000
õo lb. and over	•	٠	· 47	270,000
· · · · ·				
Total .	•	•	. 100	575,000

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Bull-hides and casualty hides are not generally classified according to weight.

Generally, ox-hides of over 70 lb. fetch better prices than lighter hides, the difference at the present time (December, 1923) being 20–25 per cent in favour of the heavier hides. Similarly heavy cow-hides are in greater request than light ones, but the corresponding difference at the present time is smaller. These differences, however, do not always hold, and there have been occasions when the reverse position held good. In the early part of 1914, for example, light hides (both ox and cow) were fetching about $\frac{1}{4}$ d. per lb. more than heavy ones. During the War period of control no differentiation of price was made according to weight. English hides are sold also in various classifications according to quality, three grades being generally recognised—firsts, seconds, and thirds. The criteria adopted in determining this classification are referred to later. There is not much information available regarding the proportions falling in each of the categories, but the following statistics relating to hides sold in Glasgow Hide Improvement Society are of interest:—

Date. 1922				First Class. Per cent.	Second Class. Per cent.	Third Class. Per cent.	Branded. Per cent.
August				59.18	38.94	·89	·99
September			•	63.43	34.84	·64	1.09
October		•	•	68.65	30.04	•74	•57
November	•	•	•	65.84	32.57	·98	·61
December	•	•	•	66.53	31.62	1.06	•79
1923.							
January				70.21	26·1	·78	2.91
February				58.76	36.84	3.04	1.36
March				50.48	42 ·88	5.89	·75
April .				47.62	47.04	5.22	.12
May .	•			46.15	49.86	3.72	•27
June .	•			51.14	43.72	2.61	2.23
July .	•		•	51.29	43.29	1.29	3.83
August	•	•	•	62.67	32.55	1.03	3.75

Figures were also collected for January, 1919, for the whole country, and these showed that the proportion of hides classified as firsts was :--

Ox and I	heifer	•	52 p	er cen	t firsts	48 pe	er cent	seconds.	Tim
Cow			50	,,	,,	50	,,	,,	

In spite of the adoption of uniform criteria throughout the country there is considerable variation in the proportion of first-class hides in different markets, and these differences cannot altogether be accounted for by real differences in the hides handled by the markets. In two neighbouring markets, for example, presumably having their hides from similar sources, the percentage of firstclass hides in one for a certain period of 1923 was 70, and in the other for the same period was 40.

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Table B 15 shows the number of hides sold in each month of 1917 and 1918. It is quite possible that these two years do not properly represent the normal variation in the proportion of hides coming forward each month. The only other information on the subject is that contained in the weekly market reports issued by the Board of Agriculture. In these are given each week the number of fat cattle sold in certain selected markets (about 40). This sample represents only about 15 per cent of the total cattle slaughtered, but affords a comparison with the other figures just referred to.

The table below shows, for each of the two sets of data referred to, the excess or deficiency per week in each of the months in comparison with an average week taken over the whole year. Thus 80 for February indicates that the supply of hides in any week in that month is 20 per cent below the average for the year; 134 for November indicates that the supply in any week in that month is 34 per cent in excess of the average for the year.

т.					1917	1918.	Average. 1920–22.
January	·	,	•	•	92	112	122
February		•	•		92	99	80
March	•	•	•	•	92	IOI	82
April	•		•		94	94	80
May	•	•			<u>98</u>	94 86	77
June	•	•			Ś 8	57	65
July	•	•			79	ĞŚ	80
August	•	•			ġŚ	83	98
Septembe	er	•			104	112	115
October	•				113	130	120
Novembe					125	141	134
December		•			120	120	- 34 147
Whole yes	ar				100	100	100
						100	100

During 1917 and 1918 the slaughter of cattle was controlled, and the natural tendencies to large supplies in certain months were curbed by spreading supplies over a larger period. Nevertheless, there is substantial resemblance between the three sets of figures, June and July showing up in each instance as the months of smaller supplies, and October, November, and December as those of largest supplies. The last column probably most nearly represents the normal facts.

There is a substantial amount of seasonal variation in hide prices, this arising for a variety of reasons, e.g. length of hair, condition of hide, and warble season. The extent of this seasonal variation cannot be detected from the examination of the figures for any one year, owing to market fluctuations of supply and demand. An analysis has accordingly been made of the prices during the thirty-five years preceding the War. This embraced a period during which best heavy ox-hides (60-69 lb. or nearest comparable weight) varied in price from $2\frac{3}{2}d$. to $7\frac{3}{2}d$. per lb. The method adopted has been to express for each year the price for each month as a percentage of the average for the whole of the

January		•				93
February						93
March						93
April .			•	•		95
May .				•		100
June .	•		•			105
July .	•	•				108
August			•		•	108
September		•				106
October	•	•	•		•	105
November		•	•		•	102
December	•	•	•	•	•	97

By combining results over such an extended period we remove to a considerable extent, if not entirely, the effect of such factors as the state of trade (e.g. occasionally in the thirty-five years December was the month of highest price, but averaged over the whole period the price in that month stands in relation to those in the other months of the year as indicated by the above figures), and the figures probably represent very fairly the relative values of the hides coming forward each month. It will be noticed that there is a fairly smooth graduation of the figures from 93 in January-March to 108 in July-August. Hide prices can accordingly, on the average, be expected to be at the lowest point in January-March and at the highest in July-August. A comparison of these figures of relative prices month by month with the series of figures given previously indicating the relative supplies for the country in the various months shows that the magnitude of the supply does not appear to affect the price, or rather the operation of the law which determines price according to the relative intensity of supply and demand is hidden by the operation of the more important factor. viz. quality of hide. Thus, when hides are most scarce (May to July) price is only slightly over the average of the year. Similarly from September to November, when hides are plentiful, the price is relatively at a high level. In the warble and bad condition season both supplies and prices are low.

Prices of hides in the three or four years before the War and since have been on a very much higher level than ever previously; the increase up to 1915 was on a very much greater scale than was the increase in prices generally. The hide is a by-product, and a substantial increase in the demand for leather produces very little effect on the supplies of hides available to meet the increased demand. The increase in the use of footwear throughout the world, and other demands for leather in the two decades before the War seem to have caused hide and leather prices to take up permanently a new level, far above that ruling up to the end of the last century. In the table below is shown the average prices of English hides in each year from 1879 to 1913, together with an index number of those prices worked out to be comparable with the well-known Sauerbeck Index Number of Prices in General.

LEATHER, HIDES, AND SKINS

	Year.				Average Price of English Hides. Price per lb.	Index No of Hıde Prices.	Sauerbeck Index No of Prices in General.
	1879		÷		3 ³ 4	72	83 88
	1880				48	72 88	
	1881				48	84	85
	1882				48	/ 84	84
	1883				48	84	82
	1884				41	86	76
	1885				48	84	72
	1886				48	79	69
	1887				4	76	68
	1888				32	72	70
	1889				34	72	72
	1890				25	74	72
	1891				340470100-14	69	72
	1892				31	62	68
	1803				3	57	68
	1894				278 278 38	55	63
2	1895				38	55 64	62
	1896				34	62	61
	1897				$3\frac{1}{2}$	67	62
	1898				34	72	64
	1899				41	81	68
	1900				4§	88	75
	1901		•		48	84	70
	1902	•			41	81	69
	1903	•	•	•	4 <u>8</u>	84	69
	1904	•	•			88	70
	1905	•	•	•	4용 4동	93	72
	1906	٠	•	•	58	107	77 80
	1907	•	•	•	5월	105	80
	1908	•	•	•	4 <u>3</u>	91	73
	1909	•	•	•	54	110	74
`	1910	٠	•	•	61	119	78
	1911	•	•	•	61	119	8o
	1912	·	•	•	6 7	131	85 85
	1913	·	•	•	7훓	141	85
	1920	·	•	•	144	282	251
	1921	·	•	•	Ug	131	155
	1922	·	•	•	8 1	155	132
	1923	·	•	•	818	155	130

The table has been constructed so that the two index numbers were approximately the same in the comparatively stable period (both for hide prices and for prices in general) 1880-83. From 1884 to 1887 hides moved up compared with general prices, remained approximately steady and comparable with prices in general from 1888 to 1890, fell substantially below general prices from 1891 to 1894, while from 1897 onward they went soaring above general prices and at an increased rate until the War broke out. After the fluctuations of 1920 and 1921 they have settled down at a level rather higher than prices in general, having lost most of the large excess which had accrued before the War.

It is of special interest to note how hide prices rose continuously at a much more rapid rate than prices in general from 1894 until the outbreak of the War. The total increase in hide prices was over 155 per cent, while the general level of prices rose only about 35 per cent. An examination of the cattle and hide figures of most of the countries of the world shows that total supplies both of cattle and hides increased but little in the period. During the period in question there was a substantial rise in the standard of living throughout the world, and this was evidenced by the growing demand for leather goods and the increased consumption of boots. Hides being a by-product, supplies respond to increase prices only to a small extent and thus prices rise higher with every increase in demand.

A very large proportion of the 50,000 hides taken from cattle in Great Britain each week are taken off by small slaughtermen. Large abattoirs exist in Birkenhead, London, and in a few other towns, but the development in the use of central abattoirs in this country is extremely slow. This fact has a marked effect upon the quality of the hides supplied to the tanning industry. While the flaving in the abattoirs is done by skilled men whose whole time is given to the job and whose skill produces a hide without cuts, in the case of the butchers the work is done by unskilled men who have many other occupations to perform in the course of the day in addition to the flaving of the animals. As a consequence the flaying of a large proportion of the native hides used by tanners in Great Britain leaves much to be desired. There are probably many hundreds of thousands of hides each year destroyed by unskilled flaving to the extent of 5s. to 10s. each. That this large economic loss could be obviated is shown by the example of Germany. German hides, before the institution of central abattoirs some years ago, had a very poor reputation. Drastic reforms, however, were accomplished in slaughtering organisation and, immediately before the War, the German hides were held in very high repute and were much sought after by tanners in this country whose business required a good heavy hide.

Conferences have been held between representatives of the tanners and of the butchers on this subject of bad flaying, and the latter are becoming alive to the fact that there is an economic loss involved, both to them and to the country, through badly flayed hides and skins, but so far it is not possible to report any marked improvement.

Recently certain hide markets have instituted flaying competitions for the

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butchers from whom they derive their hides, and this idea of flaying competitions will probably develop. Recently, too, there have been various instruments devised for improving the flaying of hides and skins, notably a Swedish flaying knife and the "Perco" flaying machine. The last-named machine has been described as an almost perfect instrument for flaying animals. It requires, however, certain mechanical or electrical power, and is only applicable on a practical scale to large abattoirs. There is no doubt, however, that the adoption of some such instrument as this generally throughout the large abattoirs in the kingdom would improve the flaying of hides and sheepskins to a substantial extent. It is reported that no less than 40 per cent of the hides are taken off in France by this machine, and that these hides obtain 60 francs per 100 kilos in excess of similar hides not so flayed.

Of even greater intensity than the trouble caused by bad flaving is the trouble given to the tanner in this country through the ravages of the warble fly. The actual economic loss caused by the warble fly has been variously estimated from one million to ten million pounds sterling per annum, but is almost certainly nearer the lower figure. In any case, this represents an extremely heavy loss, and prohibits the use of a large number of otherwise suitable hides for the manufacture of bags, upholstery work, belting, etc. In recent years a good deal of attention has been devoted to this scourge. Towards the end of the War the Director of Raw Materials of the War Office, who at that time was responsible for the leather supplies for the Armies, being very much impressed with the large proportion of the leather produced which was unsuitable for many military purposes, set up a committee of representatives of tanners, butchers, farmers, hide markets, together with official representatives of agriculture and research institutions to advise on the subject of research and remedial measures to be taken in order to diminish the evil effects caused by the warble fly. After the War the committee was placed under the ægis of the Minister of Agriculture, and has remained in being ever since. By means of a grant provided by the Development Commissioners research has been undertaken on an extensive scale in Ireland under the auspices of Professor Carpenter, late of the Department of Agriculture, Dublin, and now Curator at the Science Museum, Manchester. Full particulars of the experiments which have been undertaken and of the results which have been obtained are given in the various publications referred to in the bibliography, but special attention may be directed to Professor Carpenter's article in the Leather Trades Year Book in 1922, and to that of Mr. Seymour Jones in the previous number of the same publication. In view of the fact that the elimination of the warble fly in Great Britain would mean an extensive improvement in the supplies of an important national raw material, and the fact that opinion on the subject has been ripened considerably by the work of the past few years, special attention may be directed to this matter.

The trend of research demonstrated that the most efficacious method of dealing with the subject was by means of dressings on the affected part of the animal. As a result of his experiments with various smears and dressings during 1919, Professor Carpenter concluded that the most efficient dressing

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devised up to that date was one composed of tobacco powder and lime wash (4 lb. of tobacco with 1 lb. of lime to 1 gallon of water). The percentage of maggots killed as a proportion of the maggots treated with this dressing reached as high as 90 per cent. Subsequently, in the warble season (spring and early summer) of 1923, Professor Stewart MacDougall, of Edinburgh University, carried on further experiments for the destruction of the warble fly in East Lothian, Scotland, and in these series of experiments nearly 7000 larvæ were squeezed out of infected cattle, and each one carefully examined to see whether the larvæ had been affected by the dressing or not. Scores of farms and many hundreds of animals were examined and reported upon.

The work of Professor Stewart MacDougall enabled a test to be made on a large scale of the efficacy of lime powder and tobacco dressing. The experiments proved to be very satisfactory, a high percentage of larvæ being killed and no ill effects to the cattle, either to health or to the hide, were noticed. Out of the 3,572 warbles dressed 2,916 (82 per cent) were killed.

The experiments in 1923 followed similar experiments which had been made in 1922, and in the 1923 experiments Professor MacDougall was able to ascertain that by far the greater number of cattle showing warbles were cattle which had been imported from various places into East Lothian since the previous dressing, and that these were chiefly Irish cattle, the permanent cattle in the district being very little warbled. Professor MacDougall gives figures from which the following table has been compiled :—

Location of Cattle in Spring and Summer 1922.		umber of Cattle at experiment of 1922	Number free from warble.	Number warbled,	Number of warbles.
Ireland		494	193	301	1,872
East Lothian	•	328	267	61	236
Other areas outside East Lothian	•	89	50	39	402

This table shows a much higher percentage of animals warbled among the cattle which had been imported into the area.

On the subject of the geographical distribution of warbles in Great Britain, at the request of the United Tanners' Federation, the National Farmers' Union has through its members obtained general information on the state of each county in this respect. From this information it would appear that every county is more or less affected, Hereford, Lincs. (Holland), Middlesex, Brecon and Radnor being least affected. The two last counties are of a mountainous character, and it has previously been pointed out that cattle suffer less in hilly districts than in low-lying areas. It is interesting to note in this connection that a hide market receiving hides from the Scilly Isles state that these at no time have shown the slightest trace of warbles. It has been pointed out, too, that cattle sheltered under trees appear to enjoy a considerable degree of immunity from the warble fly. It has further been stated that in part of Brazil, where cattle are made to walk through water and thick mud, they are found to be free of warbles.

The Warble Fly Committee, referred to above, at a meeting early in 1923 considered a resolution which had been passed at a meeting of farmers, butchers, tanners, and leather users, and at which Professor Carpenter had lectured on the warble fly, to the effect that draft proposals for compulsory treatment of cattle against the warble fly should be drawn up, and that the Minister of Agriculture should be asked to introduce legislation on the subject as soon as practicable. The committee felt, however, and their view is shared by those most closely in touch with the development of the research, that the practical difficulties in the way of compulsory treatment have not yet been completely overcome, and that a better course for a further stage in the development of public opinion on the subject would be to arrange for treatment to be carried on in some particular large local area. At the present time, too, the Minister of Agriculture is unwilling to add to the burdens of farmers by instituting further compulsory measures. In Denmark legislative action has been taken, but so far no information as to the result of the action is available.

In the meantime further research is being carried on under the auspices of the Warble Fly Committee, supported by a contribution from tanners. Educational work is being done also at the various agricultural shows, through lectures and films and other means of propaganda.

Another defect to which English hides are occasionally subject is the tick. This was fairly serious in 1922 following the dry summer of 1921. Tick is extremely prevalent in hides from South America and elsewhere, and renders the hide unsuitable for many purposes.

There are about 160 hide markets in Great Britain. Most of those in England are in the Hide Markets' Federation. All of these in England, and a few in Scotland, are in the Hide, Leather and Allied Trades' Improvement Society. This Society was formed with the general object of promoting and protecting the interests of the industry, and of securing a national and equitable system of weighing, classifying, and trimming of hides and skins, and its membership consists of hide markets and tanners using native hides. The Society is financed by means of the tanners paying 1d. on every hide which they purchase. It maintains a staff of inspectors who regularly visit the markets and report upon the classifying and weighing performed by the market representatives. There is considerable scope for personal judgment in determining the correct weight of a hide, and one of the duties of the inspectors is to see that the proper allowance for extraneous matter on the hides is made. It is only when the hide has been through the process of liming and unhairing and is weighed on the rounding table that it is possible to give a verdict of the correctness of the judgment, and there is considerable variation in the " pelt weight " obtained from the different markets. Figures taken at one tan-yard and at approximately the same time indicate a range of variation of more than 10 per cent between the best and the worst markets in respect lof weighing.

The Hide Improvement Society is at present managed by a central committee consisting of representatives of the tanners and of the hide markets. During the early years of the Society representatives of the butchers also were members

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of the central committee. The representatives of the butchers, however, seceded from the Society soon after the close of the War.

There is also a Scottish Hide Improvement Society, and local societies with considerable autonomy but connected with the corresponding national ones in Newcastle, Glasgow, and Edinburgh.

Since the importation of Canadian store cattle has been permitted in Great Britain a further problem has arisen affecting the supply of raw material to the tanner. Practically all cattle in Canada are branded, whether intended for exportation or not. The regulations affecting those imported into this country require that certain further brands should be made. In the case of cattle slaughtered at the big abattoirs on arrival this creates no special difficulty, though there is, of course, economic loss through the branding. In the case of store cattle, however, which subsequently mingle freely with native-born cattle, special difficulties arise. The hides from these animals on a cursory examination are similar to those from the native animals, and it may not be until they are unhaired that the tanner discovers that he has paid English hide prices for a branded hide which, in view of the lack of demand by leather buyers for branded leather, is worth 2d. per lb. less to him. Negotiations are at present on foot between the Tanners' Federation and the Hide Markets' Federation for a solution of the difficulty.

HORSE-HIDES

Apart from the information collected during the War, very little is available concerning supplies of horse-hides. Before and during the first half of the War practically no horse-hides were tanned in this country, but were exported to United States and Germany. The whole supply available was used in this country, however, in the last year or two of the War, but subsequently the trade has gone back into its pre-War channels, and few are now tanned in this country.

The classification of horse-hides differs from that used in the case of cattle hides.

First-class horse-hides contain only hides over 60 lb. (the average of such is probably about 70 lb.) and only the best in quality of hides of these weights are included in this class.

Seconds consist of hides which are of good quality of weight, 50-60 lb., and also hides over 60 lb., of which the quality is not good enough for No. 1.

Thirds consist of hides which are of good quality of weight, 40-50 lb., together with hides of secondary quality of weight, 50-60 lb., and also damaged hides over 60 lb.

Fourths consist of the residue not falling into the above classes. On the experience of a large number of hides during the War, the average proportions falling into each class are :--

				-	Let Cettr
Firsts	•	•	•	•	25
Seconds	•	•	· • .	•	40
Thirds	•		• (•	25
Fourth	۰.		·	· · •	10
	÷,				

Apart from the differences for tanning purposes, a first-class horse-hide in value is comparable with a second-class cow-hide of the same weight, the heavy mane, large amount of meat left on, and long shanks having to be taken into account. They are generally sold by the hide, and not by the lb., and as a rough guide, during the War, the value of a No. 1 horse-hide (which is 60 lb. and over) was taken as equal to a 45-lb. cow-hide.

The figures in Tables B 14 and 15 show, for 1917 and 1918, the number of horse-hides purchased per month by tanners. These figures cannot, however, for various reasons be accepted as indicative of the actual supply of horse-hides month by month, and this information is not available.

CALFSKINS

Tables B 14 and 15 show that calfskins are classified for weight as to 3 per cent 17 lb. and up, 26 per cent 9–16 lb., and 71 per cent under 89 lb. On the basis of approximately 800,000 skins per year, this would indicate the annual supplies as :--

24,000		•	•	17 lb. and up.
208,000		•	•	9–16 lb.
568,000	•	•	•	under 9 lb.

There is substantial seasonal fluctuation in the supply of calfskins, Tables B 14 and 15 showing the following results when expressing the weekly supply in the various months as a percentage of the average weekly supply throughout the year :--

January	•			82
February				75
March	:			107
April .				112
May .			•	124
June .				100
July .				78
August			•	76
September				102
October				128
November		.		118
December		·2.		98

These figures indicate two definite " off " seasons, January-February and July-August. The skins coming forward towards the end of the year are, on the whole, heavier than those in the spring and early summer, the proportion over 9 lb. in September-December being $31\cdot3$ per cent compared with 28 per cent in March-June. The actual weight classes used for the sale of calfskins in many markets is as follows :--

-

25 lb. and up.			8 lb. and under.
17–24 lb. 9–16 lb.	i		Casualty.
A star with the second		· ·	こうまたい シンタネック・ブイン・メート しいう

There is, however, no standard of classification common to all markets as is attempted in the case of hides, and this fact is from time to time the cause of dissatisfaction. Negotiations are in hand at the present time, however, for the adoption of a standard, and a scheme will probably shortly be in operation.

SHEEPSKINS

Though second in importance to cattle hides in point of value, the annual supply of sheep and lambskins in Great Britain is the foundation for an industry of fundamental importance. On the statistical side, the facts regarding pre-War and post-War supplies of sheep and lamb set out above (Table B 12 for England, Scotland, and Wales, and Table B 13 for Ireland) indicate a very distinct falling off in numbers, there having been a decrease of 20 per cent in the sheep in Great Britain since 1912, and this is reflected in the number of skins coming forward. It is computed that the number of sheep and lambskins, which probably approached 11,000,000 in 1913, was only about 9,000,000 in 1923. As shown on page 18 of Section A, this post-War decrease in the supply of sheep is almost universal, the total in the world falling from 584,000,000 pre-War to 500,000,000 post-War, a loss of no less than 13 per cent.

The Census of Production of 1907 gave the number of sheep and lambskins fellmongered in England and Wales and Ireland as 8,928,000 of value £897,000, and in Scotland 903,000 of value £99,000. A census taken during the War, and covering the twelve months July, 1917, to June, 1918, showed the number of raw skins to be 9,700,000, and this figure was considered to be below that for the previous few years.

Table B 16 shows the weekly average for each month of the raw skins purchased by fellmongers in 1917-18. As would be expected, the supply of skins shows considerable seasonal variation. In addition to the evidence provided by the census referred to, information on this point is provided by the weekly report of the Board of Agriculture showing the numbers of fat sheep sold in a number (about forty) of markets weekly. These represent nearly 20 per cent of the total. Representing the average weekly supply throughout the whole twelve months concerned by 100, the corresponding figures for the weekly supply in each month is as follows :—

	Month.					1917-18.	1920-21.
,	January			•1.19		114	109
	February			¥.,		59	64
,	March					Ğź	6i
,	April .					63	71
	May .					54	67
	June .					Ğż	7Ġ
	July .					112	113
	August				• ' ,	134	13Ď
5	September					140	133
	October			13	- - ()	138	. 128
	November	•	, 2 k	1.1	1.	143	122
	December					.110	119

These two sets of results indicate remarkable agreement, and probably therefore very well represent the actual facts of supply of skins.

The census of 1917-18, in addition to information of raw skins purchased by fellmongers, obtained data regarding the fellmongered skins sold, these being separated not only into (a) sheep and (b) lamb, but each of these into grades for quality. These data are set out in Table B 16. It is possible, accordingly, to show approximately the seasonal variations in the supply of sheepskins and lambskins separately, and, on the same basis as before, the figures are as follows:—

				Sheepskins.	Lambskins.
January				132	72
February				125	59
March				79	33
April .				76	31
May .			•	70	29
June .			•	55	51
July .				76	161
August				69	206
September				100	202
October				129	141
November	•			150	121
December	•		•	135	92

These figures are not exactly comparable with the previous ones for the reason that "raw skins purchased by fellmongers" is not exactly comparable with "fellmongered pelts sold," skins occasionally being held up, so that the sequence of "pelts sold" does not exactly follow the sequence of "skins purchased." The figures show, however, the extent to which the "lamb" season is covered by July to November, and the sheep by September to February.

Sheep pelts are generally classified into (1) extras, (2) firsts or primes, (3) seconds or light primes, (4) thirds and below. Lambs similarly are classified into (1) supers, (2) firsts or primes, (3) seconds and below.

There is, however, no standard classification operating throughout fellmongers' yards, though recently the Roller Leather Manufacturers' Association have adopted a classification for lamb pelts for roller leather. This scheme, though giving satisfaction to roller leather tanners, is not entirely suited to the needs of other sheepskin tanners, whose requirements can be better met by other methods. The census referred to gave the following results of the proportion in the different classes for each month. (See table on page 61.)

The sheepskin tanner (unless he happens to be also a fellmonger) buys his material as a "pelt," i.e. the skin with the wool (a commodity of greater value than the pelt) taken off. In the case of hides the tanner himself takes off the hair, which is a by-product of comparatively small value. The tanner of sheepskins is, as a rule, accordingly one stage further removed from the animal than is the tanner of hides, and this fact has probably not been without signifi-

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cance in determining the form of organisation operating in the trade. While the hide tanner, as mentioned above, works in daily connection with the hide markets who are in equally close touch with the butchers, the sheepskin tanner generally comes into touch only with the fellmonger, who buys woolled sheepskins from the market and is concerned, when making his purchase, rather more with the wool than with the skins. In recent months, however, various conferences have been held by which the tanners' representatives have come into direct contact both with the hide market representatives and also with the butchers. These conferences were convened for the purpose of giving consideration to the perennial question of bad flaying of skins. As a result of the conferences it is hoped that the hide markets will institute a special class for badly flayed skins (whatever the other features may be) so that, through receiving a

Sheep.

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Lambs.

Month.	Extras. Per cent	Firsts or primes. Per cent,	Seconds or light primes. Per cent.	Thirds and below. Per cent.	Total Per cent	Supers. Per cent.	Firsts or primes Per cent.	Seconds and below. Per cent.	Total. Per cent.
January February March . April . June . July . August September October November December	 22.7 20.0 20.5 20.5 20.9 17.2 11.0 5.0 12.6 16.9 22.2 19.7	41.0 44.4 45.0 45.7 44.1 27.1 25.5 22.3 24.0 33.4 36.3 39.6	11.3 12.7 12.3 12.1 11.3 10.4 7.6 8.5 8.7 10.8 9.8 11.7	3 · 2 4 · 0 5 · 3 4 · 9 6 · 9 4 · 5 4 · 1 3 · 6 3 · 1	78 · 2 81 · 1 82 · 6 83 · 2 69 · 6 40 · 5 64 · 6 70 · 9 74 · 1	9.8 8.1 6.0 5.4 13.4 22.7 26.2 21.0 14.9 12.3 11.0	9.4 7.7 7.1 6.7 22.6 26.7 24.0 16.3 13.6 11.6	2.6 3.1 4.3 4.7 7.1 6.7 5.2 3.3	21 · 8 18 · 9 17 · 4 16 · 8 31 · 0 51 · 4 59 · 6 50 · 5 35 · 4 29 · 1 25 · 9

lower price for such skins, the flayer may be induced to take greater care and to obtain greater remuneration.

Tanners have also been in consultation from time to time with fellmongers on the subject of damage caused to the skins through faulty fellmongering. A specification for fellmongering has been drawn up and improvements are reported to have followed on the more general application of this.

The grain of British sheepskins is better in the northern than in the southern part of the country. The skins from the latter part are suitable for linings and washable gloves, but for roller leather and other leather requiring good grain, skins from the Midlands, Northern counties, and Scotland are used.

Owing to the efforts made by the Scotch trade over a period of fifty or sixty years to improve the standard of flaying in all classes of hides and skins, woolled skins have shared in the improvement, with the result that Scotch pelts are noted

everywhere for their superior flaying, and this, added to their natural fine grain, makes them a valuable product for the use of leather dressers where superior quality is required.

The larger skins, which are generally of the white-faced sorts, are mostly bred in the south and east of Scotland, whilst the hardy black-faced are mostly reared on the hill-sides of the mountainous north-west of Scotland. Both classes of sheep find their way to leading markets in Scotland, being slaughtered in the different districts according to the demand existing for the various classes of mutton in the respective districts.

As a result of cross-breeding for the purpose of improving meat, however, tanners have noted recently deterioration in the type of skin coming from Scotland. Up to a point improvements for the purpose of meat and wool production are antagonistic to improvements in the skin for the tanner's purpose. Welsh skins have a very high reputation also for roller leather, and reference may be made to the articles by Mr. Seymour Jones on these (see Bibliography).

Sheepskins are at their best from July to December (for roller leather purposes lambs slaughtered from July to September are mainly used). In the early months of the year "cockle" (similar in its manifestations to a rash due to the over-heating of the blood) is prevalent. This very seriously depreciates the quality of the pelt, and no remedy has yet been found. The cockle, as a rule, in this country is at its height in March and April, and dies out by August. Mr. Seymour Jones in his standard book on *The Sheep and its Skin* states that the results of his own experiments "and the accumulation of evidence over a number of years conclusively prove that the prominence or virulency of cockle in certain seasons is in a large measure due to the conditions of food supply." It is impossible to produce soft leather from a cockly skin, which is accordingly useless for glove leather. The other skin deficiency from which tanners suffer, namely scab, is less prevalent now than formerly, as the maggot causing this is amenable to treatment by the shepherds.

Prices of sheep and lambskins averaged about 25s. 6d. per dozen in July, 1914. Prices towards the end of 1923 averaged about 33s. per dozen, an increase of about 30 per cent.

EXPORTS OF NATIVE HIDES AND SKINS

Not much need be said concerning the exports of British hides and skins. Particulars of the exports to individual countries for 1913, 1921, and 1922 are set out in Tables B 80 to 92. The great bulk of these exports go to foreign countries, Germany (partly through Holland), and the United States taking what hides are exported, while the same countries together with Belgium take practically all the sheepskins. Owing to the fact that the statistics of export of pickled skins include imported skins which have been fellmongered here, it is not possible to ascertain how many native skins are actually exported. In Table B 17 a short summary is given of the statistics of exports of all hides, skins, etc., from the United Kingdom, showing destination according to Empire country or foreign country.

IMPORTED HIDES

It was shown at the beginning of this Section that Great Britain was dependent upon imports for 64 per cent in 1913 and 60 per cent in 1920 of her supplies of raw hides, skins, and tanning materials. Hides are imported from more than fifty countries of the world, and the leather industry accordingly probably thoroughly justifies the appellation of "the most international of all trades." There is also a very considerable transhipment trade in hides through British ports. (See Tables B 18 to 20.) In Table B 18 particulars of this transit trade for 1913 and 1922 are given in respect of 31 foreign and 19 Empire countries. This table indicates that, while less than 50 per cent of imports of hides from Empire countries were retained here, the corresponding proportion for foreign hides is 80 per cent. Before the War only a small proportion of the hides coming to this country from Russia and South Africa was retained here. As figures for calfskins are frequently included with those for cattle hides it will be convenient to deal with them here also with cattle hides.

Cattle hides and calfskins are imported into Great Britain in (a) the wetsalted state and (b) dry and dry-salted. Practically no wet-salted calfskins came to this country from the remainder of the Empire, although New Zealand is an exporter. France is the most important supplier, her contribution amounting to 40 per cent of the total; the quality and condition of these skins causes them to be highly sought after. (See Tables B 31 to 38.)

The net imports of wet-salted hides were $\pounds 2,300,000$ in 1913 and $\pounds 1,800,000$ in 1922. (See Tables B 32 and 33.) The countries of origin are shown in Table B 32, from which it will be seen that the proportion coming from the Empire has suffered reduction from 27 per cent in 1913 to 19 per cent in 1922. Australia and South Africa supply substantial quantities, but Argentine is the sheet anchor for tanners of sole leather. Brazil and Uruguay show very substantial increases in 1921 and 1922 over 1913. Italy has fallen away considerably, though maintaining second place in 1922. Italian hides, however, are reported to have deteriorated in comparison with 1913, the flaying not being so good and the method of preservation has been complained of. The hides, being of the heaviest type now procurable, are, however, sought after for heavy sole leather and belting purposes.

The article which is chiefly instrumental in establishing the reputation of the leather industry in international trade is the dry and dry-salted hide. More than forty countries of origin are concerned in this trade. At least one-third of the dry hides are, however, subsequently re-exported. About 60 per cent come from the Empire, the chief country being South Africa, followed by India, Australia, and East Africa. Indian hides, as mentioned in Section C, go chiefly to Germany; the African hides, on the other hand, mainly come to this country. The South American countries are the largest suppliers of dry hides among foreign countries. In 1920 substantial quantities were imported from Russia, the volume amounting to nearly 80 per cent of the pre-War figure. The methods adopted in certain countries for the preservation of dry and dry-salted hides leaves much to be desired, and a specification drawn up by the Tanners' Federation has been given a wide circle of publicity in parts of the Empire with a view to improving the preservation of these hides.

IMPORTED SHEEPSKINS

Sheep (and lamb) skins are imported into Great Britain in two forms : (1) as woolled skins requiring to be fellmongered here (if not re-exported), and (2) as pickled skins, already dewoolled. In 1922 the number of skins of the former class imported was nearly 15,000,000, of value nearly £3,000,000 (see Table B 39), and 60 per cent were retained in this country. More than 75 per cent of these skins came from the Empire, South Africa supplying 6,000,000 and Australia 3,500,000. The countries round Aden are also important suppliers of woolled skins, as also is New Zealand. The only foreign country sending quantities comparable with those from the Empire countries mentioned in 1922 was Russia with 1,100,000 skins. Spain, Chile, and Argentine are also important suppliers.

Only a small proportion (11 per cent in 1913) of the pickled pelts imported are retained here; 80 per cent come from the Empire, and these practically all from New Zealand. Tables B 39 and 40, together with Tables B 91 and 92 and the information previously given for the supply of native skins, enable an estimate to be formed of the total number of sheep and lambskins consumed in Great Britain, as follows:—

	1913	1921 (Thousands).	1922
Native supply (estimated) .	10,000	9,500	9,000
Net import of woolled skins	8,000	2,500	8,600 (Tables B 39 and 41)
,, ,, of pickled ,,	800	1,600	500(,, B40 and 42)
Less exports woolled skins	100	200	300 (Table B 91)
,, ,, pickled ,, .	8,500	1,300	4,400 (,, B 92)
Total consumed .	10,200	12,100	13,400

These figures would appear to indicate a substantial increase in consumption of sheepskins in this country. In Table B 20 a summary is given of the transhipment trade in sheep and lambskins. This shows that of Empire skins imported less than one-half are retained here in the form imported ; the corresponding percentage for foreign skins was 43 in 1913 and 62 in 1922.

GOATSKINS

Particulars of goatskins imported and re-exported are given in Tables B 43 and 45. There is a substantial transit trade in this commodity, about onethird of the imports being retained here; the summary table (B 19) shows the separate percentages for skins from Empire and foreign countries respectively. These imports totalled 12,000,000 skins in 1913 and 8,700,000 in 1922. No less than 90 per cent, however, came from the Empire, India being far away

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ahead of any other country as a supplier of skins, with South Africa a good second, Nigeria and the Aden Dependencies following in order. The figures of imports in 1913 and 1922 were as follows :---

			1913.	1922.	
			(Thousand	s of Skins).	
Imports			12,100	8,700 (Table B 43)	
Re-exports			8,500	6,000 (,, B 45)	
Consumed		• •	3,600	2,700	

In 1922 there were still available in this country large quantities of goatskins originally imported in the boom of 1919 and 1920, and the figure shown for 1922 is certainly an understatement of the number of skins actually used, even in a year of acute depression.

VEGETABLE TANNING MATERIALS

Tables B 48 to 57 give particulars of the imports of tanning materials. Considerably more information is available for 1921 and 1922 than for 1913, particularly with regard to tanning extracts. The home supply of tanning materials is extremely small, consisting of oak bark and spruce bark, and amounting to not more than $f_{0,000}$ to $f_{70,000}$ per year. Of the crude tanning materials, the chief bark imported is wattle or mimosa bark from Natal (and recently also from East Africa), this constituting nearly 90 per cent of the imports of bark. This bark has grown considerably in favour among anners in Great Britain. Before the War most of that imported was re-exported o Germany, but a comparison of pre-War figures with those for 1922 shows he development which has taken place.

			1913 (Cwt.)	1922 (Cwt)		
Imports			892,000	686,000	(Table	B 48)
Re-exports	•		678,000	115,000	"	,,
Retained	•	•	214,000	571,000		

The amount retained in the United Kingdom increased from nearly 11,000 ons to nearly 29,000 tons.

The position regarding the imports of other crude vegetable tanning naterials may be summarised as follows :---

			913. ports.		22. oorts	
		Retained Cwt.	Per cent. from Empire.	Retained Cwt.	Per cent from Empire	
Sumach . Gambier " .	·	146,000 93,000	- 0 * 80	103,000 79,000	0 80	(Table B 49) (,, B 50)
Myrobalans . Valonia .	•	543,000	100	490,000	100	(" B 51)
Other materials	:	342,000 25,000	25	, 106,000 34,000	0 23	(,, B 52) (,, B 53)

'alonia comes entirely from Smyrna and Asiatic Turkey, and the large falling vol. vi.-5

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off in the imports is easily accounted for. The only other feature worthy of remark in connection with the statistics of the other commodities is the high price of gambier. Whereas most of the other crude tanning materials had fallen in 1922 almost to the pre-War level, the price of gambier remained very high, the import value in 1913 being 26s. per cwt. and the price quoted in 1923, 50s. per cwt. Serious complaints, too, have been made by tanners regarding the quality of post-War gambier.

Before the War the various tanning extracts were not separately specified in the official import statistics, and values only were stated. Since 1921, however, much more information has been publicly provided. Not only have the quantities imported been stated, but oak, chestnut, and quebracho extracts have been separately detailed. Particulars of oak extract are given in Table B 54. None of this is imported from the rest of the Empire, while more than half of it comes from Italy. The statistics of chestnut extract are set out in Table B 55. The whole of this is imported from foreign countries, in 1921 and 1922 France being responsible for three-quarters of it, and Italy for the bulk of the remainder. The imports from France are only about one-half of those of pre-War days. During the War substantial quantities of chestnut extract were imported from the United States, but this material was unpopular with tanners here, and in the past few years very little has been received. Table B 56 gives the quebracho figures, which include a small proportion from other foreign countries in addition to the bulk from Argentine, and the figures in Table B 21 indicate the extent to which the comparatively new wattle extract has found favour in this country in comparison with quebracho extract.

The quebracho forests of South America, though extensive, are limited. The time of growth is enormous, and the trees are not replanted to replace those which are cut down. While quebracho extract is an astringent wood extract, wattle extract is a pure bark extract, with which it is possible to tan completely and not only in conjunction with other materials. It comes from a tree which reaches maturity in six to eight years and can be readily regrown as soon as it is cut down. There seems little doubt that the use of wattle bark and wattle extract in Great Britain will steadily increase as the use of quebracho diminishes.

In Table B 57 are given the figures of imports of all other tanning extracts other than oak, chestnut, and quebracho. As the country of origin is given, there is a substantial amount of evidence available of the varicities of the various extracts. That from Natal, for example, is entirely wattle extract, from Turkey and Smyrna valonia extract, and from India mainly myrobalan extract. Over 80 per cent of these other extracts are from Empire countries, but an appreciable proportion (amounting to about 25 per cent by value in 1922) is re-exported. Neither weight nor value is entirely satisfactory as a measure of tanning materials for statistical purposes, as these materials vary considerably in tanning content. For the purpose of making an adequate comparison of tanning materials used in the pre-War and post-War period, accordingly, it is useful to express the imports, etc., in terms of tannin units. From the information available concerning imports, exports, and production, Table B 21 has been compiled to afford a comparison of the consumption of the various

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tanning materials in 1922 and 1913. The quantities for 1913 had to be computed from the known values of the imports and re-exports. This table shows that the consumption in tanning units in 1913 was 44,000 tons, and in 1922, 42,500; and that of the former 40 per cent came from the Empire, while in 1922 the figure was 57 per cent. The chief features brought out by the table are the large increase in wattle bark and wattle extract (the latter was not manufactured in 1913) from the Empire, and the falling off in chestnut extract and valonia from foreign countries. Expressed in terms of tanning units, wattle is easily first in importance now for British tanners, though in 1913 it was far down on the list. The order of importance by unit of tan of the seven chief materials is as follows :—

						1922. Units of Tan.	Position in 1913.	
	Wattle (bar		extra	ct)		12,570	5	
2.	Myrobalans				•	8,670	2	
	Chestnut				•	7,030	I	
	Quebracho	•	•		•	6,740	4	14-1 CAN
	Valonia	•	•	•	•	1,940	3	- R
	Sumach		•	•	•	1,440	6	
$7 \cdot$	Gambier	•	•	•	•	1,420	7	

During the War rather more than one-third of the vegetable tanning materials imported were used in the half-dozen tanning extract factories in this country, the remainder going direct to tanners. At that time the extract factories were producing twenty-eight different brands of extract, most of which were used by tanners, though a proportion was consumed for dyeing purposes.

Some of the materials used to the greatest extent (e.g. wattle bark, myrobalans, and quebracho) were standing at about the same price at the end of 1923 as before the War. Others, notably gambier and sumach, showed a marked increase in price, but the consumption did not fall off to the extent which might have been expected.

The approximate pre-War prices in comparison with those holding towards the end of 1923 are as follows :---

<i>,</i> , ,					Æ	lvera	ge			
						911-			1923	
					I	Per to		, I	er to	
					£	8.	d.	£	s.	d.
Chopped wattle ba	rk		•		8	о	о	8	5	0
Sumach .		•			10	10	0	19	10	0
Myrobalans .	•	•	•	•	7	5	ο	6	17	6
Gambier (black)	•				24	ō	о	47	10	0
,, (cube)					4İ	0	0	77	10	0
American chestnut	extra	ıct			io	0	0			
French "	,,				12	0	0	18	0	0
Hemlock extract					14	0	0	18	0	ο,
Quebracho (soluble	.)				18	10	0	18	5	Ο,
Valonia .					II	0	0	11	10	0
Wattle extract				14	1	·		20	Ò,	Ó.
		,	, '	1	1					

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CHEMICALS

Very little information is available regarding the consumption of chemicals by tanners and curriers. It has been estimated that the present rate of consumption of synthetic tannins is about 3000 tons per annum, and particulars of the consumption of chrome materials and chemicals in the War year 1917 are given in Table B 124. In the aggregate these figures are probably 20-30 per cent in excess of the present rate of consumption, while the corresponding difference in individual items may be very much more.

LEATHER INDUSTRY

The last few paragraphs have set out the position regarding the supply of hides, skins, tanning, and other materials for the industry. We now go on to give particulars of the industry itself. The bridge from the one part of the subject to the other can conveniently be made by means of Tables B 22 and 23, which set out, by quantity and by value, the imports in 1913 and 1922 of the various materials according to port of arrival. This information is of interest not only with reference to the circumstances attending importation, but also throws certain light on the geographical distribution of the industry itself. It is clear from Tables B 22 and 23 that not only is Liverpool the most important port of importation for hides and tanning materials, but that also the extent of that importance increased between 1913 and 1922. In the former year 40 per cent of the hides and 46 per cent of tanning extracts were imported via Liverpool; in 1922 the corresponding proportions were 60 per cent and 74 per cent respectively. London is the second port for hides, a long way behind Liverpool. London is easily first, however, for sheepskins and goatskins, but, as previously pointed out, there is a considerable transhipment trade in these commodities. Tables B 22 and 23 indicate five of the chief centres of the leather producing industry, viz. Liverpool, London, Bristol, Hull, and Glasgow. Other centres are Leeds and the Walsall area. while a substantial number of tanners are distributed throughout the country, Lancashire being the most prominent county for sheepskins, on account of the manufacture of roller skins for cotton spinning.

The important operation of currying of leather is carried on chiefly in London, Walsall, Northamptonshire, and Leeds and district, but also in many other places. Leather for gloves is manufactured in the West of England and other districts.

The total number of employees engaged in tanning and leather dressing according to the Census of Production in 1907 was 29,000. (See Table B 10.) The census of 1911 gives the following table for England and Wales of the numbers engaged in the hide, leather, and allied trades :--

	Occupation. Furriers and skinner Tanners Curriers	s.	No of E Males. 751 338 613	Employers. Females. 64 3 11	No of Employe Males. Femal 7,535 5,481 10,202 34 14,485 1,049	t 240 4 29	wn Account. Females. 128 5	, '
년 구 1 년		· · · · ·	2 3	×			11111111111111111111111111111111111111	, , , , , , , , , , , , , , , , , , , ,

GREAT BRITAIN AND IRELAND

Occupation	No. of Males.		ers ales.	No. o Males		mployees. Females.	No. on ov Males,	rn Account. Females
eather goods, port- manteaux, bag and				,		2		
strap, etc., makers .	710	45	;			7,482	310	59
addlers: harness, whip a	2,909	150	•	15,024	4	3,287	2,978	40
makers								
kins, leather, hair, and								
feathers-dealers in .	7.407	82	2	4,84	5	1,119	932	95
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			т,-т.	,	-,9	95-	95
he figures for Scotland a	re not ;	given	in th	e same	e fo	orm, but	are as fol	lows :—
Occupation						Males.	Females.	Total.
irriers and skinners .						770	263	1,033
anners						987	ıð	1,003
ırriers						619		619
eather goods makers	•					1,048	240	1,288
ddlers : harness, whip n	nakers					1,666	93	1,759
ealers in skins, leather, e	tc.					309	55	364
ommercial travellers						132		132
,, or business cle	erks					186	134	320
hers						364	142	506

Nearly 40 per cent were in Glasgow and surrounding county, 15 per cent Edinburgh and surrounding county, and 9 per cent in Renfrewshire. The 21 figures are not yet available.

In comparing these last tables with the figures for 1907 it is necessary to nember that they are compiled on a different basis. At the census of pulation the individual is returned according to his own statement, and n might be returned as "General Labourers" who are in fact employed a tan-yard. It is probable that the census of population understates the mber of employees in the leather industry, and in this connection it may pointed out that the estimated number of insured persons engaged in tanning, rying and leather dressing in July, 1923, determined under the Unemploynt Insurance Act was 41,820, of whom 33,230 were males. The census of 11 showed the greatest number of tanners in Lancashire, followed by the st and East Riding of Yorkshire and afterwards by London, Cheshire, and pucestershire.

The greatest number of curriers was returned in the West Riding of Yorkre, followed by London, Northamptonshire, Staffordshire, and Lancashire. er 40 per cent of the leather goods manufacturers were returned in London, ng followed by Lancashire, West Riding, Staffordshire, and Warwickshire. arly two-thirds of the furriers and skinners were in London and Essex, icashire being the only other county with a substantial number of operatives. e position was similar with regard to dealers in skins, leather, and feathers. Numerically, as an employer of labour, the leather industry stands comatively low, the bulk of the capital employed being disposed of in the chase of raw materials.

The number of tanners in Great Britain is nearly 400; of these 100 tan sole leather, two-thirds of whom probably tan nothing else; 140 tan rough leather to be passed on for currying for various purposes, and of these 60 per cent do nothing else. There are about 25 tanners of chrome upper leather, of whom about 10 are tanners of glack kid. Approximately fifty firms are tanners of strap butts for belting, but only a small number of these restrict themselves to this work, a large number of them tanning also rough leather and sole leather. Nearly 30 firms are engaged in the manufacture of leather for textile purposes, only a few of these doing work other than the production of textile leathers. About 100 are tanners of sheepskins, and of these about 85 do nothing but sheepskins.

EMPLOYEES' AND EMPLOYERS' ORGANISATIONS

Reference may be made here to the general conditions of employment in the leather industry and to the various industrial organisations through which changes in these conditions are negotiated.

The employees in the leather industry in the United Kingdom are divided into two sets of Unions, the "Craft" Unions and the "Non-Craft" Unions. The "Craft" Unions, except those concerned with men engaged on patent leather, enamelling, and graining, are federated together in the National Leather Trades' Federation, while the "Non-Craft" Unions are all members of the National Federation of General Workers. For a long time there was considerable antagonism between the two sets of Unions. In recent years, however, fairly close co-operation has grown up between them, and the employers' representatives in the last two years have met the two sections of the Unions together at the same table.

On the employers' side, labour matters are managed through the Leather Producers' Association for England, Scotland, and Wales. This Association is an affiliation of a number of local associations formed for the purpose of dealing with labour matters.

The first agreement come to between the two negotiating bodies referred to, related to the general adoption of the 48-hour week. This was in 1919. There is no fixed rule as to the method by which the 48 hours is worked, and there is a good deal of diversity in practice. A few firms complete the whole of the 48 hours in five days, but the majority work on Saturday.

The whole of the wages adjustments which have been necessitated since the close of the War have been carried through by negotiations between the Leather Producers' Association on the one hand, and the representatives of the two Union Federations on the other. At times, as in many other industries, some very difficult problems have had to be faced, but these have always been met in a harmonious spirit, and in the whole of the period no serious labour difficulties have arisen in the industry. Perhaps the biggest piece of work accomplished through these joint negotiations was that of the drawing up of a complete classification of operations according to grade of skill involved in tanning and currying. On the basis of this classification the various basic rates of wages have been determined. The basic rate system was first initiated in

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March, 1920, and the actual rates, which vary according to district, have been modified on various occasions. The "basis" rates are actual "time" rates paid according to grade skill. More than 75 per cent of the wage earners in the industry, however, are paid by "piece," and it is part of the agreement that piece-work rates shall be such as to enable an able-bodied average man to earn at least 25 per cent in excess of the corresponding day-work earnings for a full working week.

Owing to the extreme complication of the industry no attempt has been made to draw up a general piece prices bill. There is comparatively little standardisation of machinery or method either in the tanning or currying side of the industry, and a fixed "rate" would result in men of equal skill and ability making quite different earnings at the end of the week. The fundamental theory underlying the arrangement is that a man working on the same operations in two different works with the same speed and skill should be in a position to earn the same amount at the end of the week in each case, even though one works may possess extra conveniences in some respects than the other. In one end of the industry, however, viz. currying for harness, saddlery, bag work, etc., it was possible, after a task of very considerable magnitude, to draw up a piece prices list, known as the "Green Book of Prices."

Other conditions affecting labour in the leather industry were determined by an Award (No 437) of the Court of Arbitration early in 1919 (before the negotiating functions of the employers' and employees' organisations were fully functioning). This Award has subsequently been modified in various respects by negotiation between the Unions and the Leather Producers' Association, and is now principally of importance as governing the conditions under which overtime is worked.

In connection with labour conditions the subject of anthrax should be referred to. Anthrax is a scheduled industrial disease, and action is taken on the first signs appearing in anybody connected with the industry. Serious cases of anthrax among men handling hides at the docks are not uncommon. Cases in tan-yards are less frequent, probably on account of the greater precautions taken. The facilities available in the tanning district of Bermondsey are so complete that no special anxiety is now felt at reports of anthrax occurring there. This is very largely due to the skill shown by the staff of Guy's Hospital, who have specially studied the disease, and nearly all the men who have contracted the disease in Bermondsey in the past few years have completely recovered in a short while. Recently, too, similar special arrangements have been made in another tanning centre, at Warrington. The activities of the International Labour Office in the last few years on the subject of anthrax (but mainly in connection with the handling of wool, hair, and bristles) have brought a good deal of public attention to this matter. At the Third International Labour Conference a Committee of Investigation into Anthrax was appointed.

This Committee met in London in December, 1922, under the chairmanship of Sir Wm. Middlebrook and issued a report early in 1923. The greater part of this report is devoted to the risks arising from anthrax in the handling of wool, hair, and bristles and the means of lessening the danger of anthrax from

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animals. The resolution adopted by the Committee with regard to hides and skins may, however, be quoted in full :---

"The Committee is of opinion that in most countries the principal danger of industrial anthrax arises in the manipulation of hides and skins, and recognises the impossibility of securing at the present time complete disinfection to protect against this danger.

"The Committee therefore recommends that Regulations be laid down in the different countries having for their object the protection of the workers and the soil against infection by anthrax from hides and skins.

"The Committee further suggests that the International Labour Office, in conjunction with the Health Committee of the League of Nations, should organise international research and invite nations and organisations chiefly interested to undertake such research in their respective countries.

"The Committee considers that in view of the fact that all countries using infected materials will benefit by the discovery of a satisfactory process of disinfection it is desirable that the Governing Body should take into consideration the possibility of finding grants in aid of research undertaken for that purpose."

The expression of opinion in the first paragraph of the resolution declaring hides and skins the chief source of danger has created considerable surprise. It is pointed out that in most cases of anthrax arising from the handling of hides and skins the infection is local, being generally due to the entry of anthrax spores through a crack or cut in the skin. In this form the disease is easily dealt with if it is taken in its early stages. The principal requirements are immediate diagnosis and prompt treatment. In the case of anthrax among wool sorters and similar classes of workpeople, however, the infection is more commonly due to the spores being inhaled along with dust into the lungs. This form of the disease is much more difficult of treatment and the chances of recovery much slighter.

An important report on the subject of infection of anthrax from hides and the means of disinfection by Dr. H. Leymann has been published by the International Labour Office and is referred to in the Bibliography.

OFFENSIVE TRADES

Section 112 of the Public Health Act of 1875 specifies among other trades "fellmonger" and "any other noxious or offensive trade, business, or manufacture" as "offensive trades," and Section 113 of the Act gives power to any urban authority from time to time to make by-laws with respect to any offensive trades "established with their consent either before or after the passing of the Act, in order to prevent or diminish the noxious or injurious effects thereof." By subsequent development of legislation in 1907, the local authority may declare by order, confirmed by the Local Government Board (Ministry of Health) and published in such manner as the Board may direct, any other trade, business, or manufacture to be an offensive trade. The question as to whether

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any trade other than those expressly mentioned in the Act are offensive trades is one which is often found to require careful consideration, and the Local Government Board (Ministry of Health) consider that there is *a priori* reason for assuming that the trades of leather dressing, tanning, glue making, and size making should be considered as offensive trades. They have accordingly drawn up a series of model by-laws to be of help to local authorities in those cases where the local authority considers that there is a case for scheduling a factory carrying on one of these trades within its area. In the well-established tanning centres throughout the country no difficulties under this Act have arisen, but from time to time in the smaller areas, where there is probably only one such factory, applications have been made by the local authorities for an order. It has been found by experience, however, that the Ministry of Health scrutinises extremely closely such applications, and does not take action which may hinder the development of industry if properly carried on.

DISPOSAL OF EFFLUENT

In recent years the subject of the disposal of tannery effluent has in a number of instances caused considerable difficulty. The law on the subject was made clearer by certain clauses in the Salmon and Fresh-water Fisheries Act which was passed in the 1923 Session of Parliament. As the Bill was originally drafted only persons and firms who had legal right to discharge effluent into streams were safeguarded, that right being obtained by ownership or by prescription, the latter only being possible in those cases where the same process had been in operation for twenty years prior to the passing of the River Pollution Act of 1876. The manufacturers generally felt that some protection should be given to industries which, constrained through force of circumstances to discharge effluents into streams, took all possible means to render effluents harmless. Accordingly an amendment was introduced which ensured that "A person shall not be liable to any penalty for any act done in the exercise of any right to which he is by law entitled or in continuation of a method in use in connection with the same premises prior to the passing of the Act." This safeguards the position of existing factories which continue to use the same methods. The question of the use of the term "method " has given rise to some discussion, and it has been ascertained, for example, that the change from a vegetable tanning process to a chrome process of the tanning method. would not be construed as a change of method for the purposes of this Act in spite of the fact that the effluent from chrome tanning would be more deleterious to fisheries than the effluent from vegetable tanning.

RAILWAY RATES AND CLASSIFICATION OF GOODS

The subject of railway rates is one of very considerable importance, particularly to the tanning end of the leather industry. Over 75 per cent of the capital of a tanner is spent on raw materials. Although, owing to the proximity of many tanneries to a port, the railway haul in these cases is not great, in

many other cases a railway rate of from 30s. to $\pounds 3$ per ton has to be paid on hides and materials averaging probably not more than $\pounds 60$ per ton. In other words, railway charges on raw materials may run up to 5 per cent on the very large capital expended on materials. The great bulk of the leather produced has to be carried by rail at a rate exceeding on the average $\pounds 2$ per ton on a value averaging, probably, about $\pounds 150$ per ton. Taking raw materials and leather together, the industry probably bears, throughout all its phases, a railway burden exceeding on a low estimate $\pounds 250,000$ per year. Accordinglyconsiderable attention has been given to safeguarding the interests of the tanning industry in the reorganisation of the railways since the War. Under the Railway Act of 1921 all goods carried on the railways are classified under one or other of twenty-one headings. There is a standard rate for each class, but the bulk of the goods carried for the leather industry are carried at exceptional rates. Owing probably to its antiquity the leather industry has obtained a large number of exceptional rates.

STANDARD CONTRACT

Previous to 1919 there was no standardised form of contract for the purchase of raw material in any section of the leather industry, and there is not yet any formal general arrangements for arbitration in case of disputes, though arbitration, occasionally of an unsatisfactory nature, is frequently resorted to. In the year mentioned, however, the Glacé Kid Tanners' Association agreed with the merchants and importers concerned on a form of contract regulating the importation of goatskins, and this has been used since and has given general satisfaction to all parties. A further form of contract applicable to all hides and skins has been the subject of informal negotiations between tanners and hide merchants and tanners are anxious for the general adoption of a standard form of contract and look forward also to the development of an arbitration panel, 'with formal rules, under the auspices of the Federations concerned, from which panel arbitrators may be selected by the parties interested in case points of disagreement arise requiring decision under the standard contract.

MEASUREMENT OF LEATHER SOLD BY SUPERFICIAL AREA

The selling of leather by superficial area is a matter not free from difficulty. Not only does the leather itself expand and contract according to atmospheric conditions, but no means have yet been contrived to obtain the exact measurement of a piece of leather in the same way, for example, as it is possible to give the exact weight of a commodity sold by weight. A number of machines are available for the measuring of the area of leather, but not even the best of these can guarantee exact measurement.

In 1919 the Government passed an Act termed the "Weights and Measures (Leather Measurement) Act, 1919." This Act required that if any person or firm had a machine for measuring leather, and that particular type of machine were approved by the Standards Department of the Board of Trade, then the

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machine had to be stamped and was subject to inspection. The Act did nothing to meet the contention of many manufacturers that the person operating the machine is a more important factor in ensuring correct measurement than the machine itself. Owing to the deficiencies which became apparent through the operation of the Act, in 1922 a further Bill was drafted entitled "A Bill to extend the powers of the Board of Trade to make regulations with respect to Measuring Instruments used for Trade." This Bill was not designed to deal specifically with leather, but would apply to all measuring machines whatever the material on which they operated. In effect the Bill would extend the power of the Board of Trade under the Weights and Measures Act of 1904 to enable it (the Board) to make regulations " to apply to any such measuring instruments used for trade as are specified in the Regulations, any of the provisions, including penal provisions, of the Weights and Measures Act, 1878-1904, with respect to weights, measures, and weighing instruments." This Bill, however, has not been proceeded with.

In many sections of the trade complaints of bad measurement are extremely rare; in other sections, however, complaints are more frequent and particularly with regard to imported leather. The various Federations concerned are extremely anxious to afford every safeguard to the buyer of leather that he is obtaining the measurement which he pays for, and schemes are under consideration by which this can be afforded. The Federations concerned have discussed the question of margin of errors which should be permissible in the measuring of the various types of leather, and proposals have been made for the formation of a panel of measuring machines which could be used in cases of dispute as arbitrators between buyer and seller.

Recently the following "margins of errors" have been agreed by the various Federations concerned :---

							P	er cent.		
	otor, coach, ba		d cas	e hid	es.	•		IJ		
U	oper leather—									
	Kip, calf, pate				thers	•		2		
	Chrome, box,	side,	and o	alf				2		
	Glacé kid	•						21		
	Bellies .							3		
Li	ght leathers—							•		
	Soft suède and	l velv	et lea	thers				3	•	ډ .
	Goat and othe	r firm	-finis	shed i	fancy le	eather	s.	2		
	Skins, firm fin							тł		

OUTPUT OF LEATHER

Statistics of the output of leather in Great Britain are extremely meagre. Table B 9 gives the particulars provided by the Report of the Census of Production in 1907, but it will be noticed that these are in the most general terms, and do not provide, for example, information of the production of sole leather or upper leather. Records of War production are available but no post-War

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records can be given. Using the data obtained during the War as a means of drawing inferences from such information as is available for other periods, some approximate estimates may, however, be made.

In the first place, returns of leather produced, other than sheepskin leather, gave the following figures for the production of tanned leather in 1917 and 1918 :----

		1917. Tons.	1918. Tons
Vegetable tanned sole leather .		38,500	36,800
Other vegetable-tanned "	•	65,800	66,800
Chrome-tanned sole ", .	•	1,100	1,900
,, upper and other leathe	r.	12,000	13,100
Total		117,400	118,600

In 1917 also particulars of the quantity of leather produced from each type of hide were worked out as follows :--

						Weight of Hide. Tons.	Weight of Leather produced. Tons.
Ox and heifer						51,670	34,100
Cow					•	16,450	10,850
Bull	•			-		2,700	1,780
Calf and kip	•	•	•	•		14,020	4,690
Horse	•	•		-		1,890	1,260
Wet-salted hides					•	30,690	27,620
Dry and dry-salt	nides	•	•	•	25,720	34,960	
						143,140	115,250

As the former figures include those of some leathers, e.g. chrome goatskins, not included in the latter, the agreement between the two sets of figures is satisfactory. The same method may be applied to indicate approximately the corresponding production in 1913, 1921, and 1922.

The particulars of the hides are approximately as follows :---

			1913. Tons	1921. Tons.	1922. Tons.
Native hides .			74,000	79,000	78,000
 Wet-salted hides .		•	29,000	24,000	26,000
Dry and dry-salted l	udes	•	18,000	5,000	17,000

and the corresponding figures for the production of leather are :---

From native hides	s. Tons. 00 52,700 00 21,600	1922. Tons 52,000 23,400 23,100
Total 100,00		98,500

The results for 1921 and 1922 are hardly likely to be such reliable measures of

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the actual production in those years as are the figures for 1913 and the War years, since the imports of hides in the post-War years were probably not such reliable measures of the actual input of hides by the tanner. In reaching the above conclusions the following factors have been used for the conversion of weight of hide into weight of leather, these being based upon *averages* obtained in the War period.

Native hides					Per cent. 66
Native calfskins	•				33
Wet-salted hides	·	· ·	•	•	90
Dry and dry-salted	1 hi	des	•	•	136

The production in 1922 was almost up to the pre-War level, but each were about 15 per cent below the level reached in 1917.

Turning now to particular classes of leather, the production of sole bends, rolled and rough shoulders and rolled and rough bellies in the War period 1917-18 was at the rate of

Bends			•		750 tons	per	week
Shoulders	•	•	•	٠	250 "	,,	,,
Bellies .	•	•	•	•	430 ,,	,,	"

Of the 250 tons of shoulders, approximately 70 tons were obtained from hides not used for sole leather, and of the 430 tons of bellies, 130 tons were from similar hides.

It is not possible to separate rough offal from pinned. Of the bends, approximately 40,000 were from native hides, leaving 30,000 hides weekly for the production of heavy rough leather of the nature of strap butts, dressing hides, harness butts, etc. Practically the whole of the imported wet-salted hides are used for sole leather, and probably at least 80 per cent of the imported dry and dry-salted hides (the bulk of the remainder going for upper leather). It is more difficult to estimate the number of native hides used for sole leather in 1921 and 1922. The number used for strap butts and for a number of purposes mainly of military utility other than sole leather was certainly less than in the War period referred to. On the other hand, the use of these hides for motor-car work (involving probably 7000 hides per week), and for trunks, bags, etc., probably counterbalanced this, and possibly the error is not very large in assuming the supply of native hides for sole leather in 1921 and 1922 was not far different from the number in the War period referred to. On these assumptions, and making some allowances for the changed circumstances of the industry, we get the following figures of the output of leather from hides tanned for sole leather :---

								War Period. Tons.	1921. Tons.	1922. Tons.
Sole	leather						•	12,000	12,000	12,000
,,	,,			-salted			÷	27,000	21,000	23,000
,,	,,	"	dry	and d	ry-salt	ed hid	les	27,200	5,500	18,500
	Total							66,200	38,500	53,500

No figures for 1913 are given since there is nothing on which to base an estimate of the number of native hides used for sole leather. It is not possible to state how much of the leather produced was rough offal, except for the War period.

It must be emphasised that these estimates are of necessity approximate, but in the absence of more exact information can be taken as roughly representing the truth. It is of interest to note that the production in the United States in 1921 (a year of depression) according to the Census Act of 1920 was 18,063,000 sides (as against 19,716,000 in 1919).

For the purpose of completing the view, as far as possible, of the sole leather industry in Great Britain, reference may be made to the article on Sole Leather Production in the *Leather Trades Year Book* of 1919–20. In that article details were given of the magnitude of the output of heads by tanners of sole leather. From these details relating to 1917, the following summary has been obtained to indicate the size of sole leather tanneries :—

Output of Bends per week.						No. of `anners.
Under 75				•		21
75-500				•	•	26
500-1500	•	•	•			21
1 500 –2500	•		•	•		22
2500-5000		•	•		•	15
5000-7500		•	•	•	•	I
Over 7500	·	•	•	•	•	2

Table B 24 gives full details of the output of sole leather for one year (1917) and will be useful in showing the output falling under the various weight categories. In the article referred to, the pre-War output was estimated at 53,000 tons, compared with 66,600 tons in 1917, and the following table was given to indicate approximately the position of various countries as producers and consumers of leather :--

	*			Production.	Net Imports or Exports.	Consumption.
	Country.		Year.	Tons.	Tons.	Tons.
	Germany .	•	1910	70,700	E. 4,300	66,400
	United States	•	1909	140,000	E. 14,300	125,700
М	Australia ¹	•	1914	17,200	E. 2,700	14,500
	United Kingdom	·	1917	66,600	I. 6,200	60,400

¹ Includes some belting leather.

IMPORTS AND EXPORTS OF SOLE LEATHER

It is convenient to deal at this stage with the subject of the imports and exports of sole leather. The Customs returns before 1920 did not separately specify sole leather either in the imports or the exports. By means of a detailed comparison with the returns for other countries, however, an estimate of the äverage imports for 1912-16 (but not of the exports) can be given. The imports and re-exports of sole leather in 1921 and 1922 are shown in detail in Table B 59.

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The net imports in 1921 were about 5,000 tons and in 1922, 7,200 tons. About 40 per cent came from the Empire in the former year, but less than 30 per cent in 1922. The estimate of the average imports from 1912-16 is 24,000 tons. The United States is by far the most important country in the list (55 per cent of the total in 1922), but Australia and Canada are also appreciable suppliers. In 1922 a fair amount came in from the central European countries, but this was mainly offal or cheap bends.

The exports of sole leather from the United Kingdom in 1921 and 1922 are shown in Table B 96. In the earlier year they amounted to 5,400 tons (exceeding the net imports) and in 1922 to 3,400 tons. No estimate can be given for 1913. About 90 per cent of the exports go to foreign countries, the United States being by far the most important customer.

In view of the difficulty of determining the amount of sole leather offal produced, the figures we have given of production and of imports and exports of sole leather do not permit of a reliable estimate being made of the consumption of sole leather. Certain pre-War figures of consumption of leather (to be referred to later in connection with upper leather) were obtained by the Boot Manufacturers' Federation, but these were considerably defective on the sole leather side.

Various computations have been made from time to time of the consumption of bends by repairers. From these it would appear that about 40 per cent of the bends produced in Great Britain are used for repair work. This is equivalent to something in the neighbourhood of 50,000 bends weekly.

IMPORTS AND EXPORTS OF UNDRESSED HIDE LEATHER

Owing to the method of compilation of the Customs statistics it is most convenient to discuss the imports and exports of other undressed hide leather at the present stage. Table B 58 shows in detail the imports and also the re-exports for 1913, 1921, and 1922. The figures for the last two years have been compiled from the details set out in Tables B 59, 60, and 63. The net imports (less re-exports in the three years) were :---

					Tons.	£(000).	
1913	•	•	•		37,300	3,852	
1921	•	•	•		9,050	1,480 🚛	ġ,
1922	•	•	•	•	15,700	2,054 📲	Alest.

Only 40 per cent of this leather came from the Empire in 1913, but 59 per cent and 54 per cent respectively in 1921 and 1922. By far the biggest contribution s that from the United States, 18,100 tons in 1913 (probably mostly sole leather, according to the indication given by the 1921 and 1922 figures). Next in mportance are the tanned kips from India, referred to in detail in Section C. These kips are almost entirely used for upper leather, and are the foundation of a large industry in Northamptonshire and the Leeds area. The industry anguished before the War, but revived to a marked extent during the War, and was indeed almost the sheet anchor for the supply of upper leather for the

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boots of the British and Allied Armies. Since the War it has not generally flourished, and its future for the use of boots manufactured in this country is not, at the moment, clear. In certain grades, however, there is a keen demand for the products of these kips in the United States.

The corresponding figures giving the exports of undressed hide leather are shown in Tables B 95, 97, 99, and 100. From these tables the following summary figures are obtained :---

					Tons.	£(000).
1913				•	7,000	1,244
1921			•		8,100	1,454
1922	•	•			7,500	1,504
				· •		

The pre-War volume of exports has been well maintained ; more than go per cent went to foreign countries, but there has been a marked change in the relative order of importance of the countries as customers, and the change in the relative position of France and the United States in this respect is worth setting out in detail, and comparing with the corresponding position of these countries as suppliers of leather to us. The export figures (by value) are as follows :---

	`		1913 £(000).	1921 £(000).	1922 £(000).
France .			330	233	516
United States	•	•	269	358	555
corresponding impo	rt figur	es are	e :		
			1913 £(000).	1921 £(000).	1922 £(000).
France			32	189	120
🐞 United States			1,589	480	561

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Our imports from France have multiplied fivefold (average of 1921 and 1922) over pre-War, but from the United States they have fallen to one-third of their pre-War value. Our exports to France, on the other hand, increased by only iz per cent (average of 1921 and 1922), but our exports to the United States mearly woubled. The explanation of these facts, of course, is that france have depreciated relatively to sterling, while sterling has itself depreciated relatively to dollars. A further important factor in the case of the United States is that leather is one of the very few manufactured or semi-manufactured articles which is not subject to an import duty.

The present is a suitable place to refer to some other figures which can be given of the production of heavy leather. These relate to belting and textile leather. Practically none of the heavy leather used for civilian purposes, bags, trunks, upholstery, etc., was produced during the War, and no information regarding it was accordingly obtained. Estimates of post-War production of these leathers can only be in the nature of guess-work.

LEATHER BELTING

Table B 9 gives the production of leather belting in 1907 at 109,000 cwt. of which 40 per cent was exported). This would represent about 125,000 wt. of belting butts. War-time information gave the average weight of a elting butt at about 25 lb., so that the number of butts used exceeded 55,000 n the year. The production was diminishing towards the end of the War nd for the whole of 1918 was about 400,000 butts, there having been a subtantial falling off in exports, referred to later. There are very few data for an stimate for the production in 1921 and 1922. The falling off in exports in hese two years would account for a diminished production of 27,000 cwt. 1 each year as compared with 1907, and it is most probable that the consumpion at home was well below the 1907 level. Moreover, there was possibly n increase in the use of woven hair, cotton and rubber belting in place of ather (see Tables B 116 and 117 for the exports of these other kinds of elting), and from these facts it would seem that the annual production did ot exceed 75,000 cwt. in 1921 and 1922, as compared with the corresponding gure of 109,000 cwt. in 1907 and was probably lower. It is interesting to ote in this connection that the figures for production in the United States ave shown substantial increases from 1909, the figures according to various ensuses taken there being :---

						Dutto
1909	•	•				521,000
1914	•	•		•		647,000
1919	•	•	•	•	•	1,483,000
1921	•	•	•	•	•	1,195,000

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hese figures are in striking contrast to those for this country, and there is o doubt that the leather belting industry in this country has not made headway recent years, and the inferior position relatively to that of the industry in the nited States is not entirely accounted for by loss of export trade.

The statistics of the import of leather belting are given in detail in Table B 86, hile the corresponding exports are set out in detail in Table B 115. The ports are comparatively unimportant and consist mainly of round leather ling. The exports, which, as previously pointed out, represented to per nt of the production in 1913, showed 60 per cent to foreign countries pre-War, it less than 50 per cent in 1921 and 1922. The chief foreign market before e War was Russia, and the loss of this market has in itself meant a lessening production of the equivalent of 50,000 to 60,000 strap butts per year. India us the biggest Empire market for British belting, and was indeed the biggest arket of all countries. The falling off to that country has been large also, d is probably equivalent to 40,000 butts per year.

On account of their importance as competitors to leather belting, statistics given of the imports and exports of (a) woven hair and cotton belting andmachinery belting other than woven hair or cotton. (See Tables B 87 and

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88 for imports and Tables B 116 and 117 for exports.) An examination of the export tables appears to give a clear indication of the advance of other forms of belting over leather belting, but a detailed analysis on this point is not called for in this place.

TEXTILE LEATHERS

A little miscellaneous information is available regarding the use of leather for textile purposes. Under the circumstances existing during the War about 3000 native hides per week were required for wool-combing machinery, but this figure has probably been reduced at the present time. During the last year or two of the War about 3,500 buffalo hides per week were used for the manufacture of buffalo pickers. About 50 per cent of the resultant product was exported, India taking more than half the exports, chiefly for her jute mills. In addition there is some information available concerning sheepskin leather for roller covers for cotton mills, but this can most conveniently be referred to under sheepskin leather production (see p. 89). No details are available regarding the imports or exports of textile leather, these, presumably, being included in each case as unspecified leather manufactures.

The information available regarding the leather used in 1917 for various mechanical purposes may be summarised as follows :---

Monthly Average.

								a avai	
Curried	butts for l								36,700
_ "		other mec					•	·	2,500
Rough s	strap butts	for mech	anical pu	irposes	•				650
Dressing	g hide but	ts or split	hides fo			•		•	1,700
,,	,,	,,	,,	hose bu	itts		•		900
,,	,,	,,	,,	hydraul	ic leath	er	•		400
,,	"	,,	,,	condens	er rubb	er l	eathers		1,300
, در	,,	,,	,,	roller co	overing	leat	hers		1,200
<i>*</i> ,,	"	,,	,,	combin	g leathe	r	•		220
"	**	,,,	,,	other m	echanic	al I	ourposes		750

UPPER LEATHER

The details of upper leather require to be treated under various headings. In the Census of Production of upper leather taken during the War, no fewer than 48 different categories of this leather were scheduled, and many of these could be readily subdivided. The main divisions of upper leather are (a) chrome; (b) vegetable; and the most convenient headings for present purposes are (a) glacé kid; (b) chrome calf leather; (c) vegetable tanned and cutried upper leather; (d) other upper leathers.

GLACÉ KID

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The pre-War requirements of glacé kid by boot manufacturers in this country were returned by boot manufacturers as 95,000,000 feet (including 20 per cent

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for manufacturers not making returns). The imports in British official returns are given by weight and do not afford a very safe basis of estimation in terms of the unit universally adopted by the industry, viz. the foot of area. Inasmuch as practically all the pre-War imports came from the United States in indirect method of estimating import by feetage is, however, possible. Table B 68 shows imports and re-exports, from which it will be seen that he net imports were 43,544 cwt. valued at £1,387,000; 96 per cent of he gross imports came from the United States, and we shall not be far wrong n applying the same proportion to the net imports. These lead to the figures of 41,800 cwt., valued at £1,332,000, as the imports from the United States. The United States official figures, however, are expressed in terms of feet, and he figure for 1913 was 43,890,000 feet of value 7,064,000 dollars (see Tables 3 25 and 26), equal to f.1,450,000 at pre-War exchange. Making some llowance for the freight and insurance in order that the two values may be comparable, the value of the exports from the United States to the United Kingdom is about 5 per cent above the corresponding figure for the imports nto the United Kingdom from the United States, and accordingly the error n assuming that the 43,890,000 feet as stated by the United States returns is quivalent to the 43,544 cwt. referred to in the British returns is probably ot more than the same percentage in error. From these figures it would ppear that the imports into the United Kingdom in 1913 were in the neighourhood of 45,000,000 feet. Comparing this figure with that of consumption bove leads to 50,000,000 feet for the production in this country in 1913, but his figure, as will be shown later, is certainly higher than the actual truth.

Another way of approaching this problem is through the figures of imports f raw skins, but this method is subject to certain deficiencies. Table B 43 hows the imports of goatskins in 1913 as 12,095,000, and the re-exports ,403,000, leaving a balance of 3,602,000 skins. As 5 feet to the skin (rather elow the average figure for those manufactured in this country) the correponding feetage would be 18,000,000. In view of the long delay which may ake place between importation and re-exportation the difference of the two gures may not adequately represent consumption of skins for a particular ear. Taken in conjunction with the previous figures, however, it seems to e thoroughly justifiable to take the production in 1913 as approaching 0.000,000 feet, and the true figure may well be higher. At the same time, owever, it would appear that the boot manufacturers' returns of consumption f this leather in 1913 were overstated, and if we take the total consumption : 65,000,000 feet (imports 45,000,000 feet and production 20,000,000 feet) e shall probably not be very far from the truth. The production before the lar was accordingly nearly one-half of the imports, equivalent to nearly ne-third of the consumption.

On the basis used above (viz. 43,890,000 feet, equivalent to 43,544 cwt.) le net imports into this country in 1921 and 1922, 12,600 cwt. and 28,400 wt. respectively, represent 12,700,000 feet and 27,300,000 feet. Using the asis of the number of imported skins the position of production in this country 1921 and 1922 works out as follows :---

Skins imported Skins re-exported	•	•	• •	1921 4,456,000 3,165,000	1922 8,724,000 6,000,000
Retained			•	1,291,000	2,724,000
Corresponding feetag	e			6,450,000	13,620,000

The circumstances of the imported goatskin trade in 1920–22 were very erratic, and there were probably many skins imported in 1919 and 1920 which were available for tanning in 1921 and 1922. The corresponding position for 1919 and 1920 is therefore of interest, and may be set out as follows :—

Skins imported . Skins re-exported .	•	:	1919 10,526,000 5,803,000	1920 11,942,000 4,425,000
Retained . Corresponding feetage		•	4,703,000 23,520,000	7,517,000 37,580,000

It seems certain from these figures that some of these skins imported in 1919 and 1920 were carried over into the following year for consumption. It is possible to give corresponding estimates for 1923 (11 months). In that period the net imports of skins were 4,205,000, equivalent to a production of 21,000,000 feet of glacé kid, or nearly 23,000,000 for the whole year. The net imports of glacé kid in the 11 months were 25,961 cwt., equivalent on the above basis to 26,200,000 feet. Thus, while in 1921 and 1922 the production was approximately over one-half of the imports, for the more stable year, 1923, the production was slightly less than one-half. The position may be summarised in the statement that, whereas before the War production of glacé kid was one-third of the consumption, it is now about one-half of the consumption and is steadily increasing.

Some direct information is also available on the subject of the production of glacé kid at certain times. During 1918 the production as shown by monthly censuses amounted to nearly 20,000,000 feet in the year. Further, a special census taken in 1922 showed that the actual output in that month was 1,300,000 feet. Particulars were also asked of the greatest output in any one month⁴ during 1919-22, and also of the maximum monthly capacity. The answers showed that the maximum actual post-War output was 1,900,000 feet per month, equivalent to 23,000,000 feet per year, while the maximum capacity was 2,850,000 feet per month, or 34,000,000 feet per year, a figure far higher than the consumption (production plus imports) in 1921 and equal to 80 per cent_of the figure for 1922.¹

The figures here collected and published for the first time should be helpful in giving a proper perspective of an industry which has met with more than

¹ The preliminary figures for 1923 just available showed a net importation of 4,554,000 goatskins and 27,900 cwt. of glace kid. On the same bases as before, these figures indicate a production of 22,800,000 feet and an importation of 26,500,000 feet. usual difficulties in establishing itself in this country, but which is without doubt steadily overcoming these. New factories have been started in 1923 and the prospects are not unfavourable. The American article, however, has the extremely great advantage that it is produced on a huge scale (54,000,000 raw goatskins were used there in 1919) and this assists in enabling boot manufacturers to obtain enough leather of a uniform character for large orders. The sole leather for 10,000 pairs of boots of identical character can probably be obtained from 500 cattle hides. The corresponding upper leather would probably require 6000 skins, and it is more difficult to get 6000 skins uniform in character and size than it is to get 500 cattle hides uniform. Nature is on the side of the big battalions in the production of upper leather to a greater extent than in sole leather.

These paragraphs on glacé kid may be closed by reference to the exports of glacé kid, which are by no means insignificant. These figures are set out in detail in Table B 106, from which it will be seen that in 1922 France and New Zealand were our chief customers. A proposed Customs alteration in the latter country will, if it becomes effective, seriously damage the British (as well as the Australian) trade to that country in favour of that of the United States. Using the basis referred to earlier, the exports in recent years may be summarised as follows :—

	Year					Feet.	Value.
1920 .				•	•	2,680,000	303,000
1921 .	•		•	•	•	950,000	74,000
1922 .	. •	•	•	•	•	2,120,000	123,000
1923 (wh	ole yea	ır at ra	te of 1	I mor	nths)	1,600,000	75,000

CHROME CALF LEATHER

The boot manufacturers' statement of the consumption of chrome calf and side upper leather pre-War was (allowing 20 per cent for firms not making returns) :—

					reet.
Box calf	•	•		•	31,200,000
Willow calf	•	•	•	•	9,200,000
Veals .	•	•	•		10,700,000
Box sides		•	•		18,800,000
Heavy dull s	ides	•	. •	•	8,700,000

It is not possible to deal with these calf leathers in the same clear-cut way as glacé kid. In certain instances figures of chrome side leather are included with those of chrome calf, and in most cases manufacturers of the one are also manufacturers of the other. The method of estimation which can be applied in the case of glacé kid cannot be helpfully used here, since there is considerable variation in the relation between weight and area of the skins. An interesting illustration of this, which has been the cause of wrong inferences concerning the state of the industry in high quarters, may be referred to. The exports

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of box and willow calf upper leather from this country in 1920 were 10,894 cwt., valued at £244,605, or £22.4 per cwt. The imports into this country of box and willow calf from Germany in the same year were 13,607 cwt., valued at £535,407, or nearly £40 per cwt. The obvious inference first drawn from these figures was that the British producer was able to produce cheaper than the German manufacturer. In actual fact, however, the reverse was the case to an acute degree, the position being that the English production exported was of a heavy variety, giving possibly only about 250 feet to the cwt. for £22.4, while the German leather imported was of a much lighter kind giving, possibly, 500-600 feet to the cwt. for £40, and the important unit is the foot and not the cwt.

It is not possible to estimate the production of calf upper leathers. Not only does the native supply of skins introduce a factor of which very little, statistically, is known, but the imported skins, returned for Customs purposes, by weight are very variable and afford little indication of the feetage forthcoming when tanned. Certain censuses were taken during the War, but the results were far from being a measure of normal production, since a number of the firms concerned were engaged on the production of military leathers. These censuses indicated that the production of calf upper leather in 1918 was about 5,500,000 feet, and of chrome side leather about 23,000,000 feet.

The most reliable post-War information obtained on the subject of chrome calf and side leathers is that afforded by a special census taken in March, 1922, when the industry was in a very depressed state. In that month the output of chrome side leather was 1,100,000 feet and of calf, 550,000 feet, a total of 1,650,000 feet. As in the case of glacé kid referred to above, figures of the maximum monthly production between 1919 and 1922 were obtained, and these, in the aggregate, were 2,660,000 feet of side leather, and 1,320,000 feet of calf, a total of 3,980,000 feet. The maximum capacity for production of chrome calf and side leather together was returned as 4,920,000 feet per month.

The figures given above of the requirements of boot manufacturers for calf and side leather total 78,600,000 feet, but the post-War requirements are almost certainly less than this figure. The figures of maximum capacity and maximum actual post-War production are at the rate of 59,040,000 feet and 47,760,000 feet respectively. It would appear, therefore, that the capacity for turning out chrome side and calf leather in this country is nearly 80 per cent of the requirements, and that production soon after the War actually reached to more than 60 per cent of the requirements.

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Details of the imports of box and willow calf in 1913 and 1922 are shown in Table B 67. Corresponding figures of the imports of side leather are not known, but are included with certain other types of upper leather in Table B 70. Table B 67 shows that practically all the box and willow calf imported is from foreign countries, though in 1922 there was an appreciable item from Canada. The contribution attributed to Holland in that table really came from Germany, which is by far the chief outside source of supply. Quite a feature of the table is the reduction in the supply from France, this falling from 10,521 cwt. in 1913 to 1,388 cwt. in 1922. The imports from

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Germany created special difficulties to tanners in this country during 1922 and 1923 owing to the exceedingly low prices at which the leather was sold. Germany has a substantial supply of calfskins, the export of which was prohibited and the price of which was much below the price of the skins to which the British tanners had access. In addition, the labour cost was much below that of the British article, and accordingly the British leather could not compete with the German, and for some time production almost ceased. Improvement in the boot manufacturing industry, however, and reduction in imports from the United States in consequence of exchange movements have been responsible for some improvement towards the end of 1923.

The exports of box and willow calf are shown in Table B 105, and it will be noted that these are of substantial magnitude, amounting to nearly $f_{250,000}$ in 1922. France was by far the biggest customer in 1922, followed by the United States. South Africa, Canada, and New Zealand also took substantial quantities. The fact that imports from France have fallen considerably while exports to that country appear to have increased is curious, in view of the depreciation of the franc. The exports to the United States are almost entirely in the heavy varieties of box calf and also in side leather. Probably no section of the leather industry suffered in 1920-23 to the extent of the chrome calf upper leather industry, but, at the end of 1923, the prospects appear rather better than for a long time past, and there is no doubt that under equal conditions the English leather can hold its own. Prominent boot manufacturers have given testimony that the quality of the British leather is equal to any imported (in the case of willow calf it is said to be superior to any other) and the Admiralty which, before the War, expressly specified that imported box calf had to be used for the upper leather of seamen's boots will now only accept British leather, and is desirous that this leather should be stamped to indicate its British origin.

OTHER UPPER LEATHERS

Not much statistical information is available concerning other British upper leathers. The boot manufacturers' requirements of patent leather before the War were 11,000,000 feet per annum, but this class of upper leather is subject to a good deal of variation in demand owing to changes in fashion. The production in this country is small, probably not more than 500,000 feet, though there is a large production of patent leather for motor work. At the present time British patent upper leather is in great demand, but the trouble is that Trade Union restrictions prevent the training of suitable labour. If these restrictions could be modified a large increase in production would follow. Progress has, however, been made in this country, and the output at the present time, though small, bears comparison for quality with any imported. Particulars of the imports of patent, varnished, japanned, and enamelled leather are given in A. Table B 69, and do not necessarily relate only to upper leather, though it is certain that the amount included in the table which is not upper leather is small. Before the War three-quarters came from Germany, but since the War the bulk has come from the United States, though an appreciable quantity is also received

from Canada. The figures of exports of the United States to the United Kingdom (see Table B 25) give the feet age for 1921 as 8,450,000 feet, while the corresponding import figures for the United Kingdom were 11,050 cwt. On this basis (1 cwt. = 765 feet) the net imports in 1921 and 1922 were 11,700,000 feet and 13,500,000 feet respectively, so that the consumption was probably in the neighbourhood of 12,000,000 feet and 14,000,000 feet respectively in the two years.

The exports of patent and japanned leather are shown in Table B 104, but include very little upper leather. These exports are spread over many countries, but 75 per cent go to foreign countries.

The boot manufacturers' statement of consumption of semi-chrome upper leather before the War was 24,000,000 feet. The monthly censuses taken in 1918 showed the production then to be about 2,400,000 feet per month, or nearly 29,000,000 feet per year. Over 90 per cent of this was from Indian tanned kips, but the substantial quantity of 1,500,000 feet of semi-chrome box and willow calf are also included. No particulars can be given of the foreign trade in this leather, as the statistics are not separately specified in the Customs returns.

The boot manufacturers' statement of pre-War requirements of wax memel kips was 2,500,000 feet per year. The pre-War production of this leather was much in excess of that figure, and though some was exported it is probable that the figure understates the true consumption in this country. The 1918 census returns of the production of this leather throw no light upon the amount used for civilian purposes, as there was a huge production of this class of leather for military purposes. The total production in 1918 was round about 18,000,000 feet per year. Further reference to the importance of the Indian tanned kips in the leather supply of this country is made in the section on India.

The boot manufacturers' statement of the pre-War consumption of wax splits was 3,200,000 feet per year, and most of this was imported from the United States. During the War there was a substantial production in this country, amounting to 5,000,000 to 6,000,000 feet a year, but more hides were split at that time than was the case before the War. The United States figures of exports to this country (Table B 25) show that for 1921 the exports of grain and finished splits was 1,860,000 lb. and of wax and rough splits, 860,000 lb.

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The only other individual types of upper leather of which any statistical information of pre-War requirements can be given are persians, sheep, and roans. The boot manufacturers' statement included about 5,500,000 feet under this head for a pre-War year. The 1918 censuses returned the amount of sheepskin upper leather produced as nearly 5,000,000 feet per year, of which 750,000 were chrome sheep. The amount of upper leather from vegetable-tanned goatskins was about 1,500,000 feet per year, making a total of vegetable-tanned upper leather under the two headings of 5,750,000 feet.

No information is available concerning the amount of suède leather required for uppers, nor of reptile and skin leather. These are, however, subject to large fluctuations in demand owing to fashion.

The total figures of the production of (a) outside upper leather; (b) leather

or tongues; and (c) leather for linings in 1918 were approximately as ollows:---

Substance.			Feet.	Cwt.	Estimated total feetage.
Under 1½ mm.		•	65,000,000	20,000	75,000,000
$1\frac{1}{2}-2$ mr	n.	•	35,000,000	50,000	55,000,000
Over 2 mm.	•	•	10,000,000	100,000	45,000,000
Tongue leather		•			5,000,000
Lining leather	•	•			12,000,000
			•	- ,	1.000000-00000
Total	•	•	and the second		192,000,000

is not possible to express in terms of feetage the total imports and exports ⁻leather. Reference has already been made to the figures for glacé kid, box id willow calf, and patent leather. Tables B 70 and 71 give the figures of aports of all other kinds of upper leather, while Table B 107 gives for 1922 ie corresponding export figures. For 1913 the figures of exports of upper ather were not separated from those of other dressed leather.

Allowing for some estimation in certain items, the value of the imports et) and exports of upper leather may be summarised from the various tables ferred to as follows :---

Imports (net) Exports	•	•	•	•	±1913 €(000) 3,615 500	±(000) 3,873 648	1922 £(000) 3,324 944
Excess of	Impo	orts	•		3,115	3,225	2,380

ery little can be said about the many other varieties of dressed leather produced the United Kingdom. No statistics are available of the production of leather r harness and saddlery, trunks, bags, etc. With the rapid development of e manufacture of motor-cars in recent years the production of leather for holstering of cars has also grown, and at the present time probably accounts r nearly 350,000 hides per year of approximately 50 feet each, sufficient on e average for the covering or recovering of about 140,000 cars per year.

SHEEPSKIN LEATHER

Sheepskins are tanned in this country for many purposes. Reference has eady been made to their use as linings and outer upper leather for boots, d to the lambskins required for roller leather. The number of native skins juired for this purpose is no fewer than 2,500,000 per year. (In addition st Indian tanned sheep are used in appreciable quantities for this purpose.) irmally a few hundred thousand of New Zealand skins are used for roller ther. The remarkable falling off in the flocks of sheep (20 per cent) naturally bduced a serious difficulty for this industry, but the slackness of the cotton industry has so far prevented this from becoming acute. Skivers for the bookbinding trade require about 1,300,000 skins, according to an estimate for 1913, of which about 30 per cent are exported. For the manufacture of hat leather the requirements for 1913 also were estimated at nearly 2,200,000 skivers, 40 per cent of which were exported. This trade, however, does not at the present time attain its pre-War dimensions. Other uses for these skins, of which no statistical particulars are available, are for gloving leather, upholstery leather, leather fancy goods, gas-meter leather, motor clothing, etc. During the War the manufacture of jerkin leather (from sheepskins) for clothing reached very large dimensions, and required about 12,000,000 feet per year.

The last class of leather to be mentioned is that dressed from rough tanned goat- and sheepskins imported into this country. Statistics of the imports of rough-tanned goatskins are set out in detail in Table B 64 and of rough-tanned sheepskins in Table B 65. The bulk of the goatskins came from India, though before the War a substantial quantity came also from West Africa. The sheepskins come from India and Australia. There is a very considerable re-export trade in both articles, though it has not, since the War, attained to its 1913 volume, when considerable quantities were shipped to Germany and Austria for the manufacture of fancy goods.

Allowing for these re-exports and converting from the official unit (cwt.) to number of skins, the consumption of the rough-tanned skins in this country works out as follows :---

					1913	1921	1922
Rough-	tanned	goatski	ns.		1,500,000	1,000,000	2,600,000
"	"	sheepsl	kins	•	5,100,000	3,100,000	4,500,000
,	Total	•	•	•	6,600,000	4,100,000	7,100,000

There is also an appreciable import of the corresponding dressed skins, particulars of which are given in Table B 74, amounting to about 500,000 skins in 1921 and 900,000 in 1922. The exports of the corresponding skins dressed in this country are of about the same order of magnitude as the imports (see Table B 109).

A fair amount of dressed calf and kip leather is also used for the manufacture of fancy goods, but statistics are available only for the foreign trade. Details of the imports of this leather are given in Table B 73 and of the exports in Table B ro8. The imports are mainly from France and the United States; the exports are spread over many countries, France and Germany being the most important customers in 1921 and 1922.

BOOT AND SHOE MANUFACTURE

The manufacture and repair of boots and shoes is by far the most important form of consumption of leather in this country, accounting for more than

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75 per cent of the total production by weight. The report of the Census of Production of 1907 gave the production of boots in that year (including a few ubber ones) at 08,000,000 pairs, of value (at the manufacturer's) £20,100,000, the value of the materials used being £14,000,000. It is of interest to note that the corresponding production in the United States was 285,000,000 pairs in 1909, increasing to 331,000,000 pairs in 1919. Of recent years there has been development in the use of rubber for soles, and for 1923 it has been stated that the amount of crêpe rubber so used has been 2,500 tons. Quite apart from this recent development there has been for a long time an appreciable production of boots from substitute materials, an enquiry made in 1918 showing no fewer than 20 different varieties aggregating to 120,000 pairs weekly. To deal adequately with the boot manufacturing industry would require a volume in itself, but a few facts regarding it can briefly be noticed. The chief localities of production are Northampton town, Northampton county, Leicester, Norwich, Bristol, Stafford, Chesham, Leeds, and London. Until lately the manufacture in each district had been very highly specialised, Northampton concentrating on men's boots, Leicester on women's, etc. The unequal intensity of the depression of 1921 and 1922 as between the different classes of manufacture. however, has caused many manufacturers to spread their production over an increased number of classes of boots. Perhaps the most noteworthy feature of the boot manufacturing industry is the fact that the relationship between the employers and employed has been developed to a greater extent probably than in any other industry. The Unions are under a single control and the wages and other agreements have a clause in them under which either side is liable to a monetary penalty for infringement of the agreement by any section of their members, and this clause has occasionally become operative.

The importation of boots into this country is of comparatively small dimensions. Full details are shown in Tables B 76–78. Since 1920 the official figures have separated men's from women's and children's in the official returns. Before the War the imports numbered about 2,500,000 pairs a year, averaging nearly 6s. 4d. per pair c.i.f. The United States was the chief supplier, closely followed by Switzerland, while substantial quantities also came from France, Germany, and Austria. In 1921 and 1922 the net imports were as follows :—

			1921 (pairs)	1922 (pairs)
Men's	•		90,000	200,000
Women's and children's	•	•	680,000	1,160,000
			-	
Total	٠	•	770,000	1,360,000

The import value of the men's boots in 1922 averaged over 135. per pair, and of the women's and children's about 145. per pair. The men's boots in 1922 came chiefly from the United States and Switzerland, but the last-named country was ahead of all others in the supply of the ladies' and children's, 40 per cent of the high average price of nearly 17s. per pair coming from that country. The imports of boots and shoes increased considerably in 1923, and totalled 5,110,000 pairs. At certain periods of the year large quantities at low prices were imported from Germany.

Before the War the exports of leather boots and shoes reached very important dimensions, totalling nearly 17,500,000 pairs valued (f.o.b.) at $f_{4,200,000}$. This probably represented from 15 per cent to 20 per cent of the production. This trade was spread over the whole world, and Table B 111 gives details of the 1913 exports. Over 70 per cent went to Empire countries, South Africa being the biggest customer, with Australia second, followed by New Zealand and Canada in order. The foreign countries taking the largest quantities of British boots were Argentine, France, Belgium, and Holland. As in the case of the imports, the exports for 1921 and 1922 can be separately described under the headings (a) men's boots and shoes, and (b) women's and children's boots and shoes. Details of these are shown in Tables B 112 and 113, and these tables can be shortly summarised as follows :---

				1921 (pairs).	1922 (pairs).
Men's . Women's and child	dren's	•	• •	1,900,000 1,800,000	2,200,000 3,700,000
Total	•		•	3,700,000	5,900,000

The export value of the men's boots in 1922 averaged nearly 13s. per pair, and of the women's and children's a little over 7s. 6d. per pair. The men's boots exported averaged about the same price as those imported, but the women's and children's shoes imported averaged nearly double the price of those exported. The figures of total exports, 3,700,000 pairs in 1921 and 5,000,000 pairs in 1922, show a striking falling off in comparison with the pre-War figure of 17,500,000 pairs. Inspection of the tables shows that this decrease was spread over most of the countries, Empire and foreign alike. In the case of Årgentine, the 1913 figure of 700,000 pairs fell to about 7000 in 1921 and 22,000 in 1922, the reason for the fall in this case being the heavy import duty under which a local industry had been developed. In 1923, however, British productions made more headway in that market, and it was announced towards the end of the year that the import duty would be doubled, in order to afford a further measure of protection to the native manufacturers. The exports to Holland have been fairly well maintained, but heavy decreases are to be noted regarding the other European countries; Belgium falling from 650,000 pairs to 180,000 pairs, and France from 680,000 pairs to 240,000 pairs. The reason in these cases is to be sought in the depreciated currencies of most of the European nations.

The comparative pre-War and post-War exports to various Empire countries are sufficiently important to warrant special attention, and can be summarised in approximate figures as follows :--

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GREAT BRITAIN AND IRELAND

		1913		1921		1922					
			<i>r</i>	Women &	`	<i>(</i>	Women &	r			
		Total Pairs (000)	Men	Children Pairs (c	Total. 00)	Men.	Children. Pairs	Total. (000)			
South Africa.		4,644	300	564	864	480	1,092	1,572			
Australia .		2,520	-	18	18		300	300			
New Zealand		1,200	36	168	204	216	768	984			
Canada .		888	бo	17	77	108	60	168			
India	•	1,908	48	24	72	54	48	102			
Whole Empire		12,540	840	1,020	1,860	1,440	2,512	3,952			

The only Empire country which in 1922 in any way approached its pre-War purchases of boots from this country was New Zealand. The main reason for the fall has been the import tariffs which have been set up and developed in all the Dominions, and under the protection of which local industries have been developed. In the case of South Africa an absolute embargo was placed for a period on certain classes of imported boots, and this hit the British boot trade very hard.

It is of some interest to note that, up to 1922 at any rate, the United States export trade in boots and shoes had not been affected to the same proportional extent as the British. The United States export trade is comparatively small, imounting in 1913 to 10,300,000 pairs (about 3 per cent of the production). In the fiscal year 1921 it was 12,580,000 pairs, being an increase of 22 per cent in the 1913 figures, as compared with a decrease of nearly 80 per cent in the lase of the British exports.

In 1923, however, British exports have made more headway, the total exports for the whole year being returned as 9,500,000 pairs. The official eturns have, however, since April, 1923, included shipments to the Free State of Ireland in the British exports, and if allowance is made for these the figure or 1923, comparable to the 17,500,000 pairs for 1913, is reduced to 6,900,000 pairs. Although the statistics show improved position, in view of the declared ntention of many of the countries which have in the past been our set customers to increase their import duties, if necessary, in order to afford dequate protection for the development of their own manufacturing industry, he position can hardly be considered as satisfactory and may easily move in an dverse direction again.

LEATHER GLOVES

The Report of the Census of Production taken in 1907 returned the proluction of leather gloves at 7,150,000 pairs, of value £848,000 (the corresponding igure for the United States was over 40,000,000 pairs). Although no later igures are available it is certain that the industry has made considerable progress ince that date, though in 1923 it has suffered severe competition from imported loves, the chief countries manufacturing these being placed in an extremely avourable position for exporting to this country owing to the depreciation

of their currencies. Full details of imports are given in Table B 79 and of exports in Table B 114. In 1913 the imports totalled 17,600,000 pairs (of which 2,500,000 pairs were re-exported) fairly evenly distributed from France, Austria-Hungary, Germany, and Belgium in the order named. In 1921, however, only about 3,750,000 pairs arrived, of which 360,000 were re-exported, while in 1922 the imports totalled 5,380,000 pairs and the re-exports 650,000 pairs. Imports from Austria fell away almost entirely up to 1922, but have reappeared since, while Germany and Belgium fell to about 10 per cent of the pre-War value. France has, however, maintained nearly 50 per cent of her 1913 trade with this country. The 1923 figures show a net importation of 6,880,000 pairs, or an increase of about 25 per cent on 1922, but were still only 40 per cent of the 1913 net imports.

The exports of leather gloves have also fallen very considerably from their pre-War magnitude. In 1913 exports exceeded 2,500,000 pairs, but both in 1921 and 1922 the figure was rather below 400,000 pairs. Table B 114 shows that the main reason for this diminution is the large decrease in exports to Canada and the United States, these two countries between them taking nearly 1,700,000 pairs in 1913, but only about 120,000 pairs in 1922. In 1923 the total exports were about the same as in the two previous years, but no detailed information is available.

SADDLERY AND HARNESS

Table B 11 shows that, according to the Report of the Census of Production taken in 1907, the total production of saddlery and harness in that year was valued at £2,230,000, and Table B 10 shows that at the time of that census the number of people drawing wages and salaries in respect of the industry was between 15,000 and 16,000. Beyond these there are no statistics available regarding production in this country. The increase in motor transport at the expense of horse vehicles would certainly suggest that the production since 1907 has declined, and the figures for the United States, where the development of motor transport has been greater than in this country, are of interest on this point. These figures show that the total number of persons connected with the industry there, which was 19,000 in 1909, had fallen to 18,400 in 1914. and 14,900 in 1919. The corresponding values of the output in the three years mentioned were 54,200,000 dollars, 53,600,000 dollars, and 83,700,000 dollars respectively, but there was, of course, a substantial increase in price over the period. The imports of saddlery and harness into this country are extremely small (see Table B 81), amounting to about £2000 per year only. The exports (see Table B 118), however, attain substantial amounts, being of value £445,000 in 1913, £208,000 in 1921, and £184,000 in 1922. Since 1920, import statistics have been returned also by weight, and there would appear at first sight from the table to have been a substantial increase in quantity exported, the figure rising from 6,800 cwt. in 1921 to 11,400 cwt. in 1922. This increase in quantity, however, was entirely accounted for by the increase from 113 cwt. to 4,569 cwt. in the case of Canada; but as the value of this was less than £4 per cwt., as

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against $\pounds 25$ per cwt. for the remaining exports, it does not appear that there was much real increase. More than two-thirds of the total exports go to Empire countries, South Africa and Australia being the chief customers. Of foreign countries, in 1922 the United States took more than all the rest put together. In 1913 Argentine and Brazil had been appreciable buyers, but the exports to these countries in 1922 were extremely small.

LEATHER BAGS, TRUNKS, SPORTS, AND FANCY GOODS

No branch of the leather industry in Great Britain is so deficient in statistical information as that concerned with the manufacture of leather bags, trunks, and sports and fancy goods. As a consequence the importance of this branch of the industry is not sufficiently recognised. Until 1920, no details of imports and exports at all were available, but since that date the values (but not quantities) have been included in the official returns. The Report of the Census of Production of 1907 returned the output of this branch of the trade (employing 6,800 persons) at $f_{1,270,000}$. This was probably an understatement at the time, and it is certainly much below the present rate of production. The United States figures of production show values of 59,400,000 dollars in 1909, 49,200,000 dollars in 1914, and 131,400,000 dollars in 1919 respectively, and the number of persons employed in the three years as 24,500, 22,500, and 28,900 respectively. These figures point to a decline in the few years before the War, followed by a substantial improvement afterwards, and the course of events in this country has probably been similar. The Customs figures since 1920 enable separate reference to be made in the foreign trade to (a) trunks, bags, and other solid leather goods; (b) fancy leather goods; (c) fancy artificial leather goods; and (d) leather sports goods. Even with these specified classes there is still a substantial amount $(f_{200,000})$ of exports unclassified.

The figures of imports, shown in detail in Tables B 82, 83, 84, and 85, may be summarised as follows :---

							1913 £(000)	1922 £(000)
Leather trunks and bags						• •		23
Fancy leather goods .								153
Leather sports goods .						• .		2
Leather manufactures other	tha	in those	e spe	cified,	or bo	ots, É		
belting, gloves, and saddl	ery	and ha	rness	s .			914	77
Artificial leather goods	•	•	٠	•	•	•)		192
Total								
i viai · ·	•	•	•	•	•	•	914	447

In 1913 nearly 90 per cent of the imports came from Germany, amounting to $\pounds 882,000$. The corresponding figure in 1922 was $\pounds 320,000$. Nearly all of the small quantity of leather trunks and bags coming into the country came from Germany, which country also supplies two-thirds of the fancy leather goods ($\pounds 103,000$), France coming next with $\pounds 20,000$. No less than 97 per cent of the artificial leather goods ($\pounds 100,000$) came from Germany. Of the unspecified leather manufactures, over 50 per cent in 1922 came from the United States.

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The corresponding figures for exports are shown in Tables B 119, 120, 121, 122, 123, and the summary of these tables is as follows :---

,,, _,, _	5						1913 £(000)	1922 £(000)
Leather trunks and bags						• `	~ .	~136
Fancy leather goods .								202
Leather sports goods .						• 、		106
Artificial leather goods						• `	683	7
Leather manufactures other	than	thos	e spec	cified,	or bo	ots,		
belting, gloves, and saddle	ery ai	nd ha	rness			• ,		210
0.0								
Total							683	661

So far as values are concerned exports of these leather manufactures have practically been maintained at the pre-War level, and the inference to be drawn jointly from the import and export statistics is that the industry has developed in recent years. The export of trunks and bags is spread over the whole world, only one country (United States with $\pounds 49,000$) taking more than $\pounds 10,000$ worth of the total of $\pounds 136,000$ exported; nearly 60 per cent went to foreign countries. The leather fancy goods exported are also distributed over many countries, about half going to Empire countries. The United States was the chief customer in 1022 with $\pounds 46,000$, followed by Australia ($\pounds 31,000$), Canada ($\pounds 20,000$), France ($\pounds 19,000$), and New Zealand ($\pounds 17,000$).

The leather sports goods go principally to foreign countries (80 per cent), the United States taking f_{36} , coo (a large increase on the previous year) and France $f_{19,000}$ out of the total of $f_{106,000}$. Table B 123 shows that the exports of the unspecified leather manufactures are also distributed over many countries, France with $f_{28,000}$ out of a total of $f_{210,000}$ being first in importance.

This section can conveniently be closed by summarising the figures of imports and exports of all leather manufactures for 1913 and 1922 in order to obtain in one perspective the change in the general position regarding these manufactures.

					Imp	orts.	Exports.		
					1913 £(000)	1922 £(000)	1913 £(000)	1922 £(000)	
Boots and shoes .			•	•	800	929	4,194	2,826	
Gloves	•	•	•	•	1,534	1,046	370	135	
Belting	•	•	•	•	63	70	683	520	
Saddlery and harness	•	•	·	•	914	429	445	184	
Other leather goods	•	•	•	•			683	661	
m , 1									
Total .	•	•	·	•	3,311	2,474	6,375	4,326	

Taking regard to the increase in prices between 1913 and 1922, both imports and exports substantially diminished during the period covered, but it is clear that the exports diminished to a greater extent than imports. In 1913 there was a net excess of exports of over $\pounds_{3,000,000}$, but the corresponding figure for 1922 was less than $\pounds_{3,000,000}$.

IRELAND

It will be appropriate to refer to the Irish industry in this Section.

The rôle of Ireland in the leather industry of the Empire is mainly as a supplier of raw materials. Particulars of the pre-War and post-War cattle and sheep supplies are given in detail in Table B 13. Between 1913 and 1920 cattle increased in number from 4,930,000 to 5,020,000 (less than 2 per cent), while the number of sheep fell from 3,620,000 to 3,590,000.

A large proportion of Ireland's live stock is exported (mainly to Great Britain). In recent years this traffic has been very irregular, but the 1913 and 1919 figures are shown in Table B 125. It was estimated during the War that the annual slaughter of sheep and lambs was 1,000,000 of the former and 500,000 of the latter, the selection of the sheepskins being 50 per cent extras, 10 per cent firsts, 10 per cent seconds, and 30 per cent thirds; and of the lambskins, 50 per cent supers, 10 per cent firsts, and 40 per cent seconds.

The imports and exports of articles concerned with the leather industry into and from Ireland in 1913 and 1919 are shown in Tables B 125 and 126.

The exports of hides and skins which were $\pounds735,000$ in 1913 reached $\pounds1,360,000$ in 1919, and were $\pounds480,000$ in 1921. The exports of leather similarly rose from $\pounds55,000$ to $\pounds221,000$ and then fell to $\pounds38,000$ in 1921. Imports of leather rose from $\pounds565,000$ to $\pounds1,067,000$ and then fell to $\pounds654,000$ in 1921.

Mr. McCartney Filgate, who was Irish Controller of Hides and Leather during the War, records that there are six tanneries, whose output is almost entirely sole and harness leather, practically all the upper leather required being imported. Before the days of factories whole villages in Ireland were engaged on the manufacture of hand-sewn boots, but these have largely disappeared, though there are six substantial factories in the North now in existence. Saddlery for agricultural purposes is manufactured in a small way in many places, and there are two belting factories.

LEATHER, HIDES, AND SKINS

TABLE B 1

Imports of Hides and Skins into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

QUANTITIES

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	x9x3				1922			
Article.	From Empire Countries	From Foreign Countries	Total.	Per cent of Total retained	From Empire Countries,	From Foreign Countries	Total.	Per cent of 'l otal retained.
Calfskins, dry, cwt. (00) .	2,9	14,4	17,3	I	2,3	9,6	11,9	62
,, wet, cwt. (00) .	17,4	15,5	32,9	18	0,4	25,6	26,0	91
Hides, dry, cwt. (oo)	364,4	240,9	605,4	6 0	234,3	274,9	509,1	67
,, wet, cwt. (00)	223,9	574,4	798,4	73	131,7	431,6	563,3	88
Goatskins, No. (000)	10,049	2,046	12,095	30	8,209	516	8,725	31
Sheepskins, woolled, No. (000)	-	-			11,503	3,349	14,851	58
,, ,, cwt. (000)	645	89	734	57	630	127	757	61
,, pickled, No. (000)	6,373	1,161	7,534	11	3,554	1,024	4,578	11
", ", cwt. (00)					100,0	35,4	135,5	32

TABLE B 2

Imports of Hides and Skins into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

VALUE £(000)

				191	3		1922				
Article.			From Empire Countries,	From Foreign Countries,	Total	Per cent of Total retained	From Empire Countries.	From Foreign Countries.	Total.	Per cent of Total retained.	
Calfskins, dry .			14	120	134	2	9	53	62	50	
,, wet .		•	75	71	145	21	ź	149	151	90	
Hides, dry	•	•	1,549	1,005	2,554	56	873	1,018	1,891	71	
wet .	•	•	804	2,211	3,014	76	473	1,618	2,091	87	
Goatskins .	·	•	1,247	241	1,489	31	1,124	72	1,196	33	
Sheepskins, woolled	·	•	2,100	315	2,415	56	2,559	429	2,988	38	
,, pickled	·	•	568	131	699	20	362	102	464	ĭ9	
- ·		4				-	•			,	

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Imports of Tanning Materials into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

QUANTITIES

	1913				1922				
Article.	From Empire Countries,	From Foreign Countries,	Total	Per cent of Total retained	From Empire Countries	From Foreign Countries	Total,	Per cent of Total retained,	
Canning bark, cwt. (oo) . Extracts for tanning, cwt. (co) . Jambier, cwt. (oo) . Myrobalans, cwt. (oo) . Jumach, cwt. (oo) . Valonia ,, (oo) . Other tanng. materials, cwt. (oo) .	81,4 564,5 0,4	75,2 available 20,4 0,8 163,7 346,1 24,7	892,1 by qua: 101,7 565,2 164,1 346,1 32,9	24 ntity 92 96 89 99 77	560,4 164,1 70,5 503,0 1,4 8,9	63,1 769,8 15,0 2,6 104,4 108,7 30,2	623,3 933,9 85,5 505,6 104,5 110,1 39,0	82 87 92 97 99 96 88	

TABLE B 4

MPORTS OF TANNING MATERIALS INTO THE UNITED KINGDOM ACCORDING TO SOURCE OF ORIGIN, EMPIRE COUNTRY OR FOREIGN COUNTRY

VALUE £(000)

			1913				1922				
Article.		From Empire Countries,	From Foreign Countries	Total.	Per cent of Total retained.	From Empire Countries.	From Foreign Countries.	Total.	Per cent of Total retained		
'anning bark xtracts for tanning . ambier fyrobalans umach alonia ther tanning materials	· · ·	327 42 115 177 — 4	21 880 27 	348 923 142 177 83 164 17	21 97 89 97 89 98 76	276 183 117 183 1 5	21 789 24 1 71 64 21	297 972 141 184 71 65 27	81 83 91 98 99 97 89		
'otal tanning materials		665	1,188	1,854	81	765	991	1,757	86		

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LEATHER, HIDES, AND SKINS

TABLE B 5

Imports of Leather and Manufactured Skins into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

QUANTITIES

		191	3			192	2	
Article	From Empire Countries,	From Foreign Countries.	Total	Per cent of Total retained.	From Empire Countries	From Foreign Countries	Total	Per cent of Total retained
Rough-tanned calfskins, cwt. (00) Rough-tanned hides (includ-	11,1	2,3	13,4	99	5,7	0,3	6,0	95
ing sole leather, cwt. (00) .	302,7	458,2	760,9	98	181,0	153,1	34,2	93
Rough-tanned goatskins, cwt. (00)	75,6	1,7	77,3	1 6	33,7	1,2	34,9	56
,, ,, sheepskins, cwt. (00)	72,3	16,4	88,6	44	63,5	5,0	68,5	50
Other rough-tanned skins, cwt. (00)	0,7	5,9	6,7	76		0,7	0,7	87
Box calf, cwt. (oo)	-	46,8	46,8	99	1,4	33,8	35,2	98
Glace kid, cwt. (00)		47,9	48,0	91 91		30,4	30,5	93
Japanned leather, cwt. (00) .	0,2	19,4	19,7	93	1,4	17,6	19,0	93
Morocco, cwt. (00)	•	0,3	0,3	100	1		-	
Other dressed leather, cwt. (00)	11,8	102,5	114,4	91	^{۲,1} آ	66,5	67,7	97
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TABLE B 6

Imports of Leather and Manufactured Skins into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

VALUE £(000)

	1913				1932					
Article,	From Empire Countries,	From Foreign Countries	Total.	Per cent of Total retained,	From Empire Countries.	From Foreign Countries.	Total,	Per cent of Total retained.		
Rough-tanned calfskins.	87	18	105	99	55	3	58	97		
ing sole leather) Rough-tanned goatskins	1,992 943	1,957 16	3,949 959	98	1,283 678	921	2,204 689	93		
,, ,, sheepskins . Other rough-tanned skins .	701	118	819	35 36	854	11 65	919	44 51		
Box calf	4 1	29 1,196	33 1,197	67 98	т 63	10 1,495	10 1,558	82 96		
Glacé kid Japanned leather	2	1,576 600	1,578	88	3	2,026	2,028	91		
Morocco	5	12	614 12	90 90	99	1,012	1,110	91		
Other dressed leather	* 63	1,243	1,306	8 3	35 آر	2,115	2,149	95		

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IMPORTS OF LEATHER MANUFACTURES INTO THE UNITED KINGDOM ACCORDING TO SOURCE OF ORIGIN, EMPIRE COUNTRY OR FOREIGN COUNTRY

QUANTITIES

		x9x	3		1922			
Article.	From Empire Countries,	From Foreign Countries	Total.	Per cent of Total retained,	From Empire Countries.	From Foreign Countries.	Total,	Per cent of Total retained.
Leather gloves, doz. pairs (000)		1,474	1,474	86		448	448	88
pairs (000)	1 1	226 5,2	226 5,2	93 94	3	124 3,0	127 3,0	89 87

TABLE B 8

Imports of Leather Manufactures into the United Kingdom According to Source of Origin, Empire Country or Foreign Country

VALUE £(000)

			191	13		1922			
Article.		From Empire Countries.	From Foreign Countries	Total.	Per cent of Total retained.	From Empire Countries.	From Foreign Countries.	Total.	Per cent of Fotal retained.
eather gloves		-	1,800	1,860	86	2	1,205	1,207	87
,, boots and shoes		I	838	839	95	15	1,020	1,035	90
,, belting	•	-	67	67	95		87	87	80
ther leather manufactures	•		991	991	92	3	264	267	89

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LEATHER, HIDES, AND SKINS

TABLE B 9

UNITED KINGDOM. CENSUS OF PRODUCTION, 1907

OUTPUT BY TANNERS, CURRIERS, LEATHER DRESSERS, AND LEATHER BELTING

			,		MANU	JFACT	URERS						Value £
Leather, undr	essed (ínclu	ding t	annec	l hide	s and	skins).	15,2	Quantity 46,000 38,000 85,000	cwt. sq. ft.		8,102,00 136,00 450,00
,	Total l	leathe	r, und	lresse	d	•		•	•	• •	•	•	8,688,00
Leather, dress wise dres tawed ski	ssed—	ludin excep	g hide t var	s tawe nishe	ed, cui dan •	ried, d cu	or oth rried •	or	{44,	386,000 238,000 223,000	sq. ft.		3,001,00 1,289,00 1,733,00
,	Total l	leathe	r, dre	ssed	•			•		•	•	•	6,023,00
Leather, varni	shed,	japan	ned, o	r ena	melled	i.	•	•	{2,0	13,000 28,000 16,000	sq. ft.		175,00 100,00 24,00
	Total l	leathe	r, var	nished	ł, etc.	•		•	•	•	•	•	299,00
Machinery bel ,, acc Hat leather Leather laces	cessori			r ;					•	109,000	cwt.		1,194,00 114,00 89,00
Saddlery, harr		Id oth	er lea	ther g	oods	:	ż	:	:		•	:	45,00 73,00
Wool . Hair .	:	:	:	:	:	:	:	:		802,000 332,000		:	681,00 73,00
Hides and skin Machinery acc				:	·	:	·	·	•	•	•	•	230,00
Parchment an Waste produc	d vellu	ım	•	•	•	•	•	•		•	•	•	46,00 318,00
Other " Work done for			•	:	•	:	:	:	:		•	:	184,00
	r the ti Total	aue	•	•	•	•	•	•	•	·	•	•	204,00
	Local	•	•	•	·	•	·	•	·	·	•	•	13,342,00

Note.—There was an appreciable amount of duplication in the returns relating to undressed and to dressed leather, as leather sold by tanners in the undressed state fo dressing was returned by both seller and buyer in one form or the other. The tota quantity of leather tanned (whether subsequently dressed or not) in the United Kingdon was computed at :

1,535,000 cwt. 33,268,000 sq. ft. 1,176,000 doz. of skins

102

79

GREAT BRITAIN AND IRELAND

TABLE B 10

UNITED KINGDOM. CENSUS OF PRODUCTION, 1907 PERSONS EMPLOYED IN LEATHER AND ALLIED INDUSTRIES (See Note to Table B 11)

> Average No of Persons employed in Factories and Workshops.

A	verage No.	
lo	Outworkers.	

10

48

		Salaried Persons.								
Trade.	Males		Females		Males.		Females.		Males.	Females.
	Under 18 yrs. of age	Over 18 yrs of age.	Under 18 yrs. of age	Over 18 yrs of age.		18 yrs.		18 yrs		
llmongery ather trade (tanning	135	ı,444	2	37	7	131		8		
ind dressing)		23,119	452	979	156	1,939	19	128		
ddlery and harness . avelling bag and fancy	1,576	8,183	845	2,397	78	2,420	48	196	99	175
eather goods	593	2,512	1,032	1,840	125	537	51	115		
	4,422	35,258	2,331	5,253	366	5,027	118	447	9 9	175

TABLE B II

UNITED KINGDOM. CENSUS OF PRODUCTION, 1907 VALUE OF MATERIALS USED, OUTPUT, ETC., IN LEATHER AND ALLIED INDUSTRIES

Trade.	Gross Output Selling Value or Value of Work done.	Materials used. Cost.	Work given out. Amount paid to otherfirms.	Net Output. Excess of column 1 over columns 2 and 3.	Persons employed except out- workers.	Net output per person employed excluding outworkers	Horse power of engines at factories.
	£	£	£	1		- 1	4
llmongery .	2,201,000	2,054,000	~~~~	147,000	1,674	8้ำ	699
ather trade (tan-		517			-/-/4	5	
ning and dressing	18,289,000	14,843,000	61,000	3,385,000	28,910	117	22,609
ddlery and harness		17 107	,	3.3 37		•	
trade	2,233,000	1,136,000	20,000	1,077,000	15,743	68	1,814
avelling bag and					57715		· ·
ancy leather goods	1,271,000	747,000		524,000	6,805	77	362
v 0		-		J			J
	23,994,000	18,780,000	81,000	5,133,000	53,132	345	25,484
	5.2217			57-557	337.3	515	

NOTE.—The term "Leather Trade" used in the census is of wider significance than is usually understood, and embraces the manufacture of machinery belting; the figures of output also include the value of wool and pickled pelts handled by tanners who are also fellmongers. (See Table B 10.)

Great Britain

NUMBERS OF CATTLE, SHEEP AND HORSES, PRE-WAR AND 1922

(All figures in thousands.)

-	Engla	und.	Wales.		Scotland.		Great Britain.	
	Pre-War	June, 1922	Pre-War	June, 1922	Pre-War	June, 1922	- Pie-War	June, 1922
Cows and heifers . Bulls . Other cattle, 2 years and above . ,, ,, I year and under 2 ,, ,, under I year .	2,062 1,017 1,053 955	2,212 70 765 987 937	286 186 187	310 12 76 180 174	436 232 279 236	443 18 228 232 221	2,784 1,345 1,519 1,379	2,974 101 1,040 1,417 1,338
Total cattle	5,087	4,971	754	752	1,183	1,142	7,027	6,870
Ewes for breeding . Rams and ram-lambs . Other sheep, I year and above ,, ,, under I year .	5,563 2,882 5,970	4,020 109 1,571 4,473	1,495 763 1,291	1,408 43 5 ⁶ 7 1,247	2,971 1,271 2,762	2,815 80 1,030 2,734	10,120 4,916 10,022	8,301 232 3,109 8,480
Total sheep	14,415	10,173	3,549	3,265	7,004	6,659	25,058	20,122
Total horses .	1,245	1,181	161	160	205	217	1,441	1,308

TABLE B 13

Ireland

DETAILS OF SHEEP

	Sheep kepi for	breeding purposes.	Othe	r Sheep.			
Year.	Rams	Ewes.	I year old and up.	Under 1 year.	Total Number of Sheep		
1920	47,102	1,424,276	635,118	1,479,102	3,585,598		

DETAILS OF CATTLE, 1920

					Other Catile. I year old		Total
Year. 1920	Bulls. 41,994	Milch Cows. 1,470,668	Heifers in Calf. 106,797	2 years old and up 1,098,236	and under 2 years. 1,109,075	Under 1 year. 1,196,090	Number of Cattle. 5,022,860

NUMBERS OF LIVE STOCK

Year.	Horses.	Jennets.	Asses.	Cattle.	Sheep.	Pigs.	Goats.
1913	614,482	30,338	243,339	4,932,625	3,620,724	1,060,360	246,348
1920	624,266	27,111	226,553	5,022,860	3,585,598	982,418	244,914

SUMMARY OF STATISTICS COLLECTED WEEKLY IN 1917 AND 1918 REGARDING SUPPLIES OF CATTLE HIDES AND SKINS

Numbers in Various Classes Ox and Heifer-Hides

Number, 1917 . Number, 1918 .	90 lb. and up. 48,600 25,800	^{80–89} 1b 169,400 120,500	^{70–79} Ib 427,900 311,200	60–69 Ib. 625,300 471,400	50–59 Ib. 505,300 365,000	40 lb and under 186,100 123,000	Total. 1,962,600 1,416,900
			Cow-HII	DES			
Number, 1917 .	Over 60 lb 321,300	50-59 I 259,80	b. 50	1der 1b. 100 6	Total. 45,200	Bull Hides. 98,300	Casualty Hides.
Number, 1918.	212,900	215,50			01,400	80,400	98,900
			CALFSKI	18			
	17 lb and up.	9–16 lb.	Und 9 ll		otal.	Kips.	Horse- Hides.
Number, 1917 . Number, 1918 .	17,600 20,600	138,900 194,700			0,500 1,900	59,000 102,600	62,500 195,100

TABLE B 15

Summary of Statistics Collected Weekly in 1917 and 1918 Regarding Supplies of Cattle Hides and Skins

MONTILLY VARIATION IN NUMBERS

1917

Number of Hides and Skins.

Number of Hides and Skins.

	No of weeks	Ox and Heifer (000)	Cow (00)	Bull (00)	Calf (00)	No. of weeks	Ox and Heifer (000)	Cow (00)	Bull (00)	Calf (00)
anuary . Pebruary	4	142	44,8	6,9 8,7	30,3 28,2	4	118 104	49,2	5,9	55,0
Aarch .	4 5	135 171	49,2 59,9	12,5	46,0	4 5	130	42,7 52,1	7,2 10,5	45,5 85,4
ipril . Aay .	4 4	144 144	45,3 50,7	10,3 12,4	49,2 59,1	4 4	99 92	36,9 32,1	9,4 9,5	60,7 63,3
une . uly .	5 4	154 115	61,4 42,4	14,3 5,4	39,8 34,8	5 4	69 68	29,9 32,3	9,0 5,2	83,9 42,2
ugust . eptember	4 5	146 205	47,9 57,5	5,0 5,7	46,1 57,7	5 4	109 128	43,1 38,4	6,1 5,5	47,0 41,8
)ctober . Jovember	4 4	185 196	48,3 59,6	4,2 4,5	66,1 50,5	4 5	155	41,1 56,7	4,7 3,7	59,3 73,9
)ecember	5	227	78,1	8,4	42,7	4	136	46,9	3,7	53,9

UNITED KINGDOM. SHEEPSKIN STATISTICS, 1917-18

				Fellmongered Pelts Sold						
		Raw	Total No.		Sh	cep.			Lamba	
Weekly Averag for months	ge	Skins pur- chased.	of Fell- mongered Pelts sold	C Extras.	Firsts or Primes	Seconds or Light Primes.	Thirds or Belows.	Supers	Firsts or Primes	Seconds or Belows.
1917		doz.	doz,	doz.	doz	doz	doz	doz.	doz	doz.
July .		17,335	16,031	1,758	4,100	1,221	719	3,639	3,620	972
August		20,726	17,650	876	3,945	1,497	832	4,634	4,714	1,173
September		21,683	20,364	2,612	4,930	1,795	852	4,315	4,908	1,149
October		21,398	20,333	3,425	6,801	2,204	716	3,025	3,303	864
November	•	22,117	21,546	4,784	7,833	2,117	550	2,646	2,924	693
December	٠	18,485	18,472	3,637	7,304	2,175	569	2,042	2,134	608
1918										
January		17,740	17,151	3,901	7,048	1,930	555	1,674	1,606	438
February		9,073	15,632	3,150	6,935	1,984	610	1,275	1,203	474
March		9,738	9,781	1,960	4,399	1,201	520	588	692	421
April .	•	9,779	9,437	1,932	4,312	1,139	459	512	673	408
May .	•	8,381	8,639	1,809	3,813	973	594	469	577	404
June .	٠	10,138	8,316	1,428	2,246	868	1,193	1,117	858	606

TABLE B 17

Exports of Hides and Skins from the United Kingdom, According to Country of Destination, Empire Countries and Foreign Countries

	9	QUANTITIES					
		1913		1922			
	То	To		To	To		
	Empure	Foreign		Empire	Foreign		
Article.	Countries.	Countries.	Total	Countries.	Countries.	Total.	
Hides from imported cattle							
slaughtered in Ú.K., cwt. (00)	6,4	13,1	19,5		3,6	3,6	
All other hides and calfskins,	- 77	-3,-	- 315		3,*	2,0	
cwt. (00)	70.0	- 0	198,4		~~		
	12,9	185,5	190,4	7 , 1	134,0	141,1	
Sheep- and lambskins, woolled,							
cwt. (00)		3,7	3,7		8,4	8,4	
Sheep- and lambskins, No. (000)	Not a	vailable		I	331	332	
Other sheep- and lambskins, cwt.					55	55.4	
(00)	Not a	vailable			00 5	00 5	
Other sheep- and lambskins, No.	1101 4	vallabic			90,5	90,5	
	•	•	~		~	•	
(000)	89	8,405	8,494		4,384	4,3 ⁸ 4	
	Va	lues.					
Hides from imported cattle							
slaughtered in U.K.	28	16	- .		16	16	
All other hides and calfskins		46	74				
	50	592	642	34	392	426	
Sheep- and lambskins, woolled .		14	14	-	31	31	
Other sheep- and lambskins .	4	497	501		267	267	
-	•	.,,	J				

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GREAT BRITAIN AND IRELAND

TABLE B 18

UNITED KINGDOM TRANSIT TRADE IN HIDES, 1913 AND 1921

value f(000)

								1913		1921	
Foreign Country of Origin.								Imported.	Retained.	Imported.	Retained
Russia								580	93	30	ro
Norway								15	12	4	4
Denmark								41	25	15	15
Germany								164	152	ĩ	I
German W	est A	frica						13	ĭ3		
,, E	ast Af	rica						3	2	-	
Holland								121	117	86	86
Tava .								7	7	24	23
Belgium								51	48	16	15
France								319	262	230	218
French We	est Afr	rica						68	57		
" So	malila	nd						68	68	4	4
Madagasca			÷	÷			÷	19	16	11	<u> </u>
Switzerlan										17	17
Portugal	-						÷	75	28	51	25
Portuguese	e East	Africa						4	4	3	3
Italy .								528	504	192	190
Italian Eas	t Afri	са		•				3	3		
Egypt		cu -	•	•	•	·	÷	27	16	†	t
Siam .	•	•	•	·	•	•	•	~/	4	1	<u> </u>
China	•	•	•	•	•	•		95	48	51	22
Japan	·	·	·	·	•	•	•	95	9	2	2
United Sta	ites	·	•	•	•	·	•	33	25	103	101
Costa Rica		·	•	•	•	•	•	33 I	~5 I		
Colombia	•	•	•	•	•	·	·	40	12	13	10
Venezuela	•	•	•	•	•	·	•	T I	1	-3	
Ecuador	•	•	·	·	•	·	•	22	15	9	5
Chile	•	•	•	•		•	•	Ĩ4	10	46	29
Brazil	·	•	•	•	•	·	•	69	39	226	142
Uruguay	·	·	•	•	·	•	•	9	39 7	202	158
Argentine	·	·	•	•	•	•	•	882	861	1,157	977
mgentine		·	·	•	•	•	•	004	001	-,-5/	311
Total	Coun	tries st	ated	ι.	•	·	٠	3,288	2,459	2,496	2,057
Percer	ntage	retain	ed fi	rom	stated	Fore	eign				
	intries		•	•	•	•	•		76		82

† Egypt fell under the head of "Foreign Country" in 1913, but "Empire Country" in 1921.

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TABLE B 18-continued.

VALUE £ (000).

						1913		1921		
Empire Country of Origin							Imported	Retained.	Imported.	Retained
Channel Islands							4	4	8	8
Malta .							6	4 6	I	I
Egypt .	•						†	†	3	2
Gambia .							27		6	
Gold Coast							20	10		
Nigeria .	•		•				82	24	131	69
Cape of Good H	lope		•			•	468	82	149	
Natal .							357	107	204	168
Zanzibar .	•	•					2	2		
Kenya .	•	•	•	•	•	•	162	153	69	
Uganda .	•	•			•		39	38		
Aden .				•	•	•	49	36	28	20
India .	•	•			•	•	351	161	272	
Straits Settleme	nts		•		•	•	135	100	32	16
Hong-Kong	•		•		•	•	4	3	23	21
Australia .	•				•		682	469	232	182
New Zealand	•				•	•	24	I	8o	66
British West Ind	lies	•	•				18	10	18	16
" Guiana	•	·	·	•	·	·	3	3	3	3
Total Coun	tries a	stated	•		•	•	2,433	1,209	1,259	572
Percentage		ned fr	rom	stated	Emp	oire		50		
Countries	•	•	•	•	•	•		5	B alanta	45

† Egypt fell under the head of "Foreign Country" in 1913, but "Empire Country" in 1921.

GREAT BRITAIN AND IRELAND

TABLE B 19

UNITED KINGDOM TRANSIT TRADE IN GOATSKINS, 1913 AND 1921

VALUE £(000)

			19	13	1921			
Foreign Country	of O	rigin.	-		Imported.	Retained.	Imported	Retained.
France					15	4	5	5
French West Africa							2	2
Turkey					9	6	i	
Egypt					ó	3	+	†
Morocco					36	4	ŗ	ŗ
China					28	2	2	
United States	•	•		•	7	7	48	48
Total Countries stated	•			•	101	26	58	56
Percentage retained fr	om s	tated I	Foreig	n		-6	4	
Countries	·	•	•	•		26		97
·					-		19	
Empire Country	of 01	imn			19	13	19	21
Empire Country	01 01	igin.			Imported.	Retained.	Imported.	Retained.
_ ``								
Egypt	·	•	•	•	t	†	3	I
Nigeria	٠	•	•	·	13	14	45	9
Cape of Good Hope .	•	·	•	•	411	166	135	95
Natal	•	•	•	•	27	27	14	14
Zanzibar	•	•	•	•	6	5	-	
Kenya	·	•		•	12		17	10
Aden	•	•	•	•	82	20	52	9
India	·	•	·	•	686	135	376	25
Total Countries stated						- 6	1	-6-
rotar Countries stated	•	•	•	,	1,237	367	642	163

† Egypt fell under the head of "Foreign Country" in 1913, but "Empire Country" in 1921.

LEATHER, HIDES, AND SKINS

TABLE B 20

UNITED KINGDOM TRANSIT TRADE IN SHEEP AND LAMBSKINS (WOOLLED AND PICKLED), 1913 AND 1921

VALUE £ (000)

- Foreign Country of Origin.							19	13	1921		
	Fo	reign C	ountr	yof O. -	rigin.			Imported.	Retained.	Imported.	Retained
Russia								57	3	40	36
Spain	•	•	•	•	•	•	•	52		28	28
Egypt	•	•	•	•	•	•	·	28	19	†	1
Morocco	•	•	•	•	•	•	•	7			
Chile	•	•	•	•	•	•	•	135	80	146	69
Argentine	·	·	·	·	•	·	•	39	34	36	23
Total	Cou	ntries	state	d.	•	•	•	318	136	250	156
Percer	ntage	retai	ned	from	stated	Forei	gn				
	intrie		•	•	•	•	٠.		43		62
	E.	apare C		· of Or				19	13	192	-
	101	upne o	ountry	01 01	.ıgın.			Imported	Retained.	Imported.	Retained
Egypt					•			†	t	6	6
Cape of G	l boc	Hope						807	323	581	170
Natal		÷						159	156	16g	158
Aden								92	3	105	76
Mesopotan	na									лĭ	10
India								23		34	
Australia								020	590	479	222
New Zeala	nđ							642	177	367	180
Falkland Is	sland	ls .	•	•	•	•		17	17	3*7	3
Total	Cour	ntries	stated	ł.			•	2,660	1,266	1,760	825
	itage ntrie		ned •	from •	stated	Empi •	re •		48		47

 \dagger Egypt fell under the head of " Foreign Country " in 1913, but " Empire Country " in 1921.

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UNITED KINGDOM

Consumption of Vegetable Tanning Materials in Great Britain and Ireland Empire countries

	0			1913			1922	
Material.	Country of Origin,	Tanning Con- teni.	Weight Tons.	Tanning Units.	Value.	Weight.	Tanning Units.	Value.
Wattle bark . Myrobalans . Wattle extract . Gambier .	South Africa India South Africa Straits Settle-	Per cent 34 32 60	10,720 27,160 		80,000 171,000 	25,500 24,570 6,500	8,670 7,860 3,900	£ 242,000 180,000 149,000
Larch bark . Oak bark .	ments Gt. Britain . Gt. Britain &	36 10	4,680 800		130,000 } ^{60,000}	3,950 800	1,420 80	139,000 } ^{70,000}
Myrobalan extract	Ireland .	11 60 (solid)	12,000	1,320	J	10,000	1,100	J
3 3 1 3	b 7	26 (liquid)	1,200	560	13,000	1,400	650	27,000
Hemlock extract Miscellaneous	Canada .	60 60	300	180	4,000	300	180	6,000
materials . Miscellaneous			400	200	4,000	600	300	7,000
extracts .			2,000	1,000	25,000			
Total : Empire Countries .			59,260	17,500	487,000	73,620	24,160	820,000
		FOREI	GN COU	NTRIES	;	-		
Chestnut extract """" Quebracho " Sumach Valonia """, "", "", "", "", "", "", "", "", ""	United States France . Italy Argentine . Italy Turkey and Greece . Turkey .	29 27 27 63 28 31 64	4,900 35,800 7,000 8,100 7,300 17,100 1,100	1,450 9,580 1,900 5,100 2,040 5,310 700	46,000 430,000 88,000 142,000 74,000 161,000 26,000	500 18,600 6,900 10,700 5,150 5,300 460	150 5,020 1,860 6,740 1,440 1,640 300	13,000 335,000 137,000 259,000 71,000 63,000 16,000
Algarobilla Miscellaneous materials Miscellaneous extracts	Chile	47	650 1,000	200 300	6,000 14,000	900 1,300 1,100	420 400 330	13,000 16,000 26,000
Total : Foreign Countries	· · ·		82,950	26,580	987,000	50,910	18,300	949,000
Total		I	42,210	44,080	1,474,000	124,530	42,460 :	1,769,000

LEATHER, HIDES, AND SKINS

TABLE B 22

Imports of Raw Hides and Skins, Leather, etc., into Great Britain by Ports

QUANTITIES

Commodity.		All Ports.		Liverpool.		Lor	London.		Bristol. Hu		ill. Glasgow.		South- ampton.		
		1913	1921	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921
les, cwt. (000) .		1,453		535	511	455	235 27	65	15 2	202 14	27	16 2	10	118	57
atskins, No. (000)	:	100 12,095	4,456				2,296	†	ť	474	29	ť	ţ	2,113	549
,, (per cent) ther, cwt. (000)	:	100 1,175		26 317	35 56	50 577	51 270	† 53	t 4	4 5	1 2	† 33	† 14	18 13	12 3
" (per cent)	٠	100	100	27	14	49	70	5	I		I	3	4	Ţ	I

† Not known.

TABLE B 23

IMPORTS OF RAW HIDES AND SKINS, LEATHER, ETC., INTO GREAT BRITAIN BY PORTS

VALUE £ (000)

Commodity.	All Ports.		Liverpool.		London,		Bristol.		Hull.		Glasgow.		South- ampton.	
	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921
ss	5,847 100 3,114 100 1,489 100 10,572 100	100 2,089 100 719 100	40 172 6 374 25	60 120 6 260 36	1,890 32 2,206 71 644 43 5,563 53	26 1,376 66 334 46	4	67 2 † † † 1 30	600 10 58 2 48 3 60 1	102 3 72 3 1 76 1	54 1 † 1 216 2	45 1 † † 134 2	486 8 632 20 369 25 492 4	236 6 493 23 121 17 197 2
ining	1,408 100	1,407 100	646 46	1,039 74	† †	† †	46 3	29 2	48 3	<u>76</u>	96 7	37 3	† †	† †

† Not known.

UNITED KINGDOM

PRODUCTION OF SOLE LEATHER IN 1917

(a) Vegetable Tanned Bends.

		Na	tive.	Wet-salled.		Drv and o	lrv-salted.	Total		
Neight of bend.		No (000)	Tons.	No. (000)) Tons.	No. (000)	Tons	No (000) Tons.	
Under 8 lb.		82	257	48	150	852	2,670	982	3,077	
8–10 lb.		153	614	128	513	801	3,215	1,082	4,342	
10–12 lb.	•	309	1,518	405	1,987	606	2,970	1,320	6,475	
12–14 lb.		346	2,006	710	4,125	279	1,615	1,335	7,746	
14–16 lb.	•	314	2,108	971	6,510	135	900	1,420	9,518	
Over 16 lb.	•	87	657	575	4,370	41	310	703	5,337	
Total		1,291	7,160	2,837	17,655	2,714	11,680	6,842	36,495	

(b) Chrome Tanned Bends.

		Unde	r 7 110n.	7 iron	and over.	Total		
		No.	Tons.	No	Tons.	No.	Tons.	
Il classes	•	98,600	310	105,400	480	204,000	790	

(c) Struck Rolled and Pinned Shoulders.

		Under	б iron,	б пог	and over	Total.		
		No	Tons	No	Tons.	No.	Tons.	
ll classes	•	1,220,000	3,050	2,020,000	3,420	3,240,000	6,470	

(d) Struck Rolled and Pinned Bellies.

		Under 5	iron	5 iron	and over.	Total.		
		No.	Tons,	No.	Tons	No.	Tons.	
ll classes	•	1,720,000	3,820	5,050,000	14,030	6,770,000	17,850	

Summary.

		Total.	Native and wet-salted bends over 12 lb	Other vegetable tanned_bends.	Chrome bends.	Shoulders.	Bellics.
umber . ons	:	66,605	3,003,000 19,876	3,836,000 16,619	204,000 790	3,240,000 11,47 0	6,770,000 17,850

UNITED STATES DETAILS OF LEATHER EXPORTED TO UNITED KINGDOM

		QUANTITIE Unit	S 1913 1920 1921
Leather for belting		lb.	Not available 240 381
Carriage and upholstery leather .			Not available by quantity
Glove leather		_	
Patent ,,	•	ft.	Not available 4,231,915 8,449,901
Sole ",		1Ь.	31,041,728 8,060,178 5,001,542
Calf and kip upper leather		ft.	1,840,731 3,299,257 6,139,578
Goat and kid ,, "		ft.	43,889,909 25,571,316 14,058,553
Cattle sides, grain and finished spl	ts.	,	Not available 4,903,994 1,864,175
,, wax and rough splits		іь.	,, 2,356,559 858,478
All other upper leather			Not available by quantity
,, leather			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
Children's boots and shoes		pairs	27,594 11,107 2,633
Men's ,, ,		- ,,	306,564 224,709 26,727
Women's ", "		,,	254,219 496,697 127,962
Gloves		doz. pairs	Not available 17,537 124
Slippers		pairs	4,143 1,496 6,981
Harness and saddles		-	Not available by quantity
Leather belting		lb.	Not available 255,023 50,334
All other leather manufactures .			Not available by quantity

TABLE B 26

UNITED STATES DETAILS OF LEATHER EXPORTED TO UNITED KINGDOM

VALUE (DOLLARS)

				- actually		
			•	1913	1920	1921
			•	77,138	284	345
Carriage and upholstery leather					8,629	3,297
Glove leather					55,259	11,277
Patent ,,				629,498	3,217,739	2,679,365
Sole leather				7,185,405	3,954,984	1,397,990
Calf and kip upper leather				471,688	2,542,046	2,239,342
Goat and kid ,, ,, .				7,063,804	15,867,868	3,919,260
Cattle sides, grain and finished	splits				1,570,088	490,938
" " wax and rough spl	ts				1,062,966	226,803
All other upper leather .				3,479,044	1,532,183	271,088
", leather				850,699		256,253
Children's boots and shoes					28,386	3,316
Men's ", " .						126,247
						530,047
C1					325,620	2,169
Harness and saddles				11,494	6,865	2,946
Shippers					2,184	8,848
Leather belting						93,269
All other leather manufactures				279,101		284,747
Total			•	21,397,554	37,453,862	12,547,547
	Glove leather	Carriage and upholstery leather . Glove leather Sole leather Sole leather Calf and kip upper leather . Goat and kid " " . Cattle sides, grain and finished splits " " wax and rough splits All other upper leather " " leather Children's boots and shoes . Men's " " . Gloves Harness and saddles . Shippers Leather belting . All other leather manufactures .	Leather for belting	Leather for belting	Leather for belting 1913 Carriage and upholstery leather 6,142 Glove leather 2,516 Patent 2,516 Patent 7,158,405 Calf and kip upper leather 7,168,405 Calf and kin 7,063,804 Catle sides, grain and finished splits — " wax and rough splits — All other upper leather 3,479,044 — " " 526,999 Children's boots and shoes 22,920 Men's " 527,970 Gloves — — Harness and saddles — — All other leather manufactures 279,101	Leather for beltingfor a statefor a stateCarriage and upholstery leather $77,138$ 284 Carriage and upholstery leather $6,142$ $8,629$ Glove leather $2,516$ $55,259$ Patent $$ $2,516$ Sole leather $$ $7,185,405$ Sole leather $$ $7,185,405$ Calf and kip upper leather $471,688$ $2,542,046$ Goat and kid $$ $$ $7,063,804$ If and kin upper leather $$ $7,063,804$ $15,867,868$ Cattle sides, grain and finished splits $$ $$ $1,052,066$ All other upper leather $$ $3,479,044$ $1,532,183$ $$ $$ $$ $782,970$ $3,037,635$ Gloves $$ $$ $$ $22,920$ $28,386$ Men's $$ $$ $$ $$ $23,020$ $28,326$ Harness and saddles $$ $$ $$ $$ $32,620$ Harness and saddles $$ $$ $$ $$ $$ Leather belting $$ $$ $$ $$ $$ Harness and saddles $$ $$ $$ $$ $$ Harness and saddles $$ $$ $$ $$ $$ All other leather manufactures $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ <td< td=""></td<>

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XPORTS OF LEATHER FROM UNITED KINGDOM ACCORDING TO COUNTRY OF DESTINATION, EMPIRE COUNTRY OF FOREIGN COUNTRY

	QUANTITIES						
Artucle ole leather, cwt. (00)	To Empire Countries.	1913 To Foreign Countries.		To Empire Countrics. 9,1	1922 To Foreign Countries 58,0	Total 67,1	
(00) Indressed calf leather, cwt. (00)				7	48,8 8	49,5 8	
,, kip leather, cwt. (oo) . ' ,, goat leather, cwt. (oo) .	22,6	117,6	140,2		4,4	4,4	
" sheep leather, cwt. (00)				r	0,3 11,5	0,3 11,6	
,, other sorts, cwt. (00) . , itent and enamelled leather, cwt.				3,5	26,6	30,1	
(00)	1,1	2,9	4,0	8	2,3	3,1	
)x calf, cwt. (oo)				3,3	7,6	10,9	
lacé kid, cwt. (00)				9	1,3	2,2	
her upper leather, cwt. (00) . ressed hide calf and kip (not for		0		5,5	20,6	26,1	
upper leather), cwt. (oo) ' 'essed sheep, goat, and kid (not for	24,1	87,4	111,5	1,2	2,6	3,9	
upper leather), cwt. (00)				1,1	5,3	6,4	
her dressed leather, cwt. (00) .				2,5	11,6	14,1	

TABLE B 28

PORTS OF LEATHER FROM UNITED KINGDOM ACCORDING TO COUNTRY OF DESTINATION, Empire Country or Foreign Country

						VALUE	£(000)		
					1913			1922	
					To Foreign		To Empire	To Foreign	
Article.				Countries.	Countries.	Total.	Countries	Countries.	Total
e leather .	•	•	• 1				120	581	701
dressed ox and cow	leath	er	.				11	463	474
dressed calf leather			.				I	8	9
", kip "	•	•	.)	189	1,054	1,243		33	33
,, goat ,,			•				-	9	9
" sheep "							2	186	188
,, other sorts			• •				48	272	320
ent and enamelled l	eathe	r		22	70	92	34	111	145
calf			· `			-	34 80	164	244
cé kid							50	72	122
er upper leather							97	449	546
ssed hide, calf, and	kip ((not fo	or .						•••
pper leather) .		•	• '	358	1,774	2,132	28	72	100
ssed sheep, goat, an	d kid	(not fo	or					•	
oper leather).							97	335	432
er dressed leather			۰,				60	367	427
			1	-				• •	• •
Total				569	2,898	3,467	628	3,122	3,750
				5.9		J/T*1		J,	5775-

LEATHER, HIDES, AND SKINS

TABLE B 29

Exports of Leather Manufactures from United Kingdom According to Country of Destination, Empire Country or Foreign Country

	QUANTITIES							
	1913		1922					
	To To Empire Foreign	To Empire	To Foreign					
Article.		otal. Countries	Countries. Total.					
Boots, men's, doz. pairs (000) .)							
,, women and children's, doz.	} 1,045 408 I	,453 120	67 187					
pairs (000)	}	226	79 305					
Leather apparel	Figures of quantities	not available						
Gloves, doz. pairs (000)	93 136 2	29 17	15 32					
Belting, cwt. (00)		48,9 8,8	8,1 16,9					
Saddlery and harness, cwt. (00) .	Not available	9,5	2,0 11,5					

TABLE B 30

Exports of Leather Manufactures from United Kingdom According to Country of Destination, Empire Country or Foreign Country

				value f_{000}							
				1913				1922			
Article.				To Empire Countries.	To Foreign Countries.	Total.	To Empire Countries.	To Foreign Countries.	Total.		
Boots, men's . ,, women and chil	dren	's	:}	2,634	1,560	4,194	873 1,047	557 348	1,430 1,395		
Leather apparel .	•	•		Include	d in Uner	numerate	d 14	51	65		
Gloves .	•	•	•	141	229	370	61	74	135		
Belting	•			264	419	683	289	231	520		
Saddlery and harness				267	179	446	112	72	184		
Trunks, bags, and solid	leatl	her g	roods	Include	ed in Úner	umerated	1 59	77	136		
Fancy leather goods		•	•	,,	"	,,	III	91	202		
Leather sports "				,,	,,	,,	22	Ś 4	106		
Unenumerated leather	good	ls	•	349	334	<i>6</i> 83	96	114	210		
Total	•			3,655	2,721	6,376	2,684	1,699	4,383		

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IMPORTS OF WET CALFSKINS

- Fotal Imports: 32,942 cwt. (f,145,451) in 1913, 25,982 cwt. (f,151,035) in 1922.
- From Empire Countries : 17,405 cwt. (£74,665) in 1913, 362 cwt. (£1,870) in 1022.

Australia): 16,398 cwt. (£71,374) in 1913, 186 cwt. (£750) in 1922.

From Foreign Countries : 15,537 cwt. (£70,786) in 1913, 25,620 cwt. (£149,165) in 1922.

Russia): 5,720 cwt. (£25,125) in 1913, not known in 1922.

Denmark) : 355 cwt. (£1,091) in 1913, 995 cwt. (£5,016) in 1922.

Netherlands): 886 cwt. (£4,093) in 1913, 1,973 cwt. (£10,395) in 1922.

Belgium): 1,253 cwt. (£7,431) in 1913, 279 cwt. (£1,366) in 1922.

France): 5,661 cwt. (f.26,717) in 1913, 13,643 cwt. (f.86,007) in 1922.

Italy): Not known in 1913, 3,186 cwt. (£20,722) in 1922.

United States of America): 65 cwt. (£200) in 1913, 3,403 cwt. (£14,127) in 1922.

TABLE B 32

IMPORTS OF WET HIDES

- 'otal Imports: 798,381 cwt. (£3,014,381) in 1913, 563,283 cwt. (£2,090,157) in 1022.
- rom Empire Countries: 223,936 cwt. (£803,718) in 1913, 131,677 cwt. (£472,013) in 1922.
- Cape of Good Hope): 10,458 cwt. (£37,354) in 1913, 4,138 cwt. (£14,125) in 1922.

Natal): 57,660 cwt. (£205,529) in 1913, 42,113 cwt. (£146,484) in 1922.

British India): 28,622 cwt. (£84,054) in 1913, 194 cwt. (£948) in 1922.

Australia): 113,331 cwt. (£435,464) in 1913, 56,079 cwt. (£213,224) in 1922.

New Zealand): 1,458 cwt. (£5,033) in 1913, 13,220 cwt. (£42,091) in 1922.

- British West India Islands): 5,645 cwt. (£17,576) in 1913, 2,962 cwt. (£9,446) in 1922.
- 'rom Foreign Countries: 574,445 cwt. (£2,210,663) in 1913, 431,606 cwt. (f,1,618,144) in 1922.
- Russia) : 92,170 cwt. (£259,774) in 1913, not known in 1922. Sweden) : 11,167 cwt. (£29,523) in 1913, 4 cwt. (£18) in 1922.

Vorway): 2,284 cwt. (£6,903) in 1913, 1,616 cwt. (£2,405) in 1922. Denmark): 13,680 cwt. (£32,678) in 1913, 325 cwt. (£1,455) in 1922.

Germany) : 27,610 cwt. (£94,588) in 1913, not known in 1922.

Vetherlands): 19,532 cwt. (£66,879) in 1913, 48,087 cwt. (£152,180) in 1922.

Belgium): 10,007 cwt. (£33,691) in 1913, 8,295 cwt. (£37,996) in 1922.

France): 36,754 cwt. (£122,879) in 1913, 21,675 cwt. (£107,291) in 1922.

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(Portugal): 20,759 cwt. (£73,083) in 1913, 108 cwt. (£420) in 1922. (Italy): 119,702 cwt. (£513,509) in 1913, 58,290 cwt. (£270,574) in 1922. (China): 8,908 cwt. (£35,869) in 1913, 416 cwt. (£2,070) in 1922. (United States): 8,800 cwt. (£20,966) m 1913, 51,058 cwt. (£126,833) in 1922. (Chile): 3,414 cwt. (£11,687) in 1913, 17,964 cwt. (£60,421) in 1922. (Brazil): 24 cwt. (£90) in 1913, 44,546 cwt. (£150,721) in 1922. (Uruguay): 1,317 cwt. (£5,930) in 1913, 33,749 cwt. (£111,328) in 1922. (Argentine): 186,780 cwt. (£868,851) in 1913, 108,575 cwt. (£443,844) in 1922.

TABLE B 33

EXPORTS OF IMPORTED WET HIDES

Total Exports : 219,165 cwt. (£734,594) in 1913, 68,186 cwt. (£266,777) in 1922. To Empire Countries : 15,593 cwt. (£66,394) in 1913, 4,061 cwt. (£23,155) in 1022.

To Foreign Countries : 203,572 cwt. (£668,200) in 1913, 64,125 cwt. (£243,622) in 1022.

TABLE B 34

EXPORTS OF IMPORTED WET CALFSKINS

Total Exports : 26,996 cwt. (£114,076) in 1913, 2,276 cwt. (£15,005) in 1922.

- To Empire Countries : 1,375 cwt. (£5,497) in 1913, 1,270 cwt. (£9,352) in 1922.
- To Foreign Countries : 25,621 cwt. (£108,579) in 1913, 1,006 cwt. (£5,653) in 1922.

(United States): 22,513 cwt. (£97,016) in 1913, 480 cwt. (£2,530) in 1922.

TABLE B 35

IMPORTS OF DRY AND DRY-SALTED CALFSKINS

Total Imports : 17,313 cwt. (£134,257) in 1913, 11,945 cwt. (£62,154) in 1922. From Empire Countries : 2,878 cwt. (£14,429) in 1913, 2,312 cwt. (£9,144)

(Cape of Good Hope): 637 cwt. (£3,732) in 1913, 193 cwt. (£965) in 1922.

 $(Kenya \ Colony)$: 552 cwt. $(f_{2},532)$ in 1913, 69 cwt. $(f_{2}50)$ in 1922. (British India): 507 cwt. $(f_{2},048)$ in 1913, 1,540 cwt. $(f_{5},468)$ in 1922.

(New South Wales): 419 cwt. (£2,151) in 1913, not known in 1922.

From Foreign Countries : 14,435 cwt. (£119,828) in 1913, 9,633 cwt. (£53,010) in 1922.

(Russia): 8,847 cwt. (£87,250) in 1913, 3,624 cwt. (£23,614) in 1922. (Sweden): 17 cwt. (£182) in 1913, 136 cwt. (£826) in 1922.

(France): 1,685 cwt. (£9,766) in 1913, 632 cwt. (£4,221) in 1922.

(China): 580 cwt. (£2,229) in 1913, 210 cwt. (£1,019) in 1922.

IMPORTS OF DRY AND DRY-SALTED HIDES

- Total Imports : 605,376 cwt. (£2,554,210) in 1913, 508,076 cwt. (£1,891,161) in 1022.
- From Empire Countries : 364,446 cwt. (£1,549,405) in 1913, 233,232 cwt. (f, 873, 182) in 1922.
- (Egypt): See below for 1913, 107 cwt. (£343) in 1922.
- (British West Africa): 31,322 cwt. (£126,553) in 1913, 9,707 cwt. (£33,802) in
- (Cape of Good Hope): 90,878 cwt. (£427,358) in 1913, 49,155 cwt. (£192,970) in 1022.
- (Natal): 32,831 cwt. (£151,169) in 1913, 29,094 cwt. (£114,083) in 1922.
- (British East Africa): 44,172 cwt. (£200,910) in 1913, 33,074 cwt. (£108,443) in 1022.
- (Aden and Dependencies): 10,339 cwt. (f.48,692) in 1913, 4,602 cwt. (f.14,507) in 1022.
- (British Índia): 70,554 cwt. (£263,951) in 1913, 50,145 cwt. (£200,642) in 1922.
- (Straits Settlements): 40,371 cwt. (£134,501) in 1913, 8,481 cwt. (£25,327) in 1022.
- (Hong-Kong): 978 cwt. (£3,004) in 1913, 3,938 cwt. (£25,119) in 1922.
- (Australia): 36,253 cwt. (£171,707) in 1913, 34,155 cwt. (£120,835) in 1922.
- From Foreign Countries: 240,930 cwt. (£1,004,805) in 1913, 274,844 cwt. (f, 1, 017, 979) in 1922.
- (Russia): 57,300 cwt. (£207,761) in 1913, 44,946 cwt. (£142,108) in 1922.
- (Germany): 16,669 cwt. (£66,600) in 1913, not known in 1922.
- (Netherlands): 13,462 cwt. (£46,998) in 1913, 10,215 cwt. (£32,578) in 1922.
- (Java): 2,034 cwt. (£7,070) in 1913, 4,693 cwt. (£18,879) in 1922.
- (Belgium): 2,360 cwt. (£10,046) in 1913, 16 cwt. (£75) in 1922.
- (France): 36,393 cwt. (£159,841) in 1913, 10,492 cwt. (£30,935) in 1922. (French West Africa): 13,350 cwt. (£68,139) in 1913, not known in 1922.
- (French Somaliland): 13,045 cwt. (£67,544) in 1913, 3,031 cwt. (£8,751) in 1922. (Madagascar): 4,717 cwt. (£18,589) in 1913, 7,806 cwt. (£25,390) in 1922.
- (French Indo-China): 16,180 cwt. (£49,237) in 1913, 1,100 cwt. (£4,699) in 1922.

(Egypt): 6,055 cwt. (£23,207) in 1913, see above for 1922.

- (China): 11,315 cwt. (£50,159) in 1913, 5,191 cwt. (£32,774) in 1922.
- (United States): 1,472 cwt. (£5,617) in 1913, 43,667 cwt. (£179,347) in 1922.

- Colombia: 3, 79, 547 ($f_{22}, 567$) in 1913, 43, 507 (w.: $(f_{17}, 547)$ in 1922. (*Colombia*): 8, 709 (wt. ($f_{42}, 6007$) in 1913, 9, 159 (wt. ($f_{37}, 927$) in 1922. (*Ecuador*): 4,950 (wt. ($f_{22}, 612$) in 1913, 7, 156 (wt. ($f_{28}, 897$) in 1922. (*Peru*): 636 (wt. ($f_{25}, 574$) in 1913, 9, 186 (wt. ($f_{30}, 439$) in 1922. (*Brazil*): 11,546 (wt. ($f_{50}, 369$) in 1913, 21,091 (wt. ($f_{38}, 724$) in 1922.
- (Uruguay): 220 cwt. (£1,200) in 1913, 16,384 cwt. (£63,485) in 1922.

(Argentine): 2,538 cwt. (£12,701) in 1913, 65,662 cwt. (£234,709) in 1922.

EXPORTS OF IMPORTED DRY AND DRY-SALTED CALFSKINS

Total Exports : 17,096 cwt. (£132,169) in 1913, 4,544 cwt. (£30,390) in 1922.

To Empire Countries : 934 cwt. (£4,673) in 1913, none in 1922.

To Foreign Countries : 16,162 cwt. (£127,496) in 1913, 4,544 cwt. (£30,390) in 1922.

TABLE B 38

EXPORTS OF IMPORTED DRY AND DRY-SALTED HIDES

Total Exports : 245,622 cwt. (£1,130,871) in 1913, 168,148 cwt. (£544,423) in

- To Empire Countries : 24,121 cwt. (£124,721) in 1913, 1,652 cwt. (£8,013) in 1922.
- To Foreign Countries: 221,501 cwt. (£1,006,150) in 1913, 166,496 cwt. (£536,410) in 1922.

TABLE B 39

IMPORTS OF RAW SHEEP- AND LAMBSKINS, WITH WOOL ON.

- Total Imports : 734,484 cwt. (£2,415,267) in 1913, (14,851,406 skins) 757,386 cwt. (£2,988,090) in 1922.
- From Empire Countries : 645,277 cwt. (£2,100,178) in 1913, (11,502,901 skins) 630,178 cwt. (£2,558,928) in 1922.
- (Cape of Good Hope): 244,022 cwt. (£806,763) in 1913, (4,830,021 skins) 244,693 cwt. (£970,127) in 1922.
- (Natal): 49,204 cwt. (£159,337) in 1913, (1,232,297 skins) 64,322 cwt. (£257,253) in 1922.
- (Aden and Dependencies): 13,327 cwt. (£85,572) in 1913, (886,714 skins) 13,181 cwt. (£105,833) in 1922.
- (British India): 5,729 cwt. (£16,349) in 1913, (222,811 skins) 4,783 cwt. (£30,879) in 1922.
- (Australia): 272,932 cwt. (£854,866) in 1913, (3,506,820 skins) 254,482 cwt. (£1,020,153) in 1922.
- (New Zealand): 52,311 cwt. (£152,117) in 1913, (605,518 skins) 42,155 cwt. (£140,792) in 1922.

From Foreign Countries : 89,207 cwt. (£315,089) in 1913, (3,348,505 skins) 127,208 cwt. (£429,162) in 1922.

- (Russia): 16,714 cwt. (£56,778) in 1913, (1,112,954 skins) 26,012 cwt. (£62,529) in 1922.
- (Chile): 24,619 cwt. (£73,226) in 1913, (398,295 skins) 27,818 cwt. (£71,124) in 1922.
- (Argentine): 7,903 cwt. (£23,021) in 1913, (329,702 skins) 22,520 cwt. (£70,644) in 1922.

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IMPORTS OF PICKLED SHEEP- AND LAMBSKINS

- Total Imports : 7,533,798 skins (£699,091) in 1913, (4,578,458 skins) 135,481 cwt. (£464,155) in 1922.
- From Empire Countries : 6,373,270 skins (£568,208) in 1913, (3,554,171 skins) 100,043 cwt. (£361,781) in 1922.
- (Australia): 668,484 skins (£65,446) in 1913, (163,946 skins) 5,841 cwt. $(f_{17,575})$ in 1922.
- (New Zealand): 5,548,269 skins (£489,736) in 1913, (3,225,625 skins) 91,798 cwt. (£330,483) in 1922.
- From Foreign Countries : 1,160,528 skins (£130,883) in 1913, (1,024,287 skins) 35,438 cwt. (£ 102,374) in 1922. (Chile): 480,107 skins (£62,159) in 1913, (567,906 skins) 19,826 cwt. (£57,096)
- in 1022.
- (Argentine): 152,772 skins (£15,535) in 1913, (110,105 skins) 5,983 cwt. $(f_{21}, 585)$ in 1022.

TABLE B 41

EXPORTS OF IMPORTED SHEEP- AND LAMBSKINS, WITH WOOL ON

- Total Exports : 312,411 cwt. (£1,069,048) in 1913, (6,227,117 skins) 297,028 cwt. (£1,145,026) in 1922.
- To Empire Countries: 1,524 cwt. (£4,577) in 1913, (9,555 skins) 627 cwt. (f,2,172) in 1922.
- To Foreign Countries : 310,887 cwt. (£1,064,471) in 1913, (6,217,562 skins) 296,401 cwt. (£1,142,854) in 1922.

TABLE B 42

EXPORTS OF IMPORTED PICKLED SHEEP- AND LAMBSKINS

- Total Exports: 6,716,190 skins (£,561,460) in 1913, (4,086,843 skins) 90,920 cwt. (£,372,694) in 1922.
- To Empire Countries : 187,340 skins (£14,442) in 1913, (5,947 skins) 99 cwt. (f_{338}) in 1922.
- To Foreign Countries : 6,528,850 skins (£547,018) in 1913, (4,080,896 skins) 90,821 cwt. (£372,356) in 1922.

TABLE B 43

IMPORTS OF RAW GOATSKINS

- Total Imports: 12,094,788 skins (£1,488,893) in 1913, 8,724,207 skins (f,1,196,080) in 1922.
- From Empire Countries: 10,048,737 skins (£1,247,469) in 1913, 8,209,018 skins (£1,124,644) in 1922.

- (British West Africa): 197,984 skins (£13,414) in 1913, 1,018,310 skins (£100,939) in 1922.
- (Cape of Good Hope): 2,549,599 skins (£411,182) in 1913, 1,077,569 skins (£190,980) in 1922.
- (Natal): 282,661 skins (£27,491) in 1913, 84,955 skins (£16,619) in 1922.
- (British East Africa): 182,414 skins (£19,081) in 1913, 14,590 skins (£2,418) in 1922.
- (Aden and Dependencies): 842,069 skins (£82,279) in 1913, 807,120 skins (£94,835) in 1922.
- (British India): 5,933,071 skins (£686,097) in 1913, 5,155,878 skins (£713,273) in 1922.
- From Foreign Countries : 2,046,051 skins (£241,424) in 1913, 515,189 skins (f.71,436) in 1922.
- (Russia): 528,337 skins (£53,069) in 1913, 72,760 skins (£10,989) in 1922.
- (France): 118,489 skins (£15,269) in 1913, 36,092 skins (£2,471) in 1922.
- (Algeria): 12,052 skins (£1,398) in 1913, 2,160 skins (£255) in 1922.
- (Morocco): 396,539 skins (£36,097) in 1913, 23,283 skins (£2,263) in 1922.
- (China) : 292,877 škins (£28,281) in 1913, 60,117 škins (£8,766) in 1922.

IMPORTS OF UNDRESSED ANIMAL SKINS NOT OTHERWISE SPECIFIED

Total Imports : Not known in 1913, 2,826,512 skins (£103,395) in 1922. From Empire Countries : Not known in 1913, 1,910,231 skins (£49,428) in 1922. (Aden and Dependencies) : Not known in 1913, 1,511,128 skins (£39,264) in 1922. (Hong-Kong): Not known in 1913, 25,461 skins (£3,453) in 1922. (Australia): Not known in 1913, 101,354 skins (£669) in 1922.

From Foreign Countries : Not known in 1913, 916,281 skins (£53,967) in 1922.

TABLE B 45

EXPORTS OF IMPORTED GOATSKINS

- Total Exports : 8,493,072 skins (£1,019,611) in 1913, 6,000,063 skins (£800,318)
- To Empire Countries : 32,228 skins (£6,917) in 1913, 143,882 skins (£15,542)
- To Foreign Countries : 8,460,844 skins (£1,012,694) in 1913, 5,856,181 skins

TABLE B 46

EXPORTS OF IMPORTED SKINS, OTHER THAN FUR SKINS AND GOAT, SHEEP AND CALF

Total Exports : Included in B 47 for 1913, 1,392,169 skins (£47,885) in 1922. All of these went to foreign countries.

EXPORTS OF IMPORTED SKINS AND FURS NOT OTHERWISE SPECIFIED

Total Exports: 15,600,003 skins (£3,157,553) in 1913, included in B 46 for

1022. To Empire Countries : 113,527 skins (£43,466) in 1913, included in B 46 for 1022.

To Foreign Countries : 15,486,476 skins (£3,114,087) in 1913, included in B 46 for 1922.

TABLE B 48

IMPORTS OF BARK FOR TANNING

Total Imports: 892,054 cwt. (£348,082) in 1913, 686,141 cwt. (£317,061) in 1922.

From Émpire Countries: 816,886 cwt. (£327,223) in 1913, 623,363 cwt. (£296,710) in 1922.

(Natal) : 811,222 cwt. (£325,228) in 1913, 554,134 cwt. (£273,289) in 1922. (Australia) : 3,179 cwt. (£1,129) in 1913, not known in 1922.

From Foreign Countries : 75,168 cwts. (£20,859) in 1913, 62,778 cwt. (£20,351) in 1022.

(Madagascar): Not known in 1913, 8,140 cwt. (£3,277) in 1922.

(Portuguese East Africa): 6,280 cwt. (£1,905) in 1913, 4,262 cwt. (£2,079) in 1922.

Re-exports 1: 677,627 cwt. (£276,795) in 1913, 115,337 cwt. (£56,045) in 1922.

TABLE B 49

IMPORTS OF SUMACH

Total Imports: 164,100 cwt. (£83,161) in 1913, 104,467 cwt. (£70,769) in 1922. From Empire Countries: 396 cwt. (£130) in 1913, 20 cwt. (£25) in 1922. From Foreign Countries: 163,704 cwt. (£83,031) in 1913, 104,447 cwt. (£70,744)

in 1922.

(Italy): 153,200 cwt. (£80,064) in 1913, 103,136 cwt. (£69,305) in 1922.

Re-exports : 18,091 cwt. (£8,805) in 1913, 1,334 cwt. (£1,146) in 1922.

TABLE B 50

IMPORTS OF GAMBIER

Total Imports : 101,712 cwt. (£142,026) in 1913, 85,518 cwt. (£141,005) in 1922. From Empire Countries : 81,352 cwt. (£115,168) in 1913, 70,523 cwt. (£116,689) in 1022.

(Straits Settlements): 81,148 cwt. (£114,758) in 1913, 68,869 cwt. (£113,388) in 1922.

¹ Almost entirely to Foreign Countries.

From Foreign Countries : 20,360 cwt. (£26,858) in 1913, 14,995 cwt. (£24,316) in 1922.

(Dutch Possessions in the Indian Seas): 16,436 cwt. (£20,937) in 1913, 4,258 cwt. (£7,522) in 1022.

(China): 900 cwt. (£1,389) in 1913, 8,985 cwt. (£13,678) in 1922.

Re-exports : 8,154 cwt. (£14,833) in 1913, 6,659 cwt. (£12,035) in 1922.

TABLE B 51

IMPORTS OF MYROBALANS

Total Imports: 565,222 cwt. (£176,855) in 1913, 505,642 cwt. (£184,430) in 1022.

From Empire Countries: 564,462 cwt. (£176,621) in 1913, 503,043 cwt. (£183,217) in 1922.

(British India): 564,462 cwt. (£176,621) in 1913, 501,043 cwt. (£182,590) in 1922.

From Foreign Countries : 760 cwt. (£234) in 1913, 2,599 cwt. (£1,213) in 1922. Re-exports: 22,003 cwt. (£6,277) in 1913, 15,082 cwt. (£4,469) in 1922.

TABLE B 52

IMPORTS OF VALONIA

Total Imports : 346,092 cwt. (£164,208) in 1913, 110,090 cwt. (£64,980) in 1922. From Empire Countries : None in 1913, 1,380 cwt. (£663) in 1922.

From Foreign Countries : 346,092 cwt. (£164,208) in 1913, 108,710 cwt. $(\pounds 64,317)$ in 1922.

(Turkey, Asiatic): 337,733 cwt. (£160,304) in 1913, 24 cwt. (£18) in 1922.

(Smyrna): Not known in 1913, 99,628 cwt. (£59,225) in 1922.

Re-exports : 3,841 cwt. (£2,706) m 1913, 4,085 cwt. (£2,061) in 1922.

TABLE B 53

Imports of Crude Tanning Materials not otherwise Specified

Total Imports : 32,935 cwt. (£16,533) in 1913, 39,031 cwt. (£26,804) in 1922. From Empire Countries : 8,194 cwt. (£3,904) in 1913, 8,857 cwt. (£5,467) in

(British India): 7,975 cwt. (£3,828) in 1913, 5,605 cwt. (£3,509) in 1922. (British West India Islands): Not known in 1913, 1,452 cwt. (£923) in 1922.

From Foreign Countries : 24,741 cwt. (£12,629) in 1913, 30,174 cwt. (£21,337)

(Dutch West India Islands): 5,795 cwt. (£2,855) in 1913, 5,751 cwt. (£3,986)

(Peru): 4,890 cwt. (£2,936) in 1913, 1,740 cwt. (£1,229) in 1922.

(Chile): Not known in 1913, 18,594 cwt. (£13,200) in 1922.

Re-exports : 7,579 cwt. (£3,832) in 1913, 4,653 cwt. (£2,735) in 1922.

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IMPORTS OF OAK EXTRACT

Total Imports : Included in B 57 for 1913, 18,128 cwt. (£19,589) in 1922. From Foreign Countries : Included in B 57 for 1913, 18,128 cwt. (£19,589) in 1922.

(Belgium): Included in B 57 for 1913, 1,413 cwt. (£1,617) in 1922.

(France): Included in B 57 for 1913, 2,999 cwt. (£2,920) in 1922. (Italy): Included in B 57 for 1913, 10,191 cwt. (£11,168) in 1922.

Re-exports : Included in B 57 for 1913, 156 cwt. (£,144) in 1922.

TABLE B 55

IMPORTS OF CHESTNUT EXTRACT

Total Imports : Included in B 57 for 1913, 470,505 cwt. (£419,457) in 1922. From Foreign Countries : Included in B 57 for 1913, 470,505 cwt. (£419,457) in 1022.

(France): Included in B 57 for 1913, 365,880 cwt. (£326,691) in 1922. (Italy): Included in B 57 for 1913, 87,752 cwt. (£75,711) in 1922.

(United States): Included in B 57 for 1913, 5,341 cwt. (£6,201) in 1922.

Re-exports : Included in B 57 for 1913, 4,775 cwt. (£6,949) in 1922.

TABLE B 56

IMPORTS OF QUEBRACHO EXTRACT

Total Imports : Included in B 57 for 1913, 251,988 cwt. (£306,872) in 1922.

From Empire Countries: Included in B 57 for 1913, 1,490 cwt. (£1,593) in 1922.

From Foreign Countries : Included in B 57 for 1913, 250,498 cwt. (£305,279) in 1022.

(Argentine): Included in B 57 for 1913, 221,390 cwt. (£268,979) in 1922.

Re-exports : Included in B 57 for 1913, 78,582 cwt. (£101,507) in 1922.

TABLE B 57

IMPORTS OF TANNING EXTRACTS (NOT INCLUDING OAK, CHESTNUT AND OUEBRACHO IN 1022)

Total Imports : £922,600 in 1913, 193,315 cwt. (£225,861) in 1922. From Empire Countries : £42,443 in 1913, 162,634 cwt. (£181,279) in 1922. (Natal): Not known in 1913, 128,078 cwt. (£147,559) in 1922. (British India) : £13,343 in 1913, 28,174 cwt. (£26,613) in 1922. (Straits Settlements): £4,695 in 1913, 400 cwt. (£550) in 1922. (Canada) : £4,136 in 1913, 5,982 cwt. (£6,557) in 1922. (British West India Islands) : £19,064 in 1913, not known in 1922.

From Foreign Countries : £880,157 in 1913, 30,681 cwt. (£44,582) in

(Germany): £25,747 in 1913, 1,993 cwt. (£1,016) in 1922.

(Dutch Borneo) : £6,830 in 1913, not known in 1922.

(Belgium): £18,955 in 1913, 874 cwt. (£1,160) in 1922.

(France): £429,886 in 1913, 1,597 cwt. (£4,241) in 1922. (*Italy*): £88,047 in 1913, 9,217 cwt. (£10,223) in 1922.

(Turkey Asiatic) : £26,107 in 1913, not known in 1922.

(Smyrna): Not known in 1913, 10,231 cwt. (£15,545) in 1922.

(United States) : £46,028 in 1913, 3,763 cwt. (£6,486) in 1922.

(Argentine): £167,196 in 1913, not known in 1922. Re-exports: Not known in 1913, 36,864 cwt. (£55,208) in 1922.

TABLE B 58

IMPORTS OF ROUGH-TANNED HIDE LEATHER (INCLUDING SOLE LEATHER BUT NOT ROUGH-TANNED CALF)

- Total Imports : 760,935 cwt. (£3,949,199) in 1913, 334,189 cwt. (£2,204,500)
- From Empire Countries: 302,723 cwt. (£1,992,485) in 1913, 181,022 cwt. (£1,283,066) in 1922.
- (British India): 196,894 cwt. (£1,360,500) in 1913, included in B 59, 60, 62 and

(Straits Setilements): 4,709 cwt. (£24,944) in 1913, included in B 59, 60, 62

(Australia): 45,844 cwt. (£277,360) in 1913, included in B 59, 60, 62 and 63 in

(New Zealand): 1,988 cwt. (£12,964) in 1913, included in B 59, 60, 62 and 63

(Canada): 50,515 cwt. (£295,457) in 1913, included in B 59, 60, 62 and 63 in

From Foreign Countries: 458,212 cwt. (£1,956,714) in 1913, 153,167 cwt.

(Germany): 62,205 cwt. (£223,878) in 1913, included in B 59, 60, 62 and 63

(Belgium) : 14,986 cwt. (£55,583) in 1913, included in B 59, 60, 62 and 63 in

(France): 8,119 cwt. (£31,902) in 1913, included in B 59, 60, 62 and 63 in 1922.

(United States): 362,678 cwt. (£1,589,496) in 1913, included in B 59, 60, 62 Re-exports : 14,978 cwt. (£96,800) in 1913, 19,893 cwt. (£150,327) in 1922.

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IMPORTS OF SOLE LEATHER

Total Imports : Included in B 58 for 1913, 149,911 cwt. (£952,694) in 1922.

From Empire Countries : Included in B 58 for 1913, 41,202 cwt. (£291,876) in 1922.

(Australia): Included in B 58 for 1913, 26,168 cwt. (£177,039) in 1922.

(Canada): Included in B 58 for 1913, 12,321 cwt. (£91,503) in 1922.

From Forcign Countries : Included in B 58 for 1913, 108,709 cwt. (£660,818) in 1922.

(France): Included in B 58 for 1913, 3,993 cwt. (£58,133) in 1922.

(Austria): Included in B 58 for 1913, 5,539 cwt. (£46,278) in 1922. (Hungary): Included in B 58 for 1913, 1,008 cwt. (£10,043) in 1922.

(*Czecho-Slovakia*): Included in B 58 for 1913, 3,639 cwt. (\pounds 30,242) in 1922. (*United States*): Included in B 58 for 1913, 84,186 cwt. (\pounds 438,458) in 1922. Re-exports: Included in B 58 for 1913, 5,950 cwt. (\pounds 54,781) in 1922.

TABLE B 60

IMPORTS OF ROUGH-TANNED OX AND COW-HIDE LEATHER

Total Imports : Included in B 58 for 1913, 148,279 cwt. (£1,086,729) in 1922. From Empire Countries : Included in B 58 for 1913, 130,874 cwt. (£946,269) in 1922.

(British Índia 1): Included in B 58 for 1913, 126,087 cwt. (£911,072) in 1922. (Australia): Included in B 58 for 1913, 3,138 cwt. (£21,699) in 1922.

From Foreign Countries : Included in B 58 for 1913, 17,405 cwt. (f.140,460) in 1922.

(France): Included in B 58 for 1913, 2,363 cwt. (£26,262) in 1922. (Austria): Included in B 58 for 1913, 2,253 cwt. (£19,952) in 1922.

(Czecho-Slovakia): Included in B 58 for 1913, 1,709 cwt. (£13,691) in 1922.

(*United States*): Included in B 58 for 1913, 5,380 cwt. (£57,059) in 1922. Re-exports: Included in B 58 for 1913, 3,957 cwt. (£30,149) in 1922.

TABLE B 61

IMPORTS OF ROUGH-TANNED CALFSKINS

Total Imports : 13,363 cwt. (£105,243) in 1913, 5,982 cwt. (£58,301) in 1922. From Empire Countries : 11,108 cwt. (£86,761) in 1913, 5,681 cwt. (£54,904) in 1922.

(British Índia): 10,420 cwt. (£79,148) in 1913, 5,681 cwt. (£54,904) in 1922. (Australia): 619 cwt. (£7,282) in 1913, not known in 1922.

¹ Most of the leather included under this heading is probably that known by the trade designation of "East India Tanned Kip." A separate record is now made by the authorities of the latter, but it is clear that the description is not generally used by importers (see B 62).

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From Foreign Countries : 2,255 cwt. (£18,482) in 1913, 301 cwt. (£3,397) in 1922.

(France): 264 cwt. (£2,033) in 1913, 164 cwt. (£1,983) in 1922. (United States): 1,254 cwt. (£6,652) in 1913, not known in 1922.

Re-exports : 115 cwt. $(f_{1,041})$ in 1913, 318 cwt. $(f_{2,208})$ in 1922.

TABLE B 62

IMPORTS OF ROUGH-TANNED KIPS

Total Imports : Included in B 58 for 1913, 2,428 cwt. (£16,022) in 1922. From Empire Countries : Included in B 58 for 1913, 2,401 cwt. (£15,831) 1922.

(British India)¹: Included in B 58 for 1913, 2,401 cwt. (£15,831) in 1922.

From Foreign Countries : Included in B 58 for 1913, 27 cwt. $(\pounds 191)$ in 1922. (United States) : Included in B 58 for 1913, 6 cwt. $(\pounds 26)$ in 1922.

Re-exports : Included in B 58 for 1913, 9,986 cwt. (£65,397) in 1922.

TABLE B 63

IMPORTS OF ROUGH-TANNED HIDE LEATHER, NOT OTHERWISE SPECIFIED

Total Imports : Included in B 58 for 1913, 33,571 cwt. (£149,055) in 1922. From Empire Countries : Included in B 58 for 1913, 6,545 cwt. (£29,090) m 1922. (British India) : Included in B 58 for 1913, 5,943 cwt. (£26,101) in 1922.

From Foreign Countries : Included in B 58 for 1913, 27,026 cwt. (£119,965) in 1922.

(France): Included in B 58 for 1913, 2,091 cwt. (£36,429) in 1922. (United States): Included in B 58 for 1913, 20,915 cwt. (£66,320) in 1922. Re-exports: Included in B 58 for 1913, 2,319 cwt. (£14,329) in 1922.

TABLE B 64

IMPORTS OF ROUGH-TANNED GOATSKINS

Total Imports : 77,287 cwt. (£958,841) in 1913, 34,901 cwt. (£688,505) in 1922. From Empire Countries : 75,561 cwt. (£943,051) in 1913, 33,656 cwt. (£677,952) in 1922.

(British West Africa): 12,588 cwt. (£91,499) in 1913, 793 cwt. (£9,308) in 1922. (British India): 62,935 cwt. (£851,091) in 1913, 31,045 cwt. (£653,586) in 1922. From Foreign Countries: 1,726 cwt. (£15,790) in 1913, 1,245 cwt. (£10,553) in 1922.

(Turkey): 1,085 cwt. (£8,786) in 1913, not known in 1922.

Re-exports : 65,342 cwt. (£912,548) in 1913, 15,179 cwt. (£384,141) in 1922.

¹ See note to B 60. The apparent excess of re-exports over imports 15 probably largely accounted for by the fact that goods have been included under the heading "Tanned Kips" for re-export which were imported as "Rough-Tanned Cow Hides."

IMPORTS OF ROUGH-TANNED SHEEPSKINS

Fotal Imports : 88,646 cwt. (£819,076) in 1913, 68,518 cwt. (£918,876) in 1922. From Empire Countries : 72,275 cwt. (£701,095) in 1913, 63,537 cwt. (£853,532) in 1922.

British India): 39,253 cwt. (£547,914) in 1913, 28,604 cwt. (£600,919) in 1922. Australia): 30,217 cwt. (£139,640) in 1913, 26,942 cwt. (£185,267) in 1922.

From Foreign Countries : 16,371 cwt. (£117,981) in 1913, 4,981 cwt. (£65,344) in 1022.

France): 6,638 cwt. (£48,292) in 1913, 1,405 cwt. (£30,040) in 1922. Turkey Asiatuc): 6,167 cwt. (£45,866) in 1913, not known in 1922. 'e-exports: 49,938 cwt. (£523,881) in 1913, 34,368 cwt. (£452,603) in 1922.

TABLE B 66

IMPORTS OF UNSPECIFIED ROUGH-TANNED SKINS

otal Imports : 6,665 cwt. (£33,438) in 1913, 730 cwt. (£10,232) in 1922. rom Empire Countries : 724 cwt. (£4,181) in 1913, 44 cwt. (£611) in 1922. rom Foreign Countries : 5,941 cwt. (£29,257) in 1913, 686 cwt. (£9,621) in 1922.

e-exports : 1,562 cwt. (£10,360) in 1913, 93 cwt. (£1,805) in 1922.

TABLE B 67

IMPORTS OF BOX AND WILLOW CALF UPPER LEATHER

otal Imports : 46,834 cwt. (£1,196,640) in 1913, 35,163 cwt. (£1,557,780) in 1922.

tom Empire Countries: 35 cwt. (£666) in 1913, 1,369 cwt. (£62,590) in

'anada): 9 cwt. (£135) in 1913, 1,369 cwt. (£62,566) in 1922.

om Foreign Countries: 46,799 cwt. (£1,195,974) in 1913, 33,794 cwt. (£1,495,190) in 1922.

'ermany): 28,313 cwt. (£826,273) in 1913, 13,607 cwt. (£535,407) in 1922.

letherlands) : Not known in 1913, 8,245 cwt. (£390,377) in 1922. 'rance) : 10,521 cwt. (£167,580) in 1913, 1,388 cwt. (£38,390) in 1922.

'nited States): 6,185 cwt. (£158,236) in 1913, 9,483 cwt. (£482,634) in 1022.

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-exports : 612 cwt. (£21,181) in 1913, 829 cwt. (£57,194) in 1922.

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IMPORTS OF GLACE KID UPPER LEATHER

Total Imports : 47,999 cwt. (£1,578,371) in 1913, 30,472 cwt. (£2,028,311) in 1022.

From Empire Countries : 80 cwt. (£2,400) in 1913, 50 cwt. (£2,554) in 1922.

From Foreign Countries: 47,919 cwt. (£1,575,971) in 1913, 30,422 cwt. (£2,025,757) in 1922. (Germany): Not known in 1913, 830 cwt. (£51,065) in 1922.

(Netherlands): Not known in 1913, 707 cwt. (£56,645) in 1922.

(France): 74 cwt. (£2,173) in 1913, 2,501 cwt. (£179,665) in 1922.

- (Switzerland): "Not known in 1913, 714 cwt. (£51,709) in 1922.
- (United States): 45,964 cwt. (f.1,510,164) in 1913, 24,420 cwt. (f.1,620,802) in 1922.

Re-exports : 4,455 cwt. (f.190,993) in 1913, 2,061 cwt. (f.172,986) in 1922.

TABLE B 69

IMPORTS OF PATENT, VARNISHED, JAPANNED, AND ENAMELLED LEATHER

Total Imports: 19,872 cwt. (£613,603) in 1913, 18,999 cwt. (£1,110,472) in 1922.

From Empire Countries : 234 cwt. (£4,846) in 1913, 1,424 cwt. (£98,645) in 1022.

(Canada): 234 cwt. (£4,846) in 1913, 1,424 cwt. (£98,645) in 1922.

From Foreign Countries: 19,438 cwt. (£608,757) in 1913, 17,575 cwt. $(f_{1,011,827})$ in 1922.

(Germany): 15,442 cwt. (£451,286) in 1913, 1,914 cwt. (£68,549) in 1922.

(Netherlands): Not known in 1913, 3,193 cwt. (£215,451) in 1922.

(France): Not known in 1913, 275 cwt. (£20,527) in 1922.

(United States): 3,403 cwt. (£142,504) in 1913, 12,140 cwt. (£703,720) in 1922. Re-exports : 1,263 cwt. (£61,797) in 1913, 1,408 cwt. (£97,236) in 1922.

TABLE B 70

IMPORTS OF UPPER LEATHER, OTHER THAN BOX AND WILLOW CALF, GLACE KID AND PATENT

Total Imports : Included in B 71 for 1913, 30,593 cwt. $(\pounds 976,461)$ in 1922. From Empire Countries : Included in B 71 for 1913, 737 cwt. $(\pounds 18,641)$ in 1922.

From Foreign Countries : Included in B 71 for 1913, 29,856 cwt. (£957,820) in 1922.

(Germany): Included in B 71 in 1913, 1,336 cwt. (£37,944) in 1922. (Netherlands): Included in B 71 for 1913, 2,154 cwt. (£75,478) in 1922.

(France): Included in B 71 for 1913, 3,080 cwt. (£116,855) in 1922. (United States): Included in B 71 for 1913, 21,545 cwt. (£677,225) in 1922.

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Re-exports : Included in B 71 for 1913, 1,335 cwt. (£70,805) in 1922.

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IMPORTS OF DRESSED LEATHER, INCLUDING UPPER LEATHER, OTHER THAN BOX AND WILLOW CALF, GLACE KID, AND PATENT

Total Imports : 114,380 cwt. (£1,305,790) in 1913, included in B 72, 73, 74 for

From Empire Countries : 11,838 cwt. (£62,517) in 1913, included in B 72, 73, 74 for 1922.

(Canada): 11,019 cwt. (£57,689) in 1913, included in B 72, 73, 74 for 1922.

From Foreign Countries : 102,542 cwt. (£1,243,273) in 1913, included in B 72, 73, 74 for 1922.

(Germany): 16,487 cwt. (£326,448) in 1913, included in B 72, 73, 74 for 1922. (Belgium): 2,775 cwt. (£56,165) in 1913, included in B 72, 73, 74 for 1922.

(France): 41,401 cwt. (£525,163) in 1913, included in B 72, 73, 74 for 1922. (United States): 38,713 cwt. (£281,183) in 1913, included in B 72, 73, 74 for

1022.

Re-exports : 10,348 cwt. (£228,432) in 1913, included in B 72, 73, 74 for 1922.

TABLE B 72

IMPORTS OF DRESSED LEATHER NOT OTHERWISE SPECIFIED

Total Imports : Included in B 71 for 1913, 26,557 cwt. (£671,273) in 1922. From Empire Countries : Included in B 71 for 1913, 350 cwt. (£13,450) in 1922. From Foreign Countries : Included in B 71 for 1913, 26,207 cwt. (£657,823) in 1022.

(France): Included in B 71 for 1913, 7,706 cwt. (£349,664) in 1922. (United States) : Included in B 71 for 1913, 13,027 cwt. (£216,949) in 1922. Re-exports : Included in B 71 for 1913, 806 cwt. (f.26,623) in 1922.

TABLE B 73

IMPORTS OF HADE, CALF, AND KIP DRESSED LEATHER, OTHER THAN UPPER LEATHER

Total Imports : Included in B 71 for 1913, 3,782 cwt. (£182,842) in 1922. From Empire Countries : Included in B 71 for 1913, 42 cwt. (£2,141) in 1922. From Foreign Countries : Included in B 71 for 1913, 3,740 cwt. (£180,701) in 1922.

(France): Included in B 71 for 1913, 2,354 cwt. (£114,694) in 1922.

(United States) : Included in B 71 for 1913, 874 cwt. (£44,911) in 1922.

Re-exports : Included in B 71 for 1913, 103 cwt. (£5,439) in 1922.

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IMPORTS OF SHEEP, GOAT, AND KID DRESSED LEATHER, OTHER THAN UPPER LEATHER

Total Imports : Included in B 71 for 1913, 6,714 cwt. (£319,472) in 1922.

From Empire Countries : Included in B 71 for 1913, 18 cwt. (£723) in 1922. From Foreign Countries : Included in B 71 for 1913, 6,696 cwt. (£318,749) in

1922.

(France): Included in B 71 for 1913, 4,786 cwt. (£232,214) in 1922. (United States): Included in B 71 for 1913, 648 cwt. (f.28,271) in 1922.

Re-exports : Included in B 71 for 1913, 171 cwt. (£10,408) in 1922.

TABLE B 75

IMPORTS OF LEATHER BOOTS AND SHOES

Total Imports : 226,184 doz. pairs (£839,133) in 1913, included in B 77 for 1922. From Empire Countries : 615 doz. pairs (£798) in 1913, included in B 77 for 1922.

From Foreign Countries : 225,569 doz. pairs (£838,335) in 1913, included in B 77 for 1922.

(Germany): 32,947 doz. pairs (£76,522) in 1913, included in B 77 for 1922. (France): 25,352 doz. pairs (£113,101) in 1913, included in B 77 for 1922. (Switzerland): 60,178 doz. pairs (£192,164) in 1913, included in B 77 for 1922. (Austria-Hungary): 24,691 doz. pairs (£78,530) in 1913, included in B 77 for 1922. (United States): 73,004 doz. pairs (£352,497) in 1913, included in B 77 for 1922. Re-exports: 14,941 doz. pairs (£38,836) in 1913, included in B 77 for 1922.

TABLE B 76

IMPORTS OF LEATHER BOOTS AND SHOES (MEN'S)

Total Imports : Included in B 75 for 1913, 17,103 doz. pairs (£136,676) in 1022.

From Empire Countries : Included in B 75 for 1913, 1,556 doz. pairs (£7,296) in 1922.

From Foreign Countries : Included in B 75 for 1913, 15,547 doz. pairs (£129,380) in 1922.

(Germany): Included in B 75 for 1913, 1,465 doz. pairs (£3,290) in 1922.

(Switzerland): Included in B 75 for 1913, 6,114 doz. pairs (£56,286) in 1922. (United States): Included in B 75 for 1913, 6,406 doz. pairs (£61,787) in 1922, Re-exports: Included in B 75 for 1913, 804 doz. pairs (£3,863) in 1922.

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IMPORTS OF LEATHER BOOTS AND SHOES (WOMEN'S AND CHILDREN'S)

- Total Imports : Included in B 75 for 1913, 109,979 doz. pairs (£899,558) in 1022.
- From Empire Countries : Included in B 75 for 1913, 1,153 doz. pairs (£8,374) in 1022.
- From Foreign Countries: Included in B 75 for 1913, 108,826 doz. pairs (£,891,184) in 1922.

(Germany): Included in B 75 for 1913, 12,996 doz. pairs (f.18,326) in 1922.

(Belgium): Included in B 75 for 1913, 2,274 doz. pairs (£25,783) in 1922.

(*France*): Included in B 75 for 1913, 16,170 doz. pairs (£176,430) in 1920. (*Switzerland*): Included in B 75 for 1913, 42,947 doz. pairs (£428,648) in 1922. (*Austria*): Included in B 75 for 1913, 6,675 doz. pairs (£39,870) in 1922. (*Czecho-Slovakia*): Included in B 75 for 1913, 7,642 doz. pairs (£34,763) in

- 1022.
- (United States): Included in B 75 for 1913, 19,609 doz. pairs (£164,935) in 1022.

Re-exports : Included in B 75 for 1913, 12,806 doz. pairs (£,103,502) in 1922.

TABLE B 78

IMPORTS OF BOOTS, SHOES, AND SLIPPERS, OTHER THAN LEATHER AND RUBBER

- Total Imports: 139,766 doz. pairs (£92,899) in 1913, 148,485 doz. pairs (f.266,896) in 1922.
- From Empire Countries : 133 doz. pairs (£128) in 1913, 919 doz. pairs (£1,833) in 1022.
- From Foreign Countries: 139,633 doz. pairs (£,92,771) in 1913, 147,566 doz. pairs (£265,063) in 1922.
- Re-exports : 13,120 doz. pairs (£8,310) in 1913, 3,511 doz. pairs (£7,977) in 1022.

TABLE B 79

IMPORTS OF LEATHER GLOVES

- Total Imports : 1,473,943 doz. pairs (£1,800,341) in 1913, 448,382 doz. pairs (f,1,206,898) in 1922.
- From Empire Countries : 72 doz. pairs (£141) in 1913, 586 doz. pairs (£2,352) in 1922.
- From Foreign Countries: 1,473,871 doz. pairs (£1,800,200) in 1913, 447,796 doz. pairs (£1,204,546) in 1922.
- (Germany): 343,009 doz. pairs (£380,166) in 1913, 18,171 doz. pairs (£21,634) in 1022.
- (Belgium) : 278,016 doz. pairs (f,360,200) in 1913, 51,745 doz. pairs (f,155,823) in 1922.

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(France): 466,688 doz. pairs (£572,704) in 1913, 189,576 doz. pairs (£688,818) in 1922.

(Italy) : 11,379 doz. pairs (£11,163) in 1913, 49,886 doz. pairs (£82,679) in 1922. (Austria) : 369,886 doz. pairs (£461,237) in 1913, 1,221 doz. pairs (£3,476) in 1022.

(Czecho-Slovakia): Not known in 1913, 32,272 doz. pairs (£75,527) in 1922.

- (United States): 2,159 doz. pairs (£3,445) in 1913, 7,866 doz. pairs (£11,707) in 1922.
- Re-exports : 208,130 doz. pairs (£266,230) in 1913, 54,323 doz. pairs (£161,209) in 1922.

TABLE B 80

IMPORTS OF LEATHER TRUNKS AND BAGS

Total Imports : Included in B 85 for 1913, £24,212 in 1922. From Empire Countries : Included in B 85 for 1913, £232 in 1922. From Foreign Countries : Included in B 85 for 1913, £23,980 in 1922. (*Germany*): Included in B 85 for 1913, £19,423 in 1922. Re-exports : Included in B 85 for 1913, £1,697 in 1922.

TABLE B 81

IMPORTS OF SADDLERY AND HARNESS

Total Imports : Included in B 85 for 1913, 140 cwt. (£1,565) in 1922. From Empire Countries : Included in B 85 for 1913, (£16) in 1922. From Foreign Countries : Included in B 85 for 1913, 140 cwt. (£1,549) in 1922. Re-exports : Included in B 85 for 1913, 6 cwt. (£117) in 1922.

TABLE B 82

IMPORTS OF FANCY LEATHER GOODS

Total Imports: Included in B 85 for 1913, £148,516 in 1922. From Empire Countries: Included in B 85 for 1913, £179 in 1922. From Foreign Countries: Included in B 85 for 1913, £148,337 in 1922. (Germany): Included in B 85 for 1913, £103,251 in 1922. (France): Included in B 85 for 1913, £19,862 in 1922. (Austria): Included in B 85 for 1913, £7,805 in 1922. Re-exports: Included in B 85 for 1913, £7,805 in 1922.

TABLE B 83

IMPORTS OF LEATHER SPORTS GOODS

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Total Imports : Included in B 85 for 1913, £1,650 in 1922. From Empire Countries : Included in B 85 for 1913, £954 in 1922. From Foreign Countries : Included in B 85 for 1913, £696 in 1922. Re-exports : Included in B 85 for 1913, none in 1922.

IMPORTS OF ARTIFICIAL LEATHER GOODS.

Total Imports : Included in B 85 for 1913, £192,711 in 1922. From Foreign Countries : Included in B 85 for 1913, £192,711 in 1922. Re-exports : Included in B 85 for 1913, £703 in 1922.

TABLE B 85

IMPORTS OF LEATHER MANUFACTURES NOT OTHERWISE SPECIFIED

Total Imports1: f.991,442 in 1913, f.90,827 in 1922. From Empire Countries : £347 in 1913, £1,529 in 1922. From Foreign Countries : £991,095 in 1913, £89,298 in 1922. (Germany): £881,564 in 1913, £13,236 in 1922. (United States): £32,531 in 1913, £53,346 in 1922. Re-exports : $f_{.77,356}$ in 1913, $f_{.14,139}$ in 1922.

TABLE B 86

IMPORTS OF LEATHER BELTING

Total Imports : 5,192 cwt. (£66,879) in 1913, 3,042 cwt. (£87,136) in 1922.

From Empire Countries : None in 1913, 11 cwt. (f.294) in 1922.

From Foreign Countries: 5,192 cwt. (£66,879) in 1913, 3,031 cwt. (£86,842) in 1022.

(Germaný): 1,707 cwt. (£19,329) in 1913, 312 cwt. (£6,743) in 1922.

(Netherlands): 1,519 cwt. (£18,411) in 1913, 864 cwt. (£18,688) in 1922. (France): 191 cwt. (£3,389) in 1913, 699 cwt. (£25,548) in 1922.

(United States): 1,215 cwt. (£18,675) in 1913, 782 cwt. (£27,204) in 1922.

Re-exports : 255 cwt. (£3,489) in 1913, 434 cwt. (£17,431) in 1922.

TABLE B 87

IMPORTS OF WOVEN HAIR OR COTTON MACHINERY BELTING

Total Imports : 3,961 cwt. (£38,669) in 1913, 185 cwt. (£3,381) in 1922. From Empire Countries : None in 1913, 24 cwt. (£730) in 1922.

From Foreign Countries : 3,961 cwt. (£38,669) in 1913, 161 cwt. (£2,651) in 1922.

Re-exports : 112 cwt. (f.834) in 1913, 34 cwt. (f.453) in 1922.

¹ The 1913 figures include those of entries which in 1922 would have been included in B 80 to 84.

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IMPORTS OF BELTING MACHINERY, OTHER THAN LEATHER AND WOVEN HAIR OR COTTON

Total Imports : 6,703 cwt. (£63,033) in 1913, 1,619 cwt. (£25,842) in 1922. From Empire Countries : 37 cwt. (£781) in 1913, 104 cwt. (£1,661) in 1922. From Foreign Countries : 6,666 cwt. (£62,252) in 1913, 1,515 cwt. (£24,181) in 1922.

Re-exports : 92 cwt. $(f_{1,071})$ in 1913, 191 cwt. $(f_{2,686})$ in 1922.

TABLE B 80

EXPORTS OF RAW HIDES FROM IMPORTED CATTLE SLAUGHTERED IN THE UNITED KINGDOM

Total Exports : 19,424 cwt. (£74,052) in 1913, 3,667 cwt. (£15,839) in 1922. To Empire Countries : 6,355 cwt. (£27,970) in 1913, 32 cwt. (£200) in 1922. To Foreign Countries: 13,069 cwt. (£46,082) in 1913, 3,635 cwt. (£15,639) in 1022.

TABLE B oo

EXPORTS OF RAW HIDES AND CALFSKINS

Total Exports: 198,330 cwt. (£641,202) in 1913, 141,077 cwt. (£425,471) in 1922. To Empire Countries : 12,857 cwt. (£49,546) in 1913, 7,051 cwt. (£33,600) in 1922. To Foreign Countries : 185,473 cwt. (£591,656) in 1913, 134,026 cwt. (£391,871) in 1022.

(Germany): 63,441 cwt. (£139,947) in 1913, 40,801 cwt. (£89,351) in 1922. (Netherlands) : 19,032 cwt. (£66,446) in 1913, 21,674 cwt. (£55,317) in 1922. (United States): 60,332 cwt. (£226,752) in 1913, 45,022 cwt. (£168,290) in 1922.

TABLE B 91

EXPORTS OF SHEEP- AND LAMBSKINS WITH WOOL ON

- Total Exports: 3,721 cwt. (£13,922) in 1913, (331,751 skins) 8,414 cwt. (£30,951) in 1922.
- To Empire Countries : 37 cwt. (£364) in 1913, (864 skins) 8 cwt. (£183) in 1922. To Foreign Countries : 3,684 cwt. (£13,558) in 1913, (330,887 skins) 8,406 cwt. (f, 30, 768) in 1922.
- (Germany): 783 cwt. (£3,657) in 1913, (103,237 skins) 1,132 cwt. (£6,862) in 1922.
- (Belgium): 1,067 cwt. (£2,273) in 1913, (44,971 skins) 3,150 cwt. (£5,661) in 1022.
- (Italy): 2 cwt. (£8) in 1913, (85,002 skins) 1,557 cwt. (£6,864) in 1922. (United States): Not known for 1913, (75,658 skins) 1,401 cwt. (£4,648) in 1922.

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EXPORTS OF PICKLED SHEEP- AND LAMESKINS, INCLUDING IMPORTED SKINS FELLMONGERED IN THE UNITED KINGDOM

- Total Exports : 8,493,764 skins (£500,956) in 1913, (4,384,440 skins) 90,525 cwt. (£267,360) in 1922.
- To Empire Countries : 89,132 skins (£4,446) in 1913, (13 skins) 1 cwt. (£5) in 1922.
- To Fóreign Countries : 8,404,632 skins (£496,510) in 1913, (4,384,427 skins) 90,524 cwt. (£267,355) in 1922.
- (Belgium): 325,525 skins (£19,186) in 1913, (1,121,010 skins) 39,407 cwt. (£74,288) in 1922.
- (United States): 7,935,463 skins (£470,880) in 1913, (3,168,874 skins) 49,244 cwt. (£179,444) in 1922.

TABLE B 93

EXPORTS OF QUEBRACHO EXTRACT

(NOTE.—Quebracho extract is not manufactured from the raw material in the United Kingdom. Probably some of the extract referred to below should have been described as "Re-exports of Foreign Manufactures." On the other hand, some quebracho extract (which is imported in a solid form) is converted into liquid extract and this may be exported under the heading of British manufacture).

Total Exports : Included with other chemicals in 1913, 26,098 cwt. (£28,662) in 1922.

- To Empire Countries: Included with other chemicals in 1913, 8,905 cwt. (£10,929) in 1922.
- To Foreign Countries: Included with other chemicals in 1913, 17,193 cwt. (£17,733) in 1922.

TABLE B 94

EXPORTS OF TANNING EXTRACTS OTHER THAN QUEBRACHO

Total Exports : Included with other chemicals in 1913, 17,174 cwt. (£27,114) in 1922.

To Empire Countries: Included with other chemicals in 1913, 6,563 cwt. (£11,683) in 1922.

(British India): Included with other chemicals in 1913, 308 cwt. (£1,107) in 1922.

(Australia): Included with other chemicals in 1913, 3,025 cwt. (£5,634) in 1922.

To Foreign Countries: Included with other chemicals in 1913, 10,611 cwt. (£15,431) in 1922.

(Belgium): Included with other chemicals in 1913, 2,686 cwt. (£2,384) in 1922.

EXPORTS OF UNDRESSED LEATHER. INCLUDING SOLE LEATHER

Total Exports : 140,166 cwt. (£1,243,583) in 1913, see B 96 to B 103 for 1922. To Empire Countries : 22,570 cwt. (£189,248) in 1913, see B 96 to B 103 for 1022.

(New Zealand): 4,312 cwt. (£42,905) in 1913, see B 96 to B 103 for 1922. (Canada): 9,329 cwt. (£67,711) in 1913, see B 96 to B 103 for 1922.

To Foreign Countries : 117,596 cwt. (£1,054,335) in 1913, see B 96 to B 103 for 1022.

(Germany): 20,296 cwt. (£218,858) in 1913, see B 96 to B 103 for 1922. (France): 38,351 cwt. (£330,326) in 1913, see B 96 to B 103 for 1922. (United States): 33,668 cwt. (£268,920) in 1913, see B 96 to B 103 for 1922.

TABLE B 96

EXPORTS OF SOLE LEATHER

Total Exports : Included in B 95 for 1913, 67,107 cwt. (£701,190) in 1922. To Empire Countries : Included in B 95 for 1913, 9,118 cwt. (£119,835) in

1022.

(New Zealand): Included in B 95 for 1913, 3,743 cwt. (£58,033) in 1922.

To Foreign Countries: Included in B 95 for 1913, 57,989 cwt. (f, 581, 355) in 1922.

(Russia): Included in B 95 for 1913, 6,080 cwt. (£66,857) in 1922.

(Latvia): Included in B 95 for 1913, 797 cwt. (£4,574) in 1922. (Germany): Included in B 95 for 1913, 2,232 cwt. (£22,941) in 1922.

(*Netherlands*): Included in B 95 for 1913, 1,532 cwt. (£12,077) in 1922. (*Belgium*): Included in B 95 for 1913, 1,565 cwt. (£14,709) in 1922.

(France): Included in B 95 for 1913, 7,787 cwt. (£70,457) in 1922. (United States): Included in B 95 for 1913, 31,313 cwt. (£334,232) in 1922.

TABLE B 97

EXPORTS OF UNDRESSED HIDE LEATHER, NOT INCLUDING KIP LEATHER

Total Exports : Included in B 95 for 1913, 49,536 cwt. (£474,473) in 1922.

- To Empire Countries : Included in B 95 for 1913, 715 cwt. (£10,712) in 1022.
- To Foreign Countries : Included in B 95 for 1913, 48,821 cwt. (£463,761) in 1922.

(France): Included in B 95 for 1913, 37,738 cwt. (£353,195) in 1922.

(United States): Included in B 95 for 1913, 8,040 cwt. (£,75,170) in 1922.

GREAT BRITAIN AND IRELAND

TABLE B 98

EXPORTS OF UNDRESSED CALF LEATHER

Total Exports : Included in B 95 for 1913, 797 cwt. $(\pounds 8,846)$ in 1922. To Empire Countries : Included in B 95 for 1913, 47 cwt. $(\pounds 758)$ in 1922. To Foreign Countries : Included in B 95 for 1913, 750 cwt. $(\pounds 8,088)$ in 1922. (United States) : Included in B 95 for 1913, 606 cwt. $(\pounds 5,411)$ in 1922.

TABLE B 99

EXPORTS OF UNDRESSED KIP LEATHER

Total Exports : Included in B 95 in 1913, 4,364 cwt. $(\pounds_{32},806)$ in 1922. To Empire Countries : Included in B 95 for 1913, 14 cwt. $(\pounds_{1}88)$ in 1922. To Foreign Countries : Included in B 95 for 1913, 4,350 cwt. $(\pounds_{32},618)$ in 1922. (United States) : Included in B 95 for 1913, 3,298 cwt. $(\pounds_{24},490)$ in 1922.

TABLE B 100

EXPORTS OF UNDRESSED HIDE LEATHER NOT OTHERWISE SPECIFIED

Total Exports : Included in B 95 for 1913, 28,331 cwt. (£295,588) in 1922. To Empire Countries : Included in B 95 for 1913, 3,158 cwt. (£44,295) in 1922. (*New Zealand*) : Included in B 95 for 1913, 1,714 cwt. (£25,352) in 1922. (*Canada*) : Included in B 95 for 1913, 453 cwt. (£6,135) in 1922.

To Foreign Countries : Included in B 95 for 1913, 25,173 cwt. (£251,293) in 1922.

(France): Included in B 95 for 1913, 9,359 cwt. (£88,622) in 1922.

(United States): Included in B 95 for 1913, 11,778 cwt. (£122,441) in 1922.

TABLE B 101

EXPORTS OF UNDRESSED GOATSKIN LEATHER

Total Exports : Included in B 95 for 1913, 267 cwt. $(\pounds 9,540)$ in 1922. To Empire Countries : Included in B 95 for 1913, 12 cwt. $(\pounds 359)$ in 1922. To Foreign Countries : Included in B 95 for 1913, 255 cwt. $(\pounds 9,181)$ in 1922.

TABLE B 102

EXPORTS OF UNDRESSED SHEEP LEATHER (WHOLE OR SPLIT)

Total Exports : Included in B 95 for 1913, 11,557 cwt. (£187,713) in 1922. To Empire Countries : Included in B 95 for 1913, 100 cwt. (£1,988) in 1922. To Foreign Countries : Included in B 95 for 1913, 11,457 cwt. (£185,725) in 1922.

(Germany): Included in B 95 for 1913, 6,966 cwt. (£107,343) in 1922. (United States): Included in B 95 for 1913, 849 cwt. (£11,227) in 1922.

EXPORTS OF UNDRESSED SKIN LEATHER, NOT OTHERWISE SPECIFIED

Total Exports : Included in B 95 for 1913, 1,728 cwt. (£25,056) in 1922. To Empire Countries : Included in B 95 for 1913, 346 cwt. (£3,986) in 1922. To Foreign Countries : Included in B 95 for 1913, 1,382 cwt. (£21,070) in 1922.

TABLE B 104

EXPORTS OF PATENT AND JAPANNED LEATHER

Total Exports : 3,994 cwt. (£91,922) in 1913, 3,023 cwt. (£145,191) in 1922. To Empire Countries : 1,088 cwt. (£22,002) in 1913, 756 cwt. (£34,101) in 1922. (British India) : 400 cwt. (£9,552) în 1913, 216 cwt. (£8,477) în 1922. (Australia): 49 cwt. (£1,479) in 1913, 169 cwt. (£7,596) in 1922.

To Foreign Countries: 2,906 cwt. (£69,920) in 1913, 2,267 cwt. (£111,090)

(Belgium): 257 cwt. (£3,644) in 1913, 270 cwt. (£12,091) in 1922.

(France): 993 cwt. (£24,628) in 1913, 780 cwt. (£34,091) in 1922.

(Italy): 213 cwt. (£6,169) in 1913, 625 cwt. (£38,906) in 1922.

TABLE B 105

EXPORTS OF BOX AND WILLOW CALF UPPER LEATHER

Total Exports : Included in B 110 for 1913, 10,894 cwt. (£244,605) in 1922. To Empire Countries : Included in B 110 for 1913, 3,286 cwt. (£80,347) in 1922. (New Zealand): Included in B 110 for 1913, 395 cwt. (£22,103) in 1922. (Canada): Included in B 110 for 1913, 1,584 cwt. (£22,618) in 1922. To Foreign Countries : Included in B 110 for 1913, 7,608 cwt. (£164,258) in 1922. (Belgium): Included in B 110 for 1913, 561 cwt. (£17,467) in 1922. (France): Included in B 110 for 1913, 2,935 cwt. (£70,005) in 1922. (Italy): Included in B 110 for 1913, 325 cwt. (£7,077) in 1922. (United States): Included in B 110 for 1913, 1,591 cwt. (£25,579) in 1922.

TABLE B 106

EXPORTS OF GLACE KID UPPER LEATHER

Total Exports : Included in B 110 for 1913, 2,234 cwt. (£122,587) in 1922. To Empire Countries : Included in B 110 for 1913, 912 cwt. (£50,314) in 1922. (Union of South Africa): Included in B 110 for 1913, 438 cwt. (£16,168) in 1922. (Australia): Included in B 110 for 1913, 55 cwt. (£4,039) in 1922. (New Zealand): Included in B 110 for 1913, 305 cwt. (£26,024) in 1922. (Canada) : Included in B 110 for 1913, 65 cwt. (£1,791) in 1922. To Foreign Countries : Included in B 110 for 1913, 1,320 cwt. (£72,273) in 1922. (France): Included in B 110 for 1913, 403 cwt. (£23,936) in 1922.

EXPORTS OF UPPER LEATHER, OTHER THAN BOX AND WILLOW CALF, GLACE KID AND PATENT

- Total Exports : Included in B 110 for 1913, 26,063 cwt. (£545,852) in 1922.
- To Empire Countries : Included in B 110 for 1913, 5,509 cwt. (£96,619) in 1922. (*Cape of Good Hope*) : Included in B 110 for 1913, 866 cwt. (£21,982) in 1922.
- (British India) : Included in B 110 for 1913, 61 cwt. (£2,217) in 1922.
- (New Zealand) : Included in B 110 for 1913, 217 cwt. (£7,919) in 1922.
- (Canada): Included in B 110 for 1913, 3,707 cwt. (£51,825) in 1922.
- To Foreign Countries : Included in B 110 for 1913, 20,554 cwt. (£449,233) in 1922.
- (Belgium): Included in B 110 for 1913, 1,535 cwt. (£22,781) in 1922.
- (France): Included in B 110 for 1913, 4,907 cwt. (£101,936) in 1922.
- (Switzerland): Included in B 110 for 1913, 2,750 cwt. (£46,882) in 1922.
- (Italv): Included in B 110 for 1913, 1,936 cwt. (£34,845) in 1922.
- (United States): Included in B 110 for 1913, 4,827 cwt. (£157,376) in 1922.

TABLE B 108

EXPORTS OF DRESSED HIDE, CALF, AND KIP LEATHER, OTHER THAN UPPER LEATHER

Total Exports : Included in B 110 for 1913, 3,857 cwt. (£100,757) in 1922.

- To Empire Countries : Included in B 110 for 1913, 1,241 cwt. (£28,305) in 1022.
- (British India): Included in B 110 in 1913, 404 cwt. (£8,800) in 1922.
- (New Zealand): Included in B 110 for 1913, 123 cwt. (£3,470) in 1922.
- (Canada): Included in B 110 for 1913, 117 cwt. (£3,057) in 1922.
- To Foreign Countries: Included in B 110 for 1913, 2,616 cwt. (£72,452) in 1922.
- (Germany): Included in B 110 for 1913, 106 cwt. (£1,801) in 1922.
- (France): Included in B 110 for 1913, 1,075 cwt. (£24,802) in 1922.

(United States): Included in B 110 for 1913, 370 cwt. (£13,699) in 1922.

TABLE B 100

EXPORTS OF DRESSED SHEEP, GOAT, AND KID LEATHER, OTHER THAN UPPER LEATHER

Total Exports : Included in B 110 for 1913, 6,373 cwt. (£421,212) in 1922. To Empire Countries : Included in B 110 for 1913, 1,094 cwt. (£96,637) in 1922. (Union of South Africa): Included in B 110 for 1913, 110 cwt. (£5,144) in 1922. (British India): Included in B 110 for 1913, 589 cwt. (£63,031) in 1922. (Australia): Included in B 110 for 1913, 120 cwt. (£7,998) in 1922. (Canada): Included in B 110 for 1913, 132 cwt. (£12,525) in 1922.

To Foreign Countries : Included in B 110 for 1913, 5,279 cwt. (£334,575) in 1022.

(Germany): Included in B 110 for 1913, 811 cwt. (£25,061) in 1922.

(Netherlands): Included in B 110 for 1913, 764 cwt. (£40,570) in 1922.

(Belgium) : Included in B 110 for 1913, 424 cwt. (£21,803) in 1922.

(France): Included in B 110 for 1913, 602 cwt. (£26,620) in 1922. (Italy): Included in B 110 for 1913, 223 cwt. (£11,801) in 1922.

(China): Included in B 110 for 1913, 209 cwt. (£28,830) in 1922.

(Japan) : Included in B 110 for 1913, 255 cwt. (£31,853) in 1922.

(United States): Included in B 110 for 1913, 682 cwt. (£73,211) in 1922.

TABLE B 110

Exports of Dressed Leather, other than Patent and Japanned, and (FOR 1022) LEATHER SPECIFIED IN B 105 TO 109

Total Exports : 111,539 cwt. (£2,131,883) in 1913, 14,070 cwt. (£427,384) in 1922. To Empire Countries : 24,115 cwt. (£357,919) in 1913, 2,464 cwt. (£59,894)

(Cape of Good Hope): 3,363 cwt. (£39,490) in 1913, 451 cwt. (£13,022) in 1922. (Natal): 633 cwt. (£10,029) in 1913, 91 cwt. (£3,473) in 1922.

(Transvaal): 1,691 cwt. (£17,419) in 1913, 171 cwt. (£3,697) in 1922.

(British India): 3,020 cwt. (£72,913) in 1913, 290 cwt. (£8,317) in 1922.

(Australia): 1,701 cwt. (£40,923) in 1913, 138 cwt. (£6,570) in 1922.

(New Zealand): 2,589 cwt. (£41,735) in 1913, 301 cwt. (£5,701) in 1922.

(Canada): 8,842 cwt. (£109,845) in 1913, 371 cwt. (£7,926) in 1922.

To Foreign Countries : 87,424 cwt. (£1,773,964) in 1913, 11,606 cwt. (£367,490)

(Germany): 12,677 cwt. (£327,192) in 1913, 82 cwt. (£3,053) in 1922.

(Netherlands): 4,562 cwt. (£101,521) in 1913, 591 cwt. (£16,376) in 1922. (Belgium): 5,854 cwt. (£104,976) in 1913, 1,338 cwt. (£30,724) in 1922.

(France): 35,854 cwt. (£626,756) in 1913, 3,155 cwt. (£102,298) in 1922.

(Switzerland) : 1,964 cwt. (£30,257) in 1913, 617 cwt. (£18,706) in 1922.

(Italy); 2,384 cwt. (£46,793) in 1913, 389 cwt. (£15,186) in 1922.

(United States): 8,009 cwt. (£168,692) in 1913, 3,590 cwt. (£128,362) in 1922.

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TABLE B 111

EXPORTS OF LEATHER BOOTS AND SHOES

Total Exports: 1,452,815 doz. pairs (£4,194,276) in 1913, included in B 112

To Empire Countries : 1,044,849 doz. pairs (£2,633,861) in 1913, included in

To*Foreign Countries : 407,966 doz. pairs (£1,560,415) in 1913, included in

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EXPORTS OF MEN'S LEATHER BOOTS AND SHOES

- Total Exports : Included in B 111 for 1913, 186,672 doz. pairs (£1,430,675)
- To Empire Countries : Included in B 111 for 1913, 119,732 doz. pairs (£873,320) in 1922.
- To Foreign Countries : Included in B 111 for 1913, 66,940 doz. pairs (£557,355) in 1922.

TABLE B 113

EXPORTS OF WOMEN'S AND CHILDREN'S LEATHER BOOTS AND SHOES

Total Exports : Included in B 111 for 1913, 305,077 doz. pairs (£1,396,262) in 1922.

- To Empire Countries: Included in B 111 for 1913, 225,956 doz. pairs (£1,047,168) in 1922.
- To Foreign Countries : Included in B 111 for 1913, 79,121 doz. pairs (£348,094) in 1922.

TABLE B 114

EXPORTS OF LEATHER GLOVES

- Total Exports : 229,237 doz. pairs (£369,936) in 1913, 32,075 doz. pairs (£134,708) in 1922.
- To Empire Countries : 93,123 doz. pairs (£141,020) in 1913, 16,906 doz. pairs (£60,592) in 1922.
- To Foreign Countries : 136,114 doz. pairs (£228,616) in 1913, 15,169 doz. pairs (£74,116) in 1922.

TABLE B 115

EXPORTS OF LEATHER BELTING

Total Exports : 48,903 cwt. (£683,034) in 1913, 16,873 cwt. (£519,830) in 1922. To Empire Countries : 19,897 cwt. (£263,570) in 1913, 8,770 cwt. (£288,851) in 1922.

(British India)-

Bombay: 8,847 cwt. (£116,957) in 1913, 4,513 cwt. (£160,614) in 1922. Madras: 681 cwt. (£11,019) in 1913, 583 cwt. (£26,906) in 1922. Bengal, etc.: 4,747 cwt. (£57,056) in 1913, 1,222 cwt. (£33,011) in 1922. Burma: 435 cwt. (£4,362) in 1913, 117 cwt. (£2,923) in 1922.

Canada): 1,206 cwt. (£16,037) in 1913, 268 cwt. (£7,357) in 1922.

To Foreign Countries : 29,006 cwt. (£419,464) in 1913, 8,103 cwt. (£230,979) in 1022.

(Poland): Not known for 1913, 612 cwt. (£23,118) in 1922.

(Germany): 1,819 cwt. (£25,341) in 1913, 209 cwt. (£5,014) in 1922.

(France): 1,140 cwt. (£16,322) in 1913, 580 cwt. (£10,860) in 1922.

(China): 1,381 cwt. (£17,151) in 1913, 1,793 cwt. (£60,191) in 1922.

(Brazil): 2,175 cwt. (£33,133) in 1913, 371 cwt. (£12,024) in 1922. (Argentine Republic): 2,092 cwt. (£25,815) in 1913, 506 cwt. (£14,140) in 1922.

TABLE B 116

EXPORTS OF WOVEN HAIR OR COTTON MACHINERY BELTING

- Total Exports : 60,346 cwt. (£542,186) in 1913, 43,996 cwt. (£757,371) in 1922. To Empire Countries : 28,171 cwt. (£244,691) in 1913, 20,034 cwt. (£355,795) in 1022.
- To Foreign Countries : 32,175 cwt. (£297,495) in 1913, 23,962 cwt. (£401,576) in 1922.

TABLE B 117

EXPORTS OF MACHINERY BELTING, OTHER THAN LEATHER AND WOVEN HAIR AND COTTON

- Total Exports : 28,108 cwt. (£393,580) in 1913, 21,183 cwt. (£445,766) in 1922. To Empire Countries : 11,719 cwt. (£173,205) in 1913, 7,050 cwt. (£159,249) in 1022.
 - To Foreign Countries : 16,389 cwt. (£220,375) in 1913, 14,133 cwt. (£286,517) in 1922.

TABLE B 118

EXPORTS OF SADDLERY AND HARNESS

Total Exports : £445,459 in 1913, 11,427 cwt. (£183,461) in 1922. To Empire Countries : £266,890 in 1913, 9,462 cwt. (£112,004) in 1922. (Cape of Good Hope) : £44,896 in 1913, 544 cwt. (£8,250) in 1922. (Natal): £22,906 in 1913, 501 cwt. (£5,450) in 1922.

(Transvaal): £17,827 in 1913, 374 cwt. (£4,019) in 1922. (Australia): £61,111 in 1913, 1,496 cwt. (£31,468) in 1922. (New Zealand): £26,376 in 1913, 195 cwt. (£3,866) in 1922. (Canada): £16,749 in 1913, 4,569 cwt. (£17,824) in 1922. (British West India Islands): £11,150 in 1913, 482 cwt. (£10,043) in 1922.

To Foreign Countries : £178,569 in 1913, 1,965 cwt. (£72,457) in 1922. (United States): £21,991 in 1913, 984 cwt. (£44,340) in 1922.

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TABLE B 119

EXPORTS OF TRUNKS, BAGS, AND OTHER SOLID LEATHER GOODS

Total Exports : Included in B 123 for 1913, \pounds 136,134 in 1922. To Empire Countries : Included in B 123 for 1913, \pounds 58,893 in 1922. To Foreign Countries : Included in B 123 for 1913, \pounds 77,241 in 1922. (*United States*) : Included in B 123 for 1913, \pounds 49,026 in 1922.

TABLE B 120

EXPORTS OF FANCY LEATHER GOODS

Total Exports : Included in B 123 for 1913, £202,413 for 1922. To Empire Countries : Included in B 123 for 1913, £111,020 for 1922. (Australia) : Included in B 123 for 1913, £31,024 for 1922. (New Zealand) : Included in B 123 for 1913, £17,319 for 1922. (Canada) : Included in B 123 for 1913, £29,480 for 1922. To Foreign Countries : Included in B 123 for 1913, £91,303 for 1922. (United States) : Included in B 123 for 1913, £45,750 for 1922.

TABLE B 121

EXPORTS OF FANCY ARTIFICIAL LEATHER GOODS

Total Exports : Included in B 123 for 1913, $\pounds7,241$ for 1922. To Empire Countries : Included in B 123 for 1913, $\pounds4,556$ for 1922. To Foreign Countries : Included in B 123 for 1913, $\pounds2,685$ for 1922.

TABLE B 122

EXPORTS OF LEATHER SPORTS GOODS

Total Exports : Included in B 123 for 1913, £106,304 for 1922. To Empire Countries : Included in B 123 for 1913, £22,184 for 1922. (*Canada*) : Included in B 123 for 1913, £7,967 for 1922. To Foreign Countries : Included in B 123 for 1913, £84,120 for 1922. (*France*) : Included in B 123 for 1913, £19,247 for 1922. (*United States*) : Included in B 123 for 1913, £33,711 for 1922.

TABLE B 123

EXPORTS OF LEATHER MANUFACTURES NOT OTHERWISE SPECIFIED

Total Exports : $\pounds 682,759$ for 1913, $\pounds 210,180$ for 1922. To Empire Countries : $\pounds 348,567$ for 1913, $\pounds 95,702$ for 1922. To Foreign Countries : $\pounds 334,192$ for 1913, $\pounds 114,478$ for 1922. (France) : $\pounds 48,455$ for 1913, $\pounds 28,246$ for 1922. (United States) : $\pounds 63,324$ for 1913, $\pounds 15,856$ for 1922.

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The figures for 1913 contain those of articles which in 1922 are separately given in B 110 to B 122.

VOL. VI.---TO

LEATHER, HIDES, AND SKINS

TABLE B 124

UNITED KINGDOM

MATERIALS (OTHER THAN TANNING MATERIALS) CONSUMED BY LEATHER PRODUCERS, 1917

				Tons		Tons
Sulphide of sodium				2,900	Soap	30
Bisulphite of soda				1,000	Sulphonated oils .	2,500
Sodium hyposulphite				2,700	Degras	600
Bichromate of soda and	d pot	ash		1,200		2,750
Carbonate of soda				100	Neatsfoot oil	130
Chrome alum				20	Egg yolk	60
Repaired chrome liquo	r (15	per	cent		Linseed oil	200
chrome oxide) .			•	1,600		7,600
Borax .			-	270	Sod oil	130
Boric acid				380	Whale oil	140
Sulphuric acid .				2,200	Castor oil	130
Hydrochloric acid 🔪				1 500	Wool grease	190
Muriatıc acid 🛛 🖌	•			1,500	Distilled olein	90
Formic acid .			•	50	Paraffin wax	700
Acetic acid			•	290		1,800
Lactic acid	•			320	Refined currier's grease	700
Sulphite of alum .				410	Irish moss	30
Casein	•			10		1,600
Arsenic (a) red .			•	30	Logwood chips	600
,, (b) yellow			•	20	,, extract	45°
Carbolic (commercial)	•			30	Nigrosine	70
Sulphur	•	•	•	150	Redwood	60
Ammonia (*880) .	•		•	60	Fustic	40

TABLE B 125

Ireland

EXPORTS IN 1913 AND 1919

				Unit of	Qu	antity.	Val	ue £
Comm	odity.			Quantity.	1913	1919	1913	1919
Fat cattle	•			No.	354,953	531,842	6,307,811	20,628,822
Store cattle				,,	623,495	194,781	7,741,730	5,361,347
Milch cows	•	•	•	,,	40,805	29,879	669,803	1,033,780
Other cattle	•	•		"	37,226	68	479,414	2,327
Calves .	•	•	•	"	53, 142	8,681	265,710	117,194
Fat sheep	·	•	•	"	319,419	276,416	779,814	1,416,632
Store sheep	·	•	•	"	*	499		2,071
Lambs .	•	•	•	"	339,836	230,230	492,762	702,202

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GREAT BRITAIN AND IRELAND

TABLE B 125-(continued)

			Que	antity.	Value £		
Commodity		Unit of Quantity	1913	1919	1913	1919	
Feathers .		cwt.	20,324	17,869	42,680	83,389	
Glue		,,	5,134	4,152	7,701	24,912	
Hides and skins		,,	237,042	208,374	735,416	1,359,590	
Fleshings .		,,	5,604	23,403	1,121	9,361	
Leather		,,	6,055	11,070	54,495	221,400	
Boots and shoes		,,	3,801	4,305	40,148	148,415	
Saddlery .		,,	709	290	11,699	11,600	
Clogs		,,	. 7	103	32	1,159	
Horns and hoofs			475	3,134	809	7,835	
Hair, curled .		,,	5,383	5,646	30,145	57,872	

TABLE B 126

Ireland

IMPORTS IN 1913 AND 1919

					Qua	antity	Va	lue £
				Unit of				
Comm	odity			Quantity.	1913	1919	1913	1919
Myrobalans				cwt.	1,265	2,979	411	2,681
Sumach				tons	26	25	325	625
Gambier				,,	8	25	180	1,375
Valonia .				,,	143	12	1,359	360
Bark .				cwt.	3,825	1,052	1,530	1,157
Tanner's ext	ract			,,	14,965	10,393	8,231	18,188
Dyes and	tanni	ng	sub-					
stances, ur	iclass	ified	1.	,,	26,285	17,274	13,800	20,297
Glue .				,,	10,456	9,581	15,684	57,486
Hides and sk	ins			,,	5,934	8,867	27,077	77,324
Fleshings				,,	23,143	902	4,629	361
Leather.				,,	71,986	71,137	565,090	1,067,055
Boots and sh	oes			,,	158,485	156,066	1,673,998	5,380,375
Saddlery				,, *	5,002	2,929	82,533	108,373
Belting .				,,	1,298	935	20,768	30,855
Clogs .				,,	1,023	2,446	4,604	27,518
Horns and h	oofs			,,	173	159	295	398
Hair, curled	•			,,	7,815	10,019	43,764	102,695

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TRADE ASSOCIATIONS

(See after end of Section H)

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SECTION C INDIA

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SECTION C

INDIA

INDIA is under normal circumstances the most important country in the British Empire for the production of hides, skins, and tanning materials. This Section will deal with the various classes of her output under the following main heads: (1) raw hides; (2) raw skins; (3) tanning materials; (4) tanned hides; and (5) tanned skins; but before dealing with these in detail a general summary may be given.

Although in all the detailed tables to be referred to in this Section it will be necessary to deal with the Indian fiscal year (which ends on March 31st), it is also possible to use figures for the calendar years 1921 and 1922, and thus readily to make a satisfactory comparison with figures for certain other countries of the Empire. The export trade in Indian hides, skins, tanning materials and leather may be summarised as follows :---

			Value Rs. (000)	
		1913-1914	1931	1922
Raw hides		82,960	16,943	20,835
,, skins	•	33,904	33,640	36,749
Tanning materials .	•	6,784	6,917	10,005
Tanned hides and skins	•	42,502	34,551	46,911
Total		166,150	92,051	114,500

For the purpose of comparing with the corresponding output of other Empire countries, it is necessary to convert the rupee values to sterling. This presents no difficulty for 1913-14, where we can take 15 rupees to the \pounds as an accurate rate of exchange. The average of weekly rupee quotations for 1921 and 1922 were 1s. $4\frac{1}{2}d$. and 1s. $3\frac{8}{8}d$. respectively. It does not necessarily follow, however, that, in view of the fluctuations throughout these years, these are the appropriate rates of exchange for determining the sterling value of India's foreign trade, and a likely alternative method¹ was tried, but did not lead to useful results. In view of an anomaly brought out by this alternative method the results it gives are referred to, but for approximate purposes we are not far from the truth in taking 15 rupees to the \pounds for 1921 and 1922 as well as 1913.

The sterling value of India's exports were, accordingly, £11,000,000 in 1913-14, £6,100,000 in 1921, and £7,600,000 in 1922.

¹ The method referred to is to compare the export value per cwt. in rupees of certain items from India to the United Kingdom, with the corresponding import values per cwt. in χ of the same items into the United Kingdom from India. Allowances are necessary, however, for the fact that the Indian export value is f.o.b., while the import value for the United Kingdom is c.j.f. There is

CARRY ON A MARY

RAW HIDES

Table C 1 shows the comparison of the number of cattle in 1913-14 and in 1920-21 respectively, both for British India and the Native Indian States. The total number returned in the Census for 1913-14 was 157,000,000 and in the later one 178,000,000. The increase was almost entirely in the figures for the Indian States, which rose from 14,000,000 to 33,400,000, but it is probable that the increase is more indicative of defective returns at the earlier date than of real increase in numbers. At the later date 23,700,000 of the animals were returned as buffaloes, a distinction of importance to the leather industry, since it is not possible to obtain the same quality of leather from a buffalo-hide as from a bullock- or cow-hide. The Indian Industries Commission estimated that the true number of cattle in the country exceeded 180,000,000, and this estimate was accepted by the Indian Munitions Board in 1918 in its valuable *Review of the Trade in Indian Hides, Skins, and Leather*. No statistics are available of the number of cattle slaughtered per annum in India.

The *Review* expressed the opinion that 50 per cent of the hides which were available each year were exported in the raw state. Accepting this opinion, it would appear that the remaining 50 per cent were divided as to 10 per cent exported in the rough-tanned state and 40 per cent consumed in India.

Table C 2 shows the exports, by numbers, of hides from India in 1920-21 and 1921-22 in comparison with 1913-14. The post-War years referred to covered a period of very acute depression in Indian trade. The total exports, which were 11,750,000 hides in 1913-14, were down to 4,200,000 in 1920-21 and 6,100,000 in 1921-22. The figures for buffalo hides, included in these totals, were 1,970,000 in 1913-14, 350,000 in 1920-21, and 260,000 in 1921-22. The *Review* showed in detail (by weight) the exports of raw hides from India each year from 1880-81 till the outbreak of War. Between 1880 and 1914 the annual exports of these hides doubled, and it is of considerable interest to compare the yearly figures with the figures given on page 52 of Section B,

also, of course, the lag in time between export from India and import into United Kingdom to be borne in mind.

The comparisons made are as follows :---

				21	1922		
			Export value from India to U.K rupees per cwt.	Import value into UK. fiom India £ per cwt.	Export value from India to U.K rupces per cwt.	Import value into U.K. from India f per cwt.	
Raw hides .			36.2	4 48	33.0	3.99	
Myrobalans .			· 4·99	371	5.04	·365	
Tanned hides			112.0	7.71	117.0	7.41	
" goatskins			· 34.7	2.25	36.0	2 11	
" sheepskin	ιs.		. 31.2	2 15	28.4	2.10	

For 1921 the last four-named articles lead to the relationship between the f_{s} and the rupee of 13.5, 14.5, 15.4, and 14.5 rupees to the f_{s} respectively, but the figures for raw hides led to the very anomalous value of 8.1 rupees to the f_{s} . For 1922 the corresponding figures for the last four articles are 13.8, 15.8, 17.1, and 13.5 respectively, but again there is an anomalous value, viz. 8.3—reached in the case of the figures of raw hides. tracing the course of hide prices over the same period of years. Although the prices referred to English hides, the general course may be assumed to hold approximately also for other classes of hides. The exports of hides from India were at their lowest (in quantity) in 1889–94. Prices were at their lowest in 1893–94. From severat their lowest in random considerable rate and doubled in about twenty years, during a period in which prices were steadily rising. Though the hide is a by-product, and accordingly the value of the hide exercises no influence on the number of cattle, nevertheless high prices cause hides to come forward from remote areas in such countries as India which would not, were it not for the increase in price, become available.

Table C 3 shows in full detail the exports of raw cow-hides ("East India kips ") for 1913-14, 1920-21, and 1921-22. In the first period named 83 per cent went direct to foreign countries, and in the last one go per cent. Some of the hides coming to England were also transhipped to foreign countries. The biggest consumers, in the order named, in the pre-War period were Germany, Austria-Hungary, Italy, United States, and Spain. Germany commenced buying again in 1920, and in 1921–22 was again the biggest user, being followed by Italy and Spain. The table in the Review previously referred to traces the development of Germany's purchases of these hides and the corresponding diminution in the imports of the United Kingdom. The vegetable tanning of Indian kips was at one time a very important industry in England, particularly at Leeds. The development of chrome tanning, however, produced a remarkable change, the consumption of Germany and Austria increasing year by year until in 1913-14 these two countries between them took more than 50 per cent of the total exports. As described by the *Review* this trade was deliberately fostered by the German Government's fiscal policy, which, while allowing imports of raw hides free, progressively increased the duty on imported leather. This duty in 1876 was about 6 per cent ad valorem. Three years later it was increased to 10 per cent, while in 1906 a specific duty was imposed, which in actual operation varied from 15d. to 22d. per lb. Such a duty afforded complete protection to the home-produced article. Special encouragement, too, was given to the direct shipment of hides to Hamburg, and the control of Germany over the trade was consolidated by the combination of the seven principal exporting firms, all of which were either German or under German influence. A substantial proportion of the leather manufactured from these hides in Germany came to this country as imitation box calf or for soles for light boots and shoes.

The question of the recovery of this trade was one to which most serious attention was given during the War, and a committee appointed by the Imperial Institute, including tanners, shippers of hides, and representatives of the War Office, considered the steps which might be taken in order to prevent the loss of trade. The only one of the recommendations of this committee to which practical effect could be given was that of the imposition of a duty on the export of hides from India, with a preference (in the shape of a remission of a portion of the duty) in favour of all hides tanned within the Empire. This duty was first imposed in 1920, and for some time was undoubtedly instrumental in developing the tanning of Indian hides in that country. The unprecedented slump which, starting in 1920, afflicted the tanning industry until 1923, prevented full use being made of the assistance afforded by the duty. The Indian hide and skin industry was seriously affected by the slump—the value of the annual exports in 1920-22 was less than one-quarter of that of 1913-14—and on the grounds of economy in administration and of the urgency of removing every obstacle considered to be detrimental to Indian commerce, the export duty was as a whole reduced (to 5 per cent *ad valorem*) and the preference afforded in the case of skins tanned within the Empire entirely removed. The duty, as actually imposed, is not strictly on an *ad valorem* basis, but a schedule is adopted, and modified from time to time as prices change, which, while expressing the duty would produce. The schedule in operation at the end of 1923 is shown in Appendix C 1.

Particulars of the exports of raw buffalo hides are set out in Table C 4. In 1913-14 these amounted in value to more than one-third of the corresponding kips exported, but in 1921-22 the proportion was less than 8 per cent. In 1913-14, 90 per cent of these buffalo hides went to foreign countries, but in 1921-22 the proportion was only 50 per cent. Germany, before the War, did not take very large quantities of these buffalo hides, the chief users being the United States and Austria.

The export of raw calfskins is small in comparison with that of buffaloand cow-hides. Details are available separately for cow calfskins and for buffalo calfskins, and are set out in Tables C 5 and 6. About 20 per cent of these exports come to this country, but Spain and Italy are the chief users.

The great bulk of Indian hides are exported in the dry and dry-salted state or are arsenicated, a small proportion only (from Burma) being exported as wet-salted hides. Dry-salted hides come principally from the damp regions in the north-east of India, where they are prepared all the year round. Dacca is the principal hide centre in Eastern Bengal, but the hides from this area are frequently heavily adulterated.

Arsenicated hides—that is, air-dried hides preserved by dipping in a solution of arsenic—come from the North-West and the drier parts of India.

A description of the classification, mode of preparation, etc., of Indian hides and skins has been reprinted in pamphlet form by the Indian Trade Commissioner from two articles published in *Capital* in August and September, 1918. The deficiencies of Indian hides in the world's markets cannot be described better than in the words of the *Review* as follows :---

"The Indian hides trade suffers greatly from the careless and inefficient manner in which the majority of raw hides are collected and preserved. A specially undesirable feature of the trade is the deliberate overloading of dry-salted hides with dirt and cement and other substances on the flesh side in order artificially to increase the weight. A good deal of improvement had been effected before the War by the combination of the Calcutta

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exporting firms, but the position became worse after the War when there was a great deal of indiscriminate buying without regard to the cure. When Government became a purchaser they did their best to effect an improvement in this matter, but with little result, so that they were eventually driven to make the announcement that they would refuse to purchase any dry-salted hides which were not properly cured. The 'real Meherpore' cure was taken as the standard. This should in time lead to a real improvement in the cure, but immediate improvement was prevented by the continuance of indiscriminate purchases by Indian tanners. In the end the Government Committee has had to undertake the entire responsibility of purchases for Madras tanners in the Calcutta market."

Two other ways in which much valuable leather is lost to India are by the faulty method of flaying and the branding of cattle. The Indian Munitions Board has devoted much attention to attempts to improve matters in these respects. The attention of local governments and the public was early directed to these questions in a Press notice, and a pamphlet in simple language was subsequently prepared by the Director of Industries in Bengal which gave instructions as to the proper method of flaying and of preparing wet-salted, dry-salted, and air-dried hides. This pamphlet has been widely circulated through local governments to district officers and local bodies and to the Civil Veterinary Departments, and has been translated into a number of vernaculars. Direct action has also been taken in certain places to give instruction to chamars in the proper flaying and preservation of hides, and in several slaughter-houses, e.g. at Rangoon, local rules have been passed by which the flaving of cattle is now properly supervised. As an instance of what can be effected by proper management, reference may be made to the Bandra slaughter-house at Bombay, where control has been exercised directly by the Deputy-Controller, Hides, Bombay. By obtaining more time for the butchers to do their work properly and by paying a small premium for all well-flayed hides, the proportion of hides from this slaughter-house rendered unsuitable for Army work by faulty flaying has been reduced from about 60 per cent to less than 5 per cent. The Esociet Company of Maihar in Central India also reports excellent results in the improved condition of hides collected in the Indian States with which the company is associated. The improvement has been effected by securing to the chamars very high prices for well-preserved hides and very low prices for faultily preserved hides. Improvement in a matter of this kind in a country such as India is necessarily slow, but a beginning has at any rate been made.

The branding of cattle is a more difficult matter to deal with as it is bound up in some areas with the religious ideas and prejudices of the people. In some provinces, such as Burma, the practice is hardly known; in others it is very common, and in Ceylon it is said to be almost universal. Nearly all the Ceylon hides tendered to the Government in Madras have been ruined by branding. Where branding is necessary for purposes of identification, a small brand on the forehead or on the shark or even on the horn or hoof should be sufficient.

GOATSKINS

Table C 2 shows the figures of exports of goatskins from India by number. In 1913-14 the annual export was 19,700,000. In 1920-21 it was 11,250,000 and by 1921-22 it had increased to 23,800,000. Table C 8 shows in detail the exports to different countries. About 90 per cent are exported direct to foreign countries, while a portion of those coming in the first instance to this country are subsequently reshipped to other countries. The United States takes 78 per cent of the total exports. The exports of goatskins from India multiplied more than twelvefold in the twenty-five years preceding the War. This enormous peculiarly development arose through the invention of chrome tanning, which was adapted for use to goatskins. The Tables on page 18 in the first Section of this book show that India possesses nearly one-third of the goats of the world. The best form for indicating the position of India as a supplier of goatskins in comparison with other countries is by means of the figures showing the imports of skins into the United States, which country is by far the biggest consumer of goatskins. These are set out in detail in Table C 40. Out of a total of 43,380,000 skins imported, not less than 21,600,000, or nearly 50 per cent, came from India, China being next with 10,900,000, followed by Brazil with 4,100,000. The goatskins exported from India annually are sufficient to supply the upper leather for a pair of boots or shoes to each man, woman, and child in Great Britain.

The whole of the goatskins shipped from the North of India are in the raw state, either as dry-salted or wet-salted. A big percentage of the skins shipped from Bombay are also in the raw state, but an appreciable proportion from this neighbourhood are rough-tanned and exported to London for disposal through the public sales held every two months. The skins from the north are usually handled in the tabular form, that is the animal is flayed by having its skin drawn over the head, instead of being cut along the belly. They are sold under the name of the particular district from which they come, such as Amritsar or Patna, either by linear measurement or by weight per 100 skins. The finest grade of goatskins come from the Madras district, but the flaying of these is frequently bad. At one time a bigger proportion were tanned locally than at present. Many varieties are recognised coming from this district, but they can be generally divided into two main descriptions, (1) Northern, which include Coconadas and Bezwadas, and (2) Southern, from the hilly district in Bengal. The southern are the better value; they have a better grain and a somewhat finer substance than the skins from the more low-lying districts. The Review described the trade in raw skins as follows :----

"Unlike Indian hides, Indian skins are mostly obtained from animals which have been slaughtered for food. They are therefore relatively much superior in quality to Indian hides. For export purposes Indian skins are mostly dry-salted with the hair on, but sometimes they are flintdried and occasionally wet-salted in the hair or unhaired and then pickled in a solution of alum and salt. Each firm has its own standard for sorting

into firsts, seconds, etc. The more important varieties of goatskins are distinguished by the names of the areas from which they come. The following are among the principal varieties: Daccas, Dinajpores, Durbangas, Mozaffarpores, North-Westerns, Amritsars. The last-named is a trade term for the large-sized goatskins from this and other Punjab districts. North-Westerns are also large skins, giving from 80 to 120 feet of leather per dozen. Skins from Bombay, Madras, Hyderabad, and the Deccan are mainly used by the Madras and Bombay tanneries."

Reference should here be made to the subject of anthrax in connection with hides and skins. British official statistics show that an appreciable proportion of the cases of anthrax caused by hides or skins in Great Britain come from Indian hides and skins.

India's chief interest in anthrax arises through its connection with goat hair, which, on importation into this country, requires to go through a disinfecting process. The Indian Government hold the view that so far as regards hides and skins the solution of the problem lies rather in regulating tanners using hides and skins than in expensive methods of disinfecting at the port of shipment or of arrival. They are nevertheless considering the problem at the producer's end, and are developing an arrangement by which at the time of shipment a certificate would be given by some authority indicating the districts from which the hides or skins originally came. They contemplate subsequently the possibility of getting a certificate from the districts in question indicating whether or not it is free from anthrax. The view of the Indian Government is that until a Convention on the subject of anthrax has been accepted by the League of Nations, who, as mentioned in Section B, have the subject under consideration, they should not be called upon to take further action.

SHEEPSKINS

The export of raw sheepskins from India is comparatively small, being in 1921-22 only 3 per cent in value of the exports of raw hides and less than $1\frac{1}{2}$ per cent of the exports of raw goatskins. Table C 2 shows the numbers exported, the 1913-14 figure of 2,400,000 being reduced to 1,600,000 in 1920-21 and to 600,000 in 1921-22. Table C 9 gives the details of exports to various countries. Before the War 94 per cent went to foreign countries (nearly 90 per cent to the United States) and in 1921-22, 88 per cent.

The number of sheep in the North of India is small in comparison with the number of goats. In the south, however, the quantities of the two varieties of skins produced are nearly equal, but a much bigger proportion of the sheepskins are tanned. The quality of the sheep improves progressively from north to south, and, as in the case of goats, the best come from the hilly districts of Dindigul, Trichinopoly, and Coimbatore. The sheep in these districts are known as red-hair sheep, and the wool or hair is of very little value. The high prices realised for wool during the last few years has tended to introduce a class of sheep into these districts whose wool would be of more value, with

the result that present-day pelts are much more mixed in character and no longer as true to type as they used to be.

TANNING MATERIALS

By far the most important of India's tanning materials is myrobalans. The details of exports are given in Table C 10. The total exports in 1913-14 and in 1921-22 were almost exactly the same both in quantity--62,000 tons-and in rupee value--5,750,000 rupees. Among Empire tanning materials myrobalans are now second to wattle bark from South Africa. Sixty per cent of the exports in 1913-14 went to foreign countries, and 67 per cent in 1921-22, the United Kingdom, Germany, and the United States being the most important consumers, followed by Belgium, France, Australia, and Holland. In addition, in recent years, some myrobalan extract has been exported, amounting in value to about 8 per cent of the crude myrobalans in 1921-22. Most of this extract came to the United Kingdom.

The best account of the trade in Indian myrobalans is that contained in the Report of the Special Committee of Tanners and Shippers on Hides and Tanning Materials appointed during the War by the Imperial Institute and presided over by Professor Wyndham Dunstan, and special reference should be made to the report published by the Imperial Institute in 1922 for a comprehensive view of the whole trade. The only side of the question which need be mentioned here is that of the trade varieties used, on which subject the report states "there are five principal varieties of myrobalans recognised in commerce, and usually two grades in each variety. The varieties which are named after the districts in India from which the fruits are obtained are as follows: 'Bimlies' or 'B's' from Bimlipatam in Madras; 'Jubbelpores' or 'J's' from Jubbulpore in the Central Provinces (obtained partly from British territory and partly from the Native State of Rewah); 'Rajpores' or 'R's' from the Kohlapur State; 'Vingorlas' or 'V's' from the Bombay forests; and 'Coast Madras.' Each of these different varieties is usually separated into two grades known as No. 1 and No. 2."

The other tanning materials exported from India are cutch and divi-divi. The former comes from Burma, but is used principally for tanning nets. Divi-divi, an exotic plant, has been successfully grown in Madras, and small quantities are exported. Burma also has large mangrove forests, the varieties in some of which are similar to the Madagascar mangrove, which is used to a fairly large extent for tanning. Attempts have been made to use this Burma mangrove for the production of a tanning extract, but so far with little success.

A tanning material of which practically none is exported but very large quantities used in India is avarum or turwad. It was estimated that the consumption of this in the tanneries making war leathers was 80,000 maunds per month, equivalent to 12,000 tons per year. A great deal has been written on Indian tanning materials by Mr. J. A. Pilgrim and others in papers referred to in the Bibliography, and special reference may be made in particular to

Bulletin No. 1 of the Government Tannin Research Factory, and to the paragraphs on tanning materials in the *Review of Indian Trade in Hides*, *Skins, and Leather.* Summary figures of the exports of Indian dyeing and tanning substances are given in Table C 12, while details of countries of destination for (a) cutch and gambier, and (b) tanning barks, are given in Tables C 13 and C 14 respectively. Before the War nearly two-thirds of the cutch exported came to this country, but the post-War figures are smaller. The bulk of the bark exported goes to Ceylon.

LEATHER

The leather exported from India consists almost entirely of rough-tanned hides, rough-tanned goatskins, and rough-tanned sheepskins requiring further treatment before use. Table C 15 shows the details (by value) of the exports to various countries in the three years previously mentioned. The rupee value of the total exports was 42,500,000 in 1913-14 and 40,300,000 in 1921-22; the former figure was equivalent to $f_{2,600,000}$. Nearly 90 per cent in the first-named period and over 70 per cent in the last-named came to the United Kingdom. As pointed out in the previous Section, however, substantial quantities of the rough-tanned goat- and sheepskins coming to London are subsequently re-exported. Japan in 1921-22 took 11 per cent of the exports, as against 3 per cent before the War.

TANNED HIDES

The exports of tanned cow-hides are shown in detail in Table C 16 and of tanned buffalo-hides in C 17. Although many countries are mentioned in the tables, the only one taking substantial quantities is the United Kingdom (with the exception that in 1921-22, 12 per cent of the exports were shipped to Hong-Kong). The buffalo-hides exported amount in quantity to about 10 per cent of the cow-hides, but only 6 per cent of the value.

These tanned hides, by the trade name of "E.I. Tanned Kips," are the raw material for important industries in Northampton, Leeds, and other parts of Great Britain, the leather being curried and dressed for boot upper leather, laces, bags, etc. During the War this material was of paramount importance for the manufacture of upper leather for Army boots, the majority of the boots which were manufactured for the Allied Armies having uppers of Indian tanned kips. The development of chrome tanning had serious effects on the currying of vegetable-tanned upper leather, but there is still a substantial trade in this leather for the heavier class of working-man's boot.

With the exception of a large tannery and leather works in Cawnpore and a tannery in Madras run on European lines, most of the Indian tanneries are situated in the south, some in the Bombay district, but most in the Madras Presidency. There is also a large chrome tannery at Pallavaram, employing in 1019 about 1000 hands. The Madras tanneries, from the European point of view, are small concerns, and hand. Labour is the only kind employed.

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Probably the chief reason for the existence of these tanneries is the fact of the exceedingly large supplies of turwad bark, which grows wild in the jungle of the neighbourhood. Official statistics show that the number of tanneries in Madras were as follows :---

				No of tanneries	Average No of labourers employed daily
Hide tar	neries			204	5,307
Skin	,,	•	•	132	4,948 3,968
Mixed	,,	•	•	114	3,968
				450	14,223
				450	-+,3

Practically all the tanned hides shipped from India are exported from Bombay and Madras, the latter port being by far the most important in the trade. There is not very much difference in the quality shipped from the two ports, but on the average Bombay is the better, due to the rather better type of hide available in that area. The great bulk of the Madras tanned hides are shipped by various exporting firms in "original bales" under the description of the name of the district from which the hide was drawn. A small percentage of the Madras tanned hides, and practically all the Bombay tanned hides, however, are consigned to various brokers in London for assortment and are sold by auction. There are innumerable grades of "original bales" which are generally sent over on a well-established basis of classification, e.g. 20 per cent second class, 60 per cent third class, and 20 per cent fourth class. There are two main varieties of tanned hides from Madras, the well-grown or Bangalore type which is tanned from the hides produced round about the plateau of which Bangalore is the centre, and the coast hide, which is usually a lighter and spreadier description, supplies for which are drawn from the more low-lying districts up to Coconada and beyond.

Before the War the tanned hides were rather freely adulterated with various weighting materials. This adulteration reached remarkable dimensions up to about fifteen years ago, but by continual pressure exercised by curriers through the shippers the abuse was curtailed, and by 1914 the amount of adulteration was small in comparison with previous years. During the War a considerable amount of Government control was introduced into the industry in view of the vital necessity of tanning as many hides as possible into leather suitable for Army boots. At one time there was a serious danger of shortage of upper leather for Army boots and the organisation by which the Indian Government controlled the Indian hide and tanning trade was the most important factor operating to overcome the difficulties. The question of the improper weighting of hides was one to which the Controller had early to turn his attention, and the attitude of the Indian Government on this highly important from the official *Review of the Trade in Indian Hides, Skins, and Leather :-*

"An opportunity was afforded by the Government control to deal

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with the question of the adulteration and improper weighting of hides. In the early days of the Government scheme it was found that adulteration of hides by the addition in course of tannage of magnesium salts, sugar, and other adulterants was on the increase. One instance came to notice of a parcel of hides being adulterated to the extent of 20 per cent with Epsom salts. The leather adulterated in this way was liable to be completely spoilt, or at the best considerable expense was incurred by the adulterants having to be washed out in England. Attempts were made to check this practice by penalising heavily all adulterated hides presented to Government and by refusing altogether badly adulterated hides. Adulteration is not, however, in all cases easily detected without chemical analysis, and eventually, with the full approval of the commercial community in Madras, the practice of adulterating hides was made a penal offence by an order passed under the Defence of India Rules. To the credit of the Madras tanners it should be stated that in no single case has it been found necessary to proceed against a tanner for non-observance of these orders. In addition to this form of adulteration it used to be a prevailing practice in the case of certain tannages-notably ' Bangalores '---to add weight to the hide by the application after tannage of chalk and plaster to the flesh side. The practice—which did not occur in Bombay tannages—although not injurious to the leather in the same way as adulteration, adds nothing to its value, but is merely a form of artificial weighting. The chalk and the plaster has in all cases to be washed off by the currier in England before the hides can be used. The plastering of the hides also results in cuts on the flesh side being disguised. This practice was also prohibited by an order under the Defence of India Rules. The result has been that several of the so-called distinctive tannages in Madras have become practically indistinguishable from one another, and instead of recognising eight or nine separate tannages it has been possible to classify all Madras tannages into four grades-prime, best, good, and ordinary-each of the first three being sub-divided into two classes according to their growth and spread. 'Ordinary' hides were thin hides without sufficient substance for Army work and were classed as non-Army selection. There is evidence that this simplified classification and the prohibition of artificial weighting of hides has been appreciated by the Home trade. The question of adopting permanent measures to prevent adulteration after the War has been taken up by the Controller of Munitions at Madras, and the views of the commercial community are understood to be generally in favour of some action being taken, though agreement has not been arrived at regarding details. It is not too much to hope that the improvements effected as a war measure may not be entirely lost in time of peace, as they should enhance the reputation of East India kips in the Home markets."

Unless another devastating world event occurs the future of the trade in Indian hides seems assured of development. The gradual progress towards a higher standard of living throughout the world will be accompanied with a demand for leather at a greater rate than cattle supplies can increase, and the demand for hides from such countries as India is likely to increase.

TANNED GOATSKINS

Table C 18 gives in detail the figures of exports of tanned goatskins. Ninety per cent are shipped to the United Kingdom, and most of the remainder go direct to the United States. A substantial proportion of those reaching the United Kingdom are subsequently re-exported, particulars of this trade being given in Table B 19 of Section B. Large quantities before the War were re-exported to Germany and Austria, where they were used for the manufacture of a variety of fancy leather goods and other objects, many of which were subsequently exported to this country. Owing to the difficulties of the industries concerned in Austria and Germany, the exports of these tanned goatskins from India after the War have been on a much smaller scale than was the case before the War. Tanned goatskins from India have not suffered from adulteration like the tanned hides have. Their chief characteristics are evenness, good substance, and small offal, which make them very suitable for fancy goods.

The tanning of goatskins was prohibited during a considerable part of the War in order that all the resources of the tanneries could be concentrated on turning out leather of use for military purposes, and this industry has not yet recovered much of its pre-War trade, as has the corresponding hide-tanning industry. Though Germany has come back into the trade and France has increased her capacity America, on the other hand, has almost ceased to be a buyer of tanned skins, and is taking practically nothing but raw skins which she is using for full chrome purposes. The quantity of goatskins tanned depends upon the relative prices in the world's market of the raw goatskins and the tanned, and in the latter part of 1923, when the price of the raw skin was very high, the number tanned was barely 50 per cent of the pre-War quantity.

TANNED SHEEPSKINS

Table C 19 gives in detail the figures of exports of tanned sheepskins. About 60 per cent of these are shipped to the United Kingdom, and particulars of the subsequent re-exports of these were shown in Table B 20 of Section B. Large quantities went direct to the United States before the War, and the falling off in this trade which has occurred since the War has been more than balanced by the increased shipments to Japan, which country is now second only to the United Kingdom as a consumer of Indian-tanned sheepskins. The most important use for which Indian sheepskins are tanned is the production of roller leather. A substantial number of Indian sheepskins have been used for roller leather in England (the number was about 300,000 per year during the War), and there has been a considerable trade in the export of roller skins from England to the textile mills in India. As in many other matters, however, India now produces a substantial amount towards her own requirements and

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the Review of the Trade in Indian Hides, Skins, and Leather referred to this development as follows :---

"Considerable success has also been attained in the manufacture of roller skins for use in cotton mills. The production of these skins is a highly specialised branch of the light leather trade and mill-owners throughout the world generally prefer the British-made skins. It is a matter therefore for congratulation that Indian tanners have made a great advance towards meeting the requirements of Indian mills. The Bombay Millowners' Association's estimate of the consumption of roller skins in cotton mills in India is 400,000 skins annually, or about 700 dozens weekly. The standard of the consumption in Lancashire mills is given by a recognised authority as four skins per week for every 10,000 spindles, but for various reasons, climatic and other, the average expenditure for this country is put at a dozen skins for the same period. The complaints generally made against the Indian-made roller skins are (1) that they are inelastic and therefore split when being put on the roller or get loose after being put on; (2) that they are uneven, either because the hair is not completely removed or because there are blemishes or because the skin was originally not of uniform thickness; and (3) that the prepared side is not smooth and glossy enough. While these defects, or at least some of them, are not uncommon, a large number of good skins are now produced and several manufacturers have expressed themselves as quite satisfied with Indian-made skins. The production in India has developed so rapidly that in October, 1917, four of the chief manufacturers were placing 750 dozens of roller skins weekly on the market, a figure in excess of the consumption of the cotton mills, and the out-turn in India may be estimated now at about 1,200 dozens per week. The excess not required in India is being exported, principally to Japan."

The tanning of sheepskins was also prohibited during the second half of the War, but it is clear from statistics of exports that the industry very readily recovered from this.

LEATHER MANUFACTURES

The industries engaged in the manufacture of leather goods developed considerably during the War. Particulars of the output of boots and shoes and saddlery and harness are given in Chapter XI of *The Review of the Trade in Indian Hides, Skins, and Leather.* Details of the exports of boots and shoes from India are given in Table C 23, these showing a considerable increase for the post-War years over 1913-14. The only other leather manufactures which call for mention here are those for the requirements of India's textile mills. These have in the past been supplied mainly from this country, but also from Australia and Japan, but the development of manufacture in India is leading to the supplanting of the Baitish by the Indian article. The *Review* gives the following table of leather articles required in the

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Bengal jute mills in 1919, and the extent to which these are supplied by local tanneries :---

			consumption per month of all mills.	now being supp	lied by
			180 cwt.	20 per ce	ent
			170 ,,	12 ,,	
			60,000 feet	~	
			80 cwt.	TO	
			20 ,,	20	
eather	on e	lge,			
•	•	•	60 ,,	6 ,,	
•	•	•	58,800 pieces	10 ,,	
	eather	eather on ea	eather on edge,	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

IMPORTS OF HIDES, SKINS, AND TANNING MATERIALS

Although infinitesimal in comparison with her export trade in hides, skins, and tanning materials, India has a certain import trade also in these articles, and particulars of these imports are set out in Tables C 24, 25, 26, and 27. Small quantities of hides and skins are received from many countries other than those named. The only point in these tables calling for special comment is the fact, indicated by Table C 26, that India, since the War, has been importing wattle bark from South Africa, over 2000 tons being received in the year 1920-21.

IMPORTS OF LEATHER

A substantial amount of leather is imported into India, amounting to Rs.4,000,000 in 1913-14, Rs.12,900,000 in 1920-21, and Rs.6,600,000 in 1921-22, of which about 90 per cent came from Empire countries, mainly United Kingdom (Table C 28). Details of the hide leather are shown in Table C 29 and of skin and leather in C 30. A feature of the India official import returns and one indicative of the importance of the textile industry in that country, is the fact that figures are published of the imports of roller skins, picking bands and straps and pickers. These are shown in Tables C 32, 33, and 34 respectively. Practically the whole of the imports of these articles come from the United Kingdom, amounting in the aggregate to about Rs.4,400,000 in 1920-21, and Rs.3,600,000 (say £240,000) in 1921-22.

Table C 35 gives particulars of the imports of boots, and the very great falling off in the imports from the United Kingdom is the noteworthy feature of the table. From 1,900,000 pairs in 1913-14 India's imports of boots from this country fell to 68,000 pairs only in 1921-22. Ninety-nine per cent of the boots received in 1913-14 came from other Empire countries, but in 1920-21 and 1921-22 the percentages were only 53 and 70 respectively.

Statistics of imports of leather belting for machinery are set out in Table C 36. There was an appreciable falling off in the post-War imports in comparison with 1913-14 (see also Table B 115 in Section B), though the proportion from the Empire diminished from 93 per cent in 1913-14 to 83 per cent in 1920-21

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and 88 per cent in 1921-22. Leather belting represents only about one-half of the total amount of machinery belting imported into India.

The figures of imports of saddlery and harness in Table C 37 call for no special comment, practically the whole coming from the United Kingdom. Those of bags and trunks in Table C 38 indicate the advent of Japan as a supplier of leather goods for India.

IMPORT TARIFF

There is an import tariff on all leather and leather manufactures imported, the rate of duty being 15 per cent *ad valorem* with no preference for the Empire.

SUMMARY OF INDIAN TRADE IN HIDES AND SKINS AND LEATHER

The position of India's foreign trade in hides, skins, tanning materials and leather in 1921 and 1922 can be summarised as follows :---

, i i i i i i i i i i i i i i i i i i i	-	110	ies and Skins.	Tanning Materials	Leather	Leather Manufacturers
			£(000)	£(000)	£(000)	£(000)
Production	1921		4,700	600	8,700	13,300
	1922		5,300	800	12,000	20,000
Imports	1921		small		900	1,600
-	1922		small		500	800
Exports	1921		3,300	500	2,200	100
-	1922		3,800	700	2,700	_30
Consumption	1921		1,400	100	7,400	14,800
•	1922		1,500	100	9,800	20,800

Number of Cattle in British India and Indian States, 1913–14 and 1920–21. No. (000)

			NC), (000)				
				Brit	ish India		Indian Sta	
				1913-14			13-14	1920-21
Bulls					1 5,61	8 .)	1,467
Bullocks .				47,505	£ 43,31		955 >	0.081
	•	•	•					9,280
Cows	•	•		36,477	37,08		403	
Young stock				40,984	30,71		896	6,423
Buffaloes .				5,250	5,43	7	246	1,038
Cow buffaloes .				12,964	13,31	2 1.	526	3,926
Young stock (buffalo ca	Iver)			,	9,61			2,184
Toung stock (Bullato ea	1100)	•	•	1	9,01			-,+
Total .								
Iotai .	•	·	• •	143,180	145,10	3 14	,026	33,399
	+ I:	nclude	d in "	Young Stoc	k " (calves).		
	1.2	101440	u 111	roung stoe		,.		
	NTIME		SUEER	IN REITICE	t India an	'n		
	TAOMP					D		
		INL	DIAN 51	ATES, 1920	-21			
British India	•		•	•			074,566	
Indian States						12,	499,213	
			-					
	NUME				h India ai	ND.		
		Ini	dian St	TATES, 1920	-21			
British India						24	293,873	
Indian States		•	•	•	•••		276,073	
indian States	•	•	•	·	•	. 0,	270,073	
	NUMB	ER OF	MILES	IN BRITIS	H INDIA A	ND		
				TATES, 1020				
British India		114	DIAL D	1, 1920				
	•	•	•	• •	• •	·	75,703	
Indian States	•	•	•	• •	•		5,689	
,	T	·	D	D	· · · · · · · · · · · · · · · · · · ·			
1	NUMBE				ISH INDIA	AND		
		IN	dian S'	FATES, 1920	-21			
British India						. I,	370,614	
Indian States							332,256	
					• •	•	55-,-5-	
Nu	MBER (of Ho	RSES AN	D PONIES I	in British	INDIA		
		AND	Indian	STATES, 1	020-21			
				, -	/	Yo	ung Stock	
				Horses	🐐 Mare	s (Colt	s & Fillies),
British India				763,971	696,9		35,855	
Indian States			,	212,413	202,3		86,585	
stronge Acatho	•	• •	•	***,413	404,3	\$*	49,202	
							-	-
şi								

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Exports	OF	Raw	HIDES
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			Value Rs (000).								
Buffalo-hides Cow-hides Calfskıns Other hides		1913-14	1920-21	1921-22	1913-14	1920-21	1921-22				
	·	. 1,967,018	347,728	256,432	22,037	2,638	1,214				
		. 8,967,518	3,345,796	5,422,235	59,055	16,248	16,286				
	·	. 809,550	529,995	385,093	1,831	1,128	636				
	·	. 5,200	223	2	37	I					
Total	•	. 11,749,286	4,223,742	6,063,762	82,960	20,015	18,136				
EXPORTS OF RAW SKINS											
Goatskins . Sheepskins Other skins		19,690,958	11,237,305	23,820,710	31,277	30,127	40,960				
		. 2,373,122	1,592,336	595,646	2,610	2,032	547				
	•	. 5,796	49,609	11,393	17	191	53				
Total		. 22,069,876	12,879,250	24,427,749	33,904	32,350	41,560				
EXPORTS OF LEATHER											
	- .		Value Rs. (00	0)							
1913-14			1920-21		1921-22						
42,511			12,827			11,677					

TABLE C 3

EXPORTS FROM INDIA OF RAW COW-HIDES

- Total Exports: 743,037 cwt. (Rs.59,055,000) in 1913-14, 281,260 cwt. (Rs.16,250,000) in 1920-21, 445,100 cwt. (Rs.16,286,000) in 1921-22.
- To Empire Countries : 23,976 cwt. (Rs.1,682,000) in 1913-14, 61,660 cwt. (Rs.3,486,000) in 1920-21, 45,180 cwt. (Rs.1,529,000) in 1921-22.
- (United Kingdom): 14,919 cwt. (Ks.942,000) in 1913, 42,120 cwt. (Rs.2,669,000) in 1920-21, 21,040 cwt. (Rs.793) in 1921-22.
- (Straits Settlements): 26 cwt. (Rs.1,000) in 1913–14, 17,300 cwt. (Rs.706,000) in 1920–21, 23,580 cwt. (Rs.719,000) in 1921–22.
- To Forcign Countries : 719,061 cwt. (Rs.57,373,000) in 1913-14, 219,600 cwt. (Rs.12,764,000) in 1920-21, 399,920 cwt. (Rs.14,757,000) in 1921-22.
- (Germany): 356,195 cwt. (Rs.28,547,000) in 1913-14, 63,140 cwt. (Rs.3,270,000) in 1920-21, 217,240 cwt. (Rs.8,403,000) in 1921-22.
- (Belgium): 20,435 cwt. (Rs.1,368,000) in 1913-14, 1,880 cwt. (Rs.91,000) in 1920-21, 4,060 cwt. (Rs.131,000) in 1921-22.
- (Spain): 41,865 cwt. (Rs.3,821,000) in 1913-14, 27,660 cwt. (Rs.1,628,000) in 1920-21, 58,240 cwt. (Rs.2,147,000) in 1921-22.
- (Italy): 92,662 cwt. (Rs.7,520,000) in 1913-14, 59,140 cwt. (Rs.2,818,000) in 1920-21, 92,000 cwt. (Rs.3,132,000) in 1921-22.
- (Austria-Hungary): 141,537 cwt. (Rs.11,451,000) in 1913-14, 1,820 cwt. (Rs.05,000) in 1920-21, 240 cwt. (Rs.8,000) in 1921-22.
- (United States): 36,820 cwt. (Rs.2,580,000) in 1913-14, 39,560 cwt. (Rs.3,443,000) in 1920-21, 340 cwt. (Rs.24,000) in 1921-22.

EXPORTS FROM INDIA OF RAW BUFFALO-HIDES

- Total Exports : 345,864 cwt. (Rs.22,038,000) in 1913-14, 66,140 cwt. (Rs.2,639,000) in 1920-21, 46,480 cwt. (Rs.1,213,000) in 1921-22.
- To Èmpire Countries : 30,174 cwt. (Rs.1,562,000) in 1913-14, 19,800 cwt. (Rs.673,000) in 1920-21, 23,060 cwt. (Rs.568,000) in 1921-22.
- (United Kingdom): 26,254 cwt. (Rs.1,464,000) in 1913-14, 17,320 cwt. (Rs.616,000) in 1920-21, 16,960 cwt. (Rs.466,000) in 1921-22.
- To Foreign Countries: 315,690 cwt. (Rs.20,476,000) in 1913-14, 46,340 cwt. (Rs.1,966,000) in 1920-21, 23,420 cwt. (Rs.645,000) in 1921-22.
- (Germany): 30,785 cwt. (Rs.2,015,000) in 1913-14, 8,900 cwt. (Rs.356,000) in 1920-21, 13,540 cwt. (Rs.432,000) in 1921-22.
- (Holland): 32,485 cwt. (Rs.2,110,000) in 1913-14, 2,500 cwt. (Rs.74,000) in 1920-21, 740 cwt. (Rs.18,000) in 1921-22.
- (Austria-Hungary): 91,736 cwt. (Rs.6,693,000) in 1913–14, 1,140 cwt. (Rs.24,000) in 1920–21.
- (United States): 114,476 cwt. (Rs.7,711,000) in 1913-14, 21,760 cwt. (Rs.1,152,000) in 1920-21.

TABLE C 5

EXPORTS FROM INDIA OF COW CALFSKINS

- Total Exports : 13,320 cwt. (Rs.837,000) in 1920–21, 10,940 cwt. (Rs.497,000) in 1921–22.
- To Empire Countries : 1,740 cwt. (Rs.108,000) in 1920–21, 2,100 cwt. (Rs.50,000) in 1921–22.
- (United Kingdom): 1,740 cwt. (Rs.108,000) in 1920-21, 2,100 cwt. (Rs.49,000) in 1921-22.
- To Foreign Countries: 11,580 cwt. (Rs.729,000) in 1920–21, 8,840 cwt. (Rs.447,000) in 1921–22.
- (Spain): 7,340 cwt. (Rs.487,000) in 1920–21, 4,880 cwt. (Rs.271,000) in 1921–22.

(Italy): 640 cwt. (Rs.44,000) in 1920-21, 3,260 cwt. (Rs.153,000) in 1921-22.

TABLE C 6

EXPORTS FROM INDIA OF BUFFALO CALFSKINS

- Total Exports : 8,120 cwt. (Rs.290,000) in 1920–21, 5,280 cwt. (Rs.139,000)
- To Empire Countries : 1,600 cwt. (Rs.74,000) in 1920–21, 1,000 cwt. (Rs.13,000) in 1921–22.
- (United Kingdom): 1,600 cwt. (Rs.74,000) in 1920-21, 1,000 cwt. (Rs.13,000) in 1921-22.

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- To Foreign Countries: 6,520 cwt. (Rs.216,000) in 1920–21, 4,280 cwt. (Rs.126,000) in 1921–22.
- (Germany): 1,260 cwt. (Rs.56,000) in 1920–21, 740 cwt. (Rs.38,000) in 1921–22. (*Italy*): 1,760 cwt. (Rs.46,000) in 1920–21, 1,420 cwt. (Rs.33,000) in 1921–22. (*United States*): 1,400 cwt. (Rs.54,000) in 1920–21, 620 cwt. (Rs.14,000) in 1922–22.

TABLE C 7

EXPORTS FROM INDIA OF ALL CALFSKINS

- Total Exports : 26,116 cwt. (Rs.1,831,000) in 1913-14, 21,440 cwt. (Rs.1,129,000) in 1920-21, 16,220 cwt. (Rs.636,000) in 1921-22.
- To Empire Countries : 956 cwt. (Řs.75,000) in 1913-14, 3,340 cwt. (Rs.183,000) in 1920-21, 3,100 cwt. (Rs.63,000) in 1921-22.
- (United Kingdom): 913 cwt. (Rs.69,000) in 1913-14, 3,340 cwt. (Rs.182,000) in 1920-21, 3,100 cwt. (Rs.62,000) in 1921-22.
- To Foreign Countries: 25,160 cwt. (Rs.1,756,000) in 1913-14, 18,100 cwt. (Rs.946,000) in 1920-21, 13,120 cwt. (Rs.573,000) in 1921-22.
- (Germany): 1,213 cwt. (Rs.86,000) in 1913–14, 1,400 cwt. (Rs.67,000) in 1920–21, 860 cwt. (Rs.43,000) in 1921–22.
- (Spain): 6,843 cwt. (Rs.587,000) in 1913–14, 7,440 cwt. (Rs.490,000) in 1920–21, 6,240 cwt. (Rs.311,000) in 1921–22.
- (Italy): 6,822 cwt. (Rs.490,000) in 1913–14, 2,400 cwt. (Rs.90,000) in 1920–21, 4,680 cwt. (Rs.185,000) in 1921–22.
- (United States): 4,076 cwt. (Rs.176,000) in 1913-14, 2,040 cwt. (Rs.80,000) in 1920-21, 860 cwt. (Rs.22,000) in 1921-22.

TABLE C 8

EXPORTS FROM INDIA OF RAW GOATSKINS

- Total Exports: 453,356 cwt. (Rs.31,278,000) in 1913-14, 207,640 cwt. (Rs.30,125,000) in 1920-21, 433,780 cwt. (Rs.40,960,000) in 1921-22.
- To Èmpire Countries : 43,252 cwt. (Rs.2,368,000) in 1913-14, 51,960 cwt. (Rs.7,796,000) in 1920-21, 51,960 cwt. (Rs.4,146,000) in 1921-22.
- (United Kingdom): 40,259 cwt. (Rs.2,084,000) in 1913-14, 46,120 cwt. (Rs.6,362,000) in 1920-21, 38,820 cwt. (Rs.2,443,000) in 1921-22.
- (Canada): 990 cwt. (Rs.93,000) in 1913-14, 2,860 cwt. (Rs.513,000) in 1920-21, 7,360 cwt. (Rs.611,000) in 1921-22.
- (Ausiralia): 1,964 cwt. (Rs.186,000) in 1913-14, 2,980 cwt. (Rs.919,000) in 1920-21, 5,780 cwt. (Rs.1,091,000) in 1921-22.
- To Foreign Countries: 410,104 cwt. (Rs.28,910,000) in 1913-14, 155,680 cwt. (Rs.22,329,000) in 1920-21, 381,800 cwt. (Rs.36,814,000) in 1921-22.
- (Germany): 11,118 cwt. (Rs.1,055,000) in 1913-14, 1,200 cwt. (Rs.110,000) in 1920-21, 3,500 cwt. (Rs.368,000) in 1921-22.

(Holland): 23,551 cwt. (Rs.2,358,000) in 1913-14, 7,660 cwt. (Rs.614,000) in 1920-21, 29,600 cwt. (Rs.2,850,000) in 1921-22.

(Belgium): 8,935 cwt. (Rs.713,000) in 1913-14, 1,720 cwt. (Rs.235,000) in 1920–21, 1,460 cwt. (Rs.118,000) in 1921–22.

(France): 22,717 cwt. (Rs.1,850,000) in 1913-14, 5,820 cwt. (Rs.1,230,000) in 1920-21, 12,620 cwt. (Rs.1,401,000) in 1921-22.

(United States): 342,452 cwt. (Rs.22,754,000) in 1913-14, 138,040 cwt. (Rs.19,919,000) in 1920-21, 333,440 cwt. (Rs.32,007,000) in 1921-22.

TABLE C 9

EXPORTS FROM INDIA OF RAW SHEEPSKINS

- Total Exports : 33,067 cwt. (Rs.2,611,000) in 1913-14, 26,280 cwt. (Rs.2,033,000) in 1920-21, 8,280 cwt. (Rs.546,000) in 1921-22.
- To Empire Countries: 1,939 cwt. (Rs.188,000) in 1913-14, 7,600 cwt. (Rs.475,000) in 1920-21, 1,020 cwt. (Rs.135,000) in 1921-22. (United Kingdom): 1,599 cwt. (Rs.141,000) in 1913-14, 7,200 cwt. (Rs.433,000)
- in 1920-21, 920 cwt. (Rs.127,000) in 1921-22.

To Foreign Countries: 31,128 cwt. (Rs 2,423,000) in 1913-14, 18,780 cwt. (Rs.1,558,000) in 1920-21, 7,260 cwt. (Rs.411,000) in 1921-22. (United States): 28,818 cwt. (Rs.2,269,000) in 1913-14, 16,540 cwt.

(Rs.1,427,000) in 1920–21, 5,820 cwt. (Řs.341,000) in 1921–22.

TABLE C 10

EXPORTS FROM INDIA OF MYROBALANS

- Total Exports : 1,236,394 cwt. (Rs.5,695,000) in 1913-14, 792,934 cwt. (Rs.4,079,000) in 1920-21, 1,238,937 cwt. (Rs.5,866,000) in 1921-22.
- To Empire Countries : 520,341 cwt. (Rs.2,215,000) in 1913-14, 344,542 cwt.
- (Rs.1,909,000) in 1920-21, 402,357 cwt. (Rs.1,874,000) in 1921-22. (United Kingdom): 504,001 cwt. (Rs.2,140,000) in 1913-14, 324,773 cwt.
- (Rs.1,789,000) in 1920-21, 362,711 (Rs.1,712,000) in 1921-22. (Australia): 10,597 cwt. (Rs.51,000) in 1913-14, 12,686 cwt. (Rs.83,000) in
- 1920–21, 25,411 cwt. (Rs.113,000) in 1921–22.
- To Foreign Countries: 716,053 cwt. (Rs.3,480,000) in 1913-14, 448,393 cwt. (Rs.2,170,000) in 1920–21, 836,580 cwt. (Rs.3,992,000) in 1921–22.
- (Germany): 270,767 cwt. (Rs.1,347,000) in 1913-14, 55,480 cwt. (Rs.311,000) in 1920-21, 396,499 cwt. (Rs.2,153,000) in 1921-22.
- (Belgium): 136,028 cwt. (Rs.685,000) in 1913-14, 47,366 cwt. (Rs.309,000) in 1920–21, 65,047 cwt. (Rs.332,000) in 1921–22.
- (France): 40,814 cwt. (Rs.185,000) in 1913-14, 20,602 cwt. (Rs.137,000) in 1920-21, 40,380 cwt. (Rs.222,000) in 1921-22. (United States): 187,288 cwt. (Rs.855,000) in 1913-14, 293,699 cwt.

(Rs.1,254,000) in 1920-21, 270,187 cwt. (Rs.1,032,000) in 1921-22.

EXPORTS FROM INDIA OF MYROBALAN EXTRACT

- Total Exports : 32,559 cwt. (Rs.643,000) in 1920-21, 39,944 cwt. (Rs.490,000) in 1921-22.
- To Empire Countries: 28,165 cwt. (Rs.542,000) in 1920–21, 29,127 cwt. (Rs.360,000) in 1921–22.
- (United Kingdom): 22,016 cwt. (Rs.406,000) in 1920–21, 23,854 cwt. (Rs.295,000) in 1921–22.
- (Australia): 4,632 cwt. (Rs.103,000) in 1920–21, 3,193 cwt. (Rs.38,000) in 1921–22.
- To Foreign Countries: 4,394 cwt. (Rs.101,000) in 1920-21, 10,817 cwt. (Rs.130,000) in 1921-22.

TABLE C 12

EXPORTS OF DYEING AND TANNING SUBSTANCES

					Quantity (Co	wt)	Value Rs (000)		
				1920-21	1913-14	1921-22	1920-21	1913-14	1921-22
Barks for tanning				7,673	t	4,886	51	†	27
Cutch and gambier				39,386	58,859	29,653	873	932	562
Indigo Myrobalans Myrobalan extract	•			10,250	10,939	12,362	4,121	2,129	5,137
		•		792,934	1,236,394	1,238,937	4,078	5,694	5,867
		•	32,559		39,944	642		489	
Safflower				3,364	3,983	1,543	66	59	23
Turmeric			•	54,765	115,027	48,187	977	1,313	911
Other sorts			•	15,174	42,117	19,299	187	276	206
Total	ι.	•		956,105	1,467,319	1,394,811	10,995	10,403	13,222

+ Not separately recorded before 1920.

TABLE C 13

EXPORTS FROM INDIA OF CUTCH AND GAMBIER

- Total Exports : 58,859 cwt. (Rs.932,000) in 1913-14, 39,386 cwt. (Rs.874,000) in 1920-21, 29,653 cwt. (Rs.563,000) in 1921-22.
- To Empire Countries: 36,748 cwt. (Rs.579,000) in 1913-14, 30,230 cwt. (Rs.675,000) in 1920-21, 13,108 cwt. (Rs.259,000) in 1921-22.
- (United Kingdom): 33,599 cwt. (Rs.521,000) in 1913-14, 26,311 cwt. (Rs.577,000) in 1920-21, 10,941 cwt. (Rs.198,000) in 1921-22.
- (Ceylon): 1,283 cwt. (Rs.20,000) in 1913-14, 477 cwt. (Rs.14,000) in 1920-21, 683 cwt. (Rs.20,000) in 1921-22.
- (Hong-Kong): 1,435 cwt. (Rs.27,000) in 1913-14, 3,131 cwt. (Rs.76,000) in 1920-21, 880 cwt. (Rs.26,000) in 1921-22.

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To Foreign Countries: 22,111 cwt. (Rs.353,000) in 1913-14, 9,156 cwt. (Rs.199,000) in 1920-21, 16,545 cwt. (Rs.304,000) in 1921-22.

(Germany): 3,848 cwt. (Rs.57,000) in 1913-14, 100 cwt. (Rs.2,000) in 1920-21, 1,587 cwt. (Rs.26,000) in 1921-22.

(Holland) : 5,630 cwt. (Rs.94,000) in 1913-14, 1,450 cwt. (Rs.29,000) in 1920-21, 3,775 cwt. (Rs.72,000) in 1921-22.

(France): 8,760 cwt. (Rs.143,000) in 1913-14, 4,340 cwt. (Rs.98,000) in 1920-21, 2,150 cwt. (Rs.36,000) in 1921-22.

(Japan): 1,529 cwt. (Rs.31,000) in 1920–21, 4,752 cwt. (Rs.102,000) in 1921–22. (United States): 1,705 cwt. (Rs.28,000) in 1973–14, 1,506 cwt. (Rs.32,000) in 1920–21, 4.003 cwt. (Rs.61,000) in 1921–22.

(, 4,005 0001 (10001,000) III 1921 22

TABLE C 14

EXPORTS FROM INDIA OF BARKS FOR TANNING

- Total Exports : 7,673 cwt. (Rs.51,000) in 1920–21, 4,886 cwt. (Rs.27,000) in 1921–22.
- To Empire Countries : 4,609 cwt. (Rs.25,000) in 1920–21, 4,770 cwt. (Rs.25,000) in 1921–22.
- (Ceylon): 4,052 cwt. (Rs.23,000) in 1920-21, 4,065 cwt. (Rs.20,000) in 1921-22.
- To Foreign Countries : 3,064 cwt. (Rs.26,000) in 1920-21, 116 cwt. (Rs.2,000) in 1921-22.

TABLE C 15

EXPORTS FROM INDIA OF LEATHER (TOTAL VALUE)

- Total Exports: Rs.42,502,000 in 1913–14, Rs.32,954,000 in 1920–21, Rs.40,337,000 in 1921–22.
- To Empire Countries: Rs.37,225,000 in 1913-14, Rs.27,862,000 in 1920-21, Rs.33,348,000 in 1921-22.
- (United Kingdom): Rs.36,551,000 in 1913-14, Rs.25,352,000 in 1920-21, Rs.28,812,000 in 1921-22.
- (Straits Settlements): Rs.440,000 in 1913-14, Rs.1,621,000 in 1920-21, Rs.1,837,000 in 1921-22.
- (Hong-Kong): Rs.39,000 in 1913-14, Rs.526,000 in 1920-21, Rs.1,657,000 in 1921-22.
- To Foreign Countries: Rs.5,277,000 in 1913-14, Rs.5,182,000 in 1920-21, Rs.6,989,000 in 1921-22.
- (Germany): Rs.457,000 in 1913-14, Rs.123,000 in 1920-21, Rs.240,000 in 1921-22.
- (China): Rs.36,000 in 1913-14, Rs.141,000 in 1920-21, Rs.252,000 in 1921-22.
- (Japan) : Rs. 1,326,000 in 1913-14, Rs.2,437,000 in 1920-21, Rs.4,406,000 in 1921-22.
- (Unitéd States): Rs.3,114,000 in 1913-14, Rs.1,553,000 in 1920-21, Rs.1,280,000 in 1921-22.

(France): Rs.326,000 in 1920-21, Rs.82,000 in 1921-22.

(Netherlands): Rs.135,000 in 1920-21, Rs.377,000 in 1921-22.

EXPORTS FROM INDIA OF TANNED COW-HIDES

- Total Exports: 158,383 cwt. (Rs.14,740,000) in 1913-14, 70,260 cwt. (Rs.9,811,000) in 1920-21, 109,940 cwt. (Rs.13,024,000) in 1921-22.
- To Empire Countries : 156,285 cwt. (Rs.14,541,000) in 1913-14, 65,720 cwt. (Rs.9,281,000) in 1920-21, 106,440 cwt. (Rs.12,588,000) in 1921-22.
- (United Kingdom): 155,550 cwt. (Rs.14,461,000) in 1913-14, 60,680 cwt. (Rs.8,807,000) in 1920-21, 91,260 cwt. (Rs.10,694,000) in 1921-22.
- (Straits Settlements): 142 cwt. (Rs.11,000) in 1913-14, 2,280 cwt. (Rs.199,000) in 1920-21, 680 cwt. (Rs.107,000) in 1921-22.
- (Hong-Kong): 24 cwt. (Rs.3,000) in 1913-14, 2,080 cwt. (Rs.179,000) in 1920-21, 13,100 cwt. (Rs.1,618,000) in 1921-22.
- To Foreign Countries: 2,098 cwt. (Rs.199,000) in 1913-14, 4,540 cwt. (Rs.530,000) in 1920-21, 3,500 cwt. (Rs.436,000) in 1921-22.
- (China): 272 cwt. (Rs.27,000) in 1913-14, 660 cwt. (Rs.64,000) in 1920-21, 1,680 cwt. (Rs.193,000) in 1921-22.
- (United States): 829 cwt. (Rs.65,000) in 1913-14, 2,400 cwt. (Rs.260,000) in 1920-21, 200 cwt. (Rs.28,000) in 1921-22.
- (Nethérlands): 820 cwt. (Rs.89,000) in 1920-21, 1,120 cwt. (Rs.116,000) in 1921-2.
- (Germany): 120 cwt. (Rs.16,000) in 1920-21, 380 cwt. (Rs.76,000) in 1921-22.

TABLE C 17

EXPORTS FROM INDIA OF TANNED BUFFALO HIDES

- Total Exports : 15,545 cwt. (Rs.1,128,000) in 1913-14, 5,420 cwt. (Rs.525,000) in 1920-21, 10,120 cwt. (Rs.790,000) in 1921-22.
- To Empire Countries: 14,174 cwt. (Rs.1,007,000) in 1913-14, 5,140 cwt. (Rs.404,000) in 1920-21, 8,940 cwt. (Rs.645,000) in 1921-22.
- (United Kingdom): 14,047 cwt. (Rs.992,000) in 1913-14, 4,120 cwt. (Rs.403,000) in 1920-21, 7,160 cwt. (Rs.470,000) in 1921-22.
- (Egypt): 40 cwt. (Rs.11,000) in 1920-21, 820 cwt. (Rs.91,000) in 1921-22.
- *(Kenyá Colony)*: 380 cwt. (Rs.38,000) in 1920–21; 460 cwt. (Rs.48,000) in 1921–22.
- To Foreign Countries : 1,371 cwt. (Rs.121,000) in 1913–14, 280 cwt. (Rs.31,000) in 1920–21, 1,180 cwt. (Rs.145,000) in 1921–22.

TABLE C 18

EXPORTS FROM INDIA OF TANNED GOATSKINS

- Total Exports: 74,126 cwt. (Rs.16,107,000) in 1913-14, 16,480 cwt. (Rs.7,333,000) in 1920-21, 24,000 cwt. (Rs.8,254,000) in 1921-22.
- To Empire Countries : 66,527 cwt. (Rs.14,503,000) in 1913–14, 15,360 cwt. (Rs.6,877,000) in 1920–21, 21,580 cwt. (Rs.7,577,000) in 1921–22.

- (United Kingdom): 66,446 cwt. (Rs.14,487,000) in 1913-14, 15,320 cwt. (Rs.6,863,000) in 1920-21, 21,560 cwt. (Rs.7,562,000) in 1921-22.
- To Foreign Countries: 7,599 cwt. (Rs.1,604,000) in 1913-14, 1,120 cwt. (Rs.456,000) in 1920-21, 2,420 cwt. (Rs.677,000) in 1921-22.
- (Germany): 1,663 cwt. (Rs.424,000) in 1913-14, 20 cwt. (Řs.9,000) in 1920-21, 180 cwt. (Rs.64,000) in 1921-22.
- (United States): 5,846 cwt. (Rs.1,162,000) in 1913-14, 580 cwt. (Rs.182,000) in 1920-21, 1,600 cwt. (Rs.406,000) in 1921-22.
- (France): 340 cwt. (Rs.214,000) in 1920-21, 40 cwt. (Rs.22,000) in 1921-22.
- (Netherlands): Rs.6,000 in 1920-21, 320 cwt. (Rs.108,000) in 1921-22.

EXPORTS FROM INDIA OF TANNED SHEEPSKINS

- Total Exports: 49,652 cwt. (Rs.9,586,000) in 1913-14, 36,460 cwt. (Rs.12,669,000) in 1920-21, 55,180 cwt. (Rs.15,735,000) in 1921-22.
- To Empire Countries: 31,431 cwt. (Rs.6,302,000) in 1913-14, 24,260 cwt. (Rs.9,090,000) in 1920-21, 35,060 cwt. (Rs.10,313,000) in 1921-22.
- (United Kingdom): 29,202 cwt. (Rs.5,886,000) in 1913-14, 20,160 cwt. (Rs.7,946,000) in 1920-21, 28,440 cwt. (Rs.8,767,000) in 1921-22.
- (Straits Settlements): 1,718 cwt. (Rs.338,000) in 1913-14, 3,800 cwt. (Rs.1,055,000) in 1920-21, 6,360 cwt. (Rs.1,487,000) in 1921-22.
- To Foreign Countries: 18,221 cwt. (Rs.3,284,000) in 1913-14, 12,200 cwt. (Rs.3,579,000) in 1920-21, 20,120 cwt. (Rs.5,422,000) in 1921-22.
- (Japan): 7,459 cwt. (Rs.1,320,000) in 1913-14, 8,780 cwt. (Rs.2,386,000) in 1920-21, 16,180 cwt. (Rs.4,322,000) in 1921-22.
- (United States): 10,365 cwt. (Rs.1,883,000) in 1913-14, 2,720 cwt. (Rs.950,000) in 1920-21, 2,600 cwt. (Rs.748,000) in 1921-22.

TABLE C 20

EXPORTS FROM INDIA OF TANNED COW CALFSKINS

- Total Exports : 4,560 cwt. (Rs.922,000) in 1920-21, 5,220 cwt. (Rs.675,000) in 1921-22.
- To Empire Countries: 4,440 cwt. (Rs.904,000) in 1920–21, 5,140 cwt. (Rs.667,000) in 1921–22.
- (United Kingdom): 4,420 cwt. (Rs.901,000) in 1920–21, 5,120 cwt. (Rs.664,000) in 1921–22.
- To Foreign Countries: 120 cwt. (Rs.18,000) in 1920-21, 80 cwt. (Rs.8,000) in 1921-22.

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EXPORTS FROM INDIA OF TANNED BUFFALO CALFSKINS

- Total Exports : 1,200 cwt. (Rs.215,000) in 1920–21, 980 cwt. (Rs.94,000) in _____1921–22.
- To Empire Countries : 1,160 cwt. (Rs.209,000) in 1920–21, 940 cwt. (Rs.89,000) in 1921–22.
- United Kingdom): 1,160 cwt. (Rs.209,000) in 1920-21, 940 cwt. (Rs.89,000) in 1921-22.
- To Foreign Countries: 40 cwt. (Rs.6,000) in 1920–21, 40 cwt. (Rs.5,000) in 1921–22.

TABLE C 22

EXPORTS FROM INDIA OF LEATHER UNWROUGHT

- Total Exports: 1,189 cwt. (Rs.187,000) in 1913-14, 8,144 cwt. (Rs.1,064,000) in 1920-21, 4,539 cwt. (Rs.695,000) in 1921-22.
- To Empire Countries : 826 cwt. (Řs. 149,000) in 1913–14, 6,008 cwt. (Rs. 782,000) in 1920-21, 4,109 cwt. (Rs. 605,000) in 1921–22.
- United Kingdom): 131 cwt. (Rs.25,000) in 1913-14, 407 cwt. (Rs.131,000) in 1920-21, 498 cwt. (Rs.115,000) in 1921-22.
- Straits Settlements): 229 cwt. (Rs.85,000) in 1913-14, 2,553 cwt. (Rs.338,000) in 1920-21, 1,594 cwt. (Rs.220,000) in 1921-22.
- Hong-Kong): 197 cwt. (Rs.9,000) in 1913-14, 2,645 cwt. (Rs.229,000) in 1920-21, 231 cwt. (Rs.26,000) in 1921-22.
- Mesopotamia): 1,325 cwt. (Rs.179,000) in 1921-22.
- Egypt): 200 cwt. (Rs.44,000) in 1920-21, 260 cwt. (Rs.28,000) in 1921-22.
- To Foreign Countries : 363 cwt. (Rs.38,000) in 1913–14, 2,136 cwt. (Rs.282,000) in 1920–21, 430 cwt. (Rs.90,000) in 1921–22.
- Persian Gulf): 5 cwt. (Rs.1,000) in 1913-14, 575 cwt. (Rs.105,000) in 1920-21.
- Persia): 140 cwt. (Rs.24,000) in 1913-14, 124 cwt. (Rs.23,000) in 1920-21, 54 cwt. (Rs.9,000) in 1921-22.
- Java): 8 cwt. (Rs.3,000) in 1913-14, 822 cwt. (Rs.43,000) in 1920-21, 104 cwt. (Rs.27,000) in 1921-22.
- China): 171 cwt. (Rs.6,000) in 1913-14; 496 cwt. (Rs.61,000) in 1920-21, 169 cwt. (Rs.18,000) in 1921-22.

TABLE C 23

EXPORTS FROM INDIA OF BOOTS AND SHOES

- Total Exports : 51,987 pairs (Rs.67,000) in 1913–14, 273,923 pairs (Rs.1,316,000) in 1920–21, 136,954 pairs (Rs.462,000) in 1921–22.
- Co Empire Countries: 37,054 pairs (Rs.65,000) in 1913–14, 86,283 pairs (Rs.364,000) in 1920–21; 102,227 pairs (Rs.372,000) in 1921–22. vol. vi.-12

(Aden and Dependencies): 8,246 pairs (Rs.10,000) in 1913-14, 9,064 pairs (Rs.24,000) in 1920-21, 11,721 pairs (Rs.24,000) in 1921-22.

(*Mauritius*): 12,990 pairs (Rs.15,000) in 1913-14, 6,454 pairs (Rs.29,000) in 1920-21, 12,004 pairs (Rs.49,000) in 1921-22.

(Zanzibar): 3,855 pairs (Rs.5,000) in 1913-14, 9,189 pairs (Rs.21,000) in 1920-21, 11,129 pairs (Rs.22,000) in 1921-22.

(*East Africa*): 2,452 pairs (Rs.6,000) in 1913-14, 14,951 pairs (Rs.40,000) in 1920-21, 10,903 pairs (Rs.23,000) in 1921-22.

(Mesopotamia): 34,181 pairs (Rs.171,000) in 1921-22.

(*Egypt*): 21,436 pairs (Rs.174,000) in 1920–21, 832 pairs (Rs.13,000) in 1921–22.

- To Foreign Countries: 14,933 pairs (Rs.22,000) in 1913–14, 187,640 pairs (Rs.052,000) in 1920–21, 34,727 pairs (Rs.90,000) in 1921–22.
- (Turkey): 1,436 pairs (Rs.3,000) in 1913-14, 102,472 pairs (Rs.577,000) in 1920-21.
- (Arabia): 1,720 pairs (Rs.2,000) in 1913–14, 2,710 pairs (Rs.3,000) in 1920–21, 15,260 pairs (Rs.43,000) in 1921–22.
- (Persia): 1,679 pairs (Rs.3,000) in 1913-14, 13,243 pairs (Rs.43,000) in 1920-21, 5,748 pairs (Rs.16,000) in 1921-22.

(Greece): 51,666 pairs (Rs.273,000) in 1920-21.

TABLE C 24

IMPORTS INTO INDIA OF RAW HIDES

- Total Imports : 4,021 cwt. (Rs.162,000) in 1913-14, 3,560 cwt. (Rs.109,000) in 1920-21, 8,120 cwt. (Rs.183,000) in 1921-22.
- From Empire Countries : 2,146 cwt. (Rs.74,000) in 1913-14, 2,920 cwt. (Rs.84,000) in 1920-21, 5,700 cwt. (Rs.147,000) in 1921-22.
- (Ceylon): 735 cwt. (Rs.23,000) in 1913-14, 2,700 cwt. (Rs.72,000) in 1920-21, 3,760 cwt. (Rs.96,000) in 1921-22.
- From Foreign Countries : 1,875 cwt. (Rs.88,000) in 1913–14, 640 cwt. (Rs.25,000) in 1920–21, 2,420 cwt. (Rs.36,000) in 1921–22.

TABLE C 25

IMPORTS INTO INDIA OF RAW SKINS

- Total Imports : 28,885 cwt. (Rs.1,355,000) in 1913-14, 12,140 cwt. (Rs.937,000) in 1920-21, 11,980 cwt. (Rs.798,000) in 1921-22.
- From Empire Countries: 15,754 cwt. (Rs.738,000) in 1913–14, 8,040 cwt. (Rs.676,000) in 1920–21, 9,320 cwt. (Rs.672,000) in 1921–22.
- (United Kingdom): 491 cwt. (Rs.43,000) in 1913-14, 60 cwt. (Rs.9,000) in 1920-21, 680 cwt. (Rs.39,000) in 1921-22.
- (Aden and Dependencies): 4,304 cwt. (Rs.200,000) in 1913-14, 900 cwt. (Rs.49,000) in 1920-21, 700 cwt. (Rs.43,000) in 1921-22.
- (Bahrem Íslands): 1,129 cwt. (Rs.47,000) in 1913-14, 340 cwt. (Rs.19,000) in 1920-21, 500 cwt. (Rs.16,000) in 1921-22.

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- (Ceylon): 7,988 cwt. (Rs.352,000) in 1913-14, 5,820 cwt. (Rs.538,000) in 1920-21, 4,480 cwt. (Rs.433,000) in 1921-22.
- (Straits Settlements): 1,614 cwt. (Rs.84,000) in 1913-14, 780 cwt. (Rs.49,000) in 1920-21, 880 cwt. (Rs.45,000) in 1921-22.
- From Foreign Countries: 13,131 cwt. (Rs.617,000) in 1913-14, 4,100 cwt. (Rs.261,000) in 1920-21, 2,660 cwt. (Rs.126,000) in 1921-22.
- (Maskat Territory): 905 cwt. (Rs.75,000) in 1913-14, 1,040 cwt. (Rs.78,000) in 1920-21, 680 cwt. (Rs.46,000) in 1921-22.
- (Persia): 10,723 cwt. (Rs.441,000) in 1913-14, 2,720 cwt. (Rs.152,000) in 1920-21, 1,740 cwt. (Rs.67,000) in 1921-22.

TABLE C 26

IMPORTS INTO INDIA OF BARKS FOR TANNING

- Total Imports : 42,589 cwt. (Rs.42,000) in 1920-21, 24,211 cwt. (Rs.189,000) in 1921-22.
- From Empire Countries: 42,589 cwt. (Rs.42,000) in 1920-21, 23,650 cwt. (Rs.186,000) in 1921-22.
- (Natal): 41,934 cwt. (Rs.38,000) in 1920-21, 23,603 cwt. (Rs.186,000) in 1921-22.
- To Foreign Countries : 561 cwt. (Rs.3,000) in 1921-22.

TABLE C 27

Imports into India of Dyeing and Tanning Substances, Cutch and Gambier

- Total Imports : 43,296 cwt. (Rs.826,000) in 1913-14, 30,599 cwt. (Rs.1,000,000) in 1920-21, 40,760 cwt. (Rs.1,114,000) in 1921-22.
- From Empire Countries : 43,296 cwt. (Rs.826,000) in 1913-14, 30,599 cwt. (Rs.1,000,000) in 1920-21, 40,558 cwt. (Rs.1,108,000) in 1921-22.
- (Straits Settlements): 43,290 cwt. (Rs.826,000) in 1913-14, 30,421 cwt. (Rs.995,000) in 1920-21, 40,229 cwt. (Rs.1,101,000) in 1921-22.
- From Foreign Countries : 202 cwt. (Rs.6,000) in 1921-22.

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TABLE C 28

IMPORTS INTO INDIA OF LEATHER (TOTAL VALUE)

- Total Imports : Rs.4,000,000 in 1913-14, Rs.12,862,000 in 1920-21, Rs.6,642,000 in 1921-22.
- From Empire Countries : Rs.3,524,000 in 1913-14, Rs.11,110,000 in 1920-21, Rs.6,137,000 in 1921-22.
- (United Kingdom): Rs.3,334,000 in 1913-14, Rs.10,692,000 in 1920-21, Rs.5,858,000 in 1921-22.

(Ceylon): Rs.132,000 in 1913-14, Rs.164,000 in 1920-21, Rs.111,000 in 1921-22. (Australia): Rs.43,000 in 1913-14, Rs.220,000 in 1920-21, Rs.130,000 in 1921-22.

From Foreign Countries: Rs.476,000 in 1913-14, Rs.1,752,000 in 1920-21, Rs.505,000 in 1921-22.

(Germany): Rs.233,000 in 1913-14, Rs.50,000 in 1920-21, Rs.83,000 in 1921-22. (Holland): Rs.12,000 in 1913-14, Rs.106,000 in 1920-21, Rs.87,000 in 1921-22. (Japan): Rs.47,000 in 1913-14, Rs.423,000 in 1920-21, Rs.66,000 in 1921-22. (United States): Rs.72,000 in 1913-14, Rs.1,057,000 in 1920-21, Rs.187,000

in 1921-22.

TABLE C 29

IMPORTS INTO INDIA OF HIDES TANNED OR DRESSED

Total Imports : 2,218 cwt. (Rs.361,000) in 1913-14, 8,360 cwt. (Rs.1,173,000) in 1920-21, 1,900 cwt. (Rs.285,000) in 1921-22.

From Empire Countries: 2,164 cwl. (Rs.353,000) in 1913-14, 8,340 cwt. (Rs.1,150,000) in 1920-21, 1,880 cwt. (Rs.266,000) in 1921-22.

(United Kingdom): 853 cwt. (Rs.230,000) in 1913-14, 6,800 cwt. (Rs.986,000) in 1920-21, 600 cwt. (Rs.157,000) in 1921-22.

(Ceylon): 1,306 cwt. (Rs.122,000) in 1913-14, 1,460 cwt. (Rs.146,000) in 1920-21, 1,240 cwt. (Rs.104,000) in 1921-22.

From Foreign Countries: 54 cwt. (Rs.8,000) in 1913-14, 20 cwt. (Rs.23,000) in 1920-21, 20 cwt. (Rs.19,000) in 1921-22.

TABLE C 30

IMPORTS INTO INDIA OF SKINS TANNED OR DRESSED

Total Imports : 2,558 cwt. (Rs.1,177,000) in 1913–14, 1,320 cwt. (Rs.878,000) 1920–21, 340 cwt. (Rs.297,000) in 1921–22.

From Empire Countries : 2,256 cwt. (Rs.985,000) in 1913-14, 1,260 cwt. (Rs.741,000) in 1920-21, 280 cwt. (Rs.212,000) in 1921-22.

(United Kingdom): 2,230 cwt. (Rs.981,000) in 1913-14, 1,240 cwt. (Rs.723,000) in 1920-21, 200 cwt. (Rs.175,000) in 1921-22.

(Australia): 20 cwt. (Rs.3,000) in 1913-14, 20 cwt. (Rs.17,000) in 1920-21, 20 cwt. (Rs.20,000) in 1921-22.

From Foreign Countries : 302 cwt. (Rs.192,000) in 1913–14, 60 cwt. (Rs.137,000) in 1920–21, 60 cwt. (Rs.85,000) in 1921–22.

(United Śtates): 33 cwt. (Rs.18,000) in 1913-14, 60 cwt. (Rs.122,000) in 1920-21, Rs.32,000 in 1921-22.

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TABLE C 31

IMPORTS INTO INDIA OF LEATHER UNWROUGHT

- Total Imports : 3,302 cwt. (Rs.577,000) in 1913-14, 2,599 cwt. (Rs.1,245,000) in 1920-21, 825 cwt. (Rs.374,000) in 1921-22.
- From Empire Countries: 3,120 cwt. (Rs.526,000) in 1913-14, 2,179 cwt. (Rs.866,000) in 1920-21, 796 cwt. (Rs.329,000) in 1921-22. (United Kingdom): 2,857 cwt. (Rs.488,000) in 1913-14, 2,074 cwt. (Rs.820,000)
- (United Kingdom): 2,857 cwt. (Rs.488,000) in 1913–14, 2,074 cwt. (Rs.820,000) in 1920–21, 663 cwt. (Rs.275,000) in 1921–22.
- (Australia): 237 cwt. (Rs.29,000) in 1913-14, 95 cwt. (Rs.44,000) in 1920-21, 61 cwt. (Rs.49,000) in 1921-22.
- From Foreign Countries : 173 cwt. (Rs.51,000) in 1913–14, 420 cwt. (Rs.379,000) in 1920–21, 29 cwt. (Rs.45,000) in 1921–22.
- (United States): 59 cwt. (Rs.11,000) in 1913-14, 414 cwt. (Rs.359,000) in 1920-21, 5 cwt. (Rs.21,000) in 1921-22.

TABLE C 32

IMPORTS INTO INDIA OF ROLLER SKINS (TOTAL VALUE)

Total Imports : Rs.1,560,000 in 1920-21, Rs.1,684,000 in 1921-22. From Empire Countries : Rs.1,560,000 in 1920-21, Rs.1,671,000 in 1921-22. (United Kingdom) : Rs.1,560,000 in 1920-21, Rs.1,671,000 in 1921-22. From Foreign Countries : Rs.13,000 in 1921-22.

TABLE C 33

IMPORTS INTO INDIA OF PICKING BANDS AND STRAPS (TOTAL VALUE)

Total Imports : Rs.1,861,000 in 1920–21, Rs.829,000 in 1921–22. From Empire Countries : Rs.1,722,000 in 1920–21, Rs.774,000 in 1921–22. (United Kingdom) : Rs.1,721,000 in 1920–21, Rs.774,000 in 1921–22.

From Foreign Countries : Rs.139,000 in 1920–21, Rs.55,000 in 1921–22. (Netherlands) : Rs.58,000 in 1920–21, Rs.34,000 in 1921–22. (United States) : Rs.63,000 in 1920–21, Rs.2,000 in 1921–22.

TABLE C 34

IMPORTS INTO INDIA OF PICKERS (TOTAL VALUE)

Total Imports : Rs.1,229,000 in 1920-21, Rs.1,220,000 in 1921-22. From Empire Countries : Rs.1,181,000 in 1920-21, Rs.1,192,000 in 1921-22. (United Kingdom) : Rs.1,181,000 in 1920-21, Rs.1,192,000 in 1921-22.

From Foreign Countries : Rs.48,000 in 1920–21, Rs.28,000 in 1921–22. (Netherlands) : Rs.46,000 in 1920–21, Rs.23,000 in 1921–22.

TABLE C 35

IMPORTS INTO INDIA OF BOOTS AND SHOES OF LEATHER

- Total Imports : 1,976,361 pairs (Rs.6,865,000) in 1913-14, 660,481 pairs (Rs.9,327,000) in 1920-21, 93,945 pairs (Rs.1,223,000) in 1921-22. From Empire Countries : 1,944,668 pairs (Rs.6,7<u>1</u>5,000) in 1913-14, 417,013
- pairs (Rs.4,972,000) in 1920–21, 73,037 pairs (Rs.857,000) in 1921–22. (United Kingdom): 1,928,012 pairs (Rs.6,676,000) in 1913–14, 405,338 pairs (Rs.4,895,000) in 1920–21, 68,222 pairs (Rs.834,000) in 1921–22.
- From Foreign Countries : 31,693 pairs (Rs.150,000) in 1913-14, 243,468 pairs (Rs.4,355,000) in 1920-21, 20,908 pairs (Rs.366,000) in 1921-22.
- (United States) : 7,924 pairs (Rs.68,000) in 1913-14, 220,665 pairs (Rs.4,010,000) in 1920-21, 12,498 pairs (Rs.267,000) in 1921-22.

TABLE C 36

IMPORTS INTO INDIA OF LEATHER BELTING FOR MACHINERY (TOTAL VALUE)

- Total Imports : Rs.2,513,000 in 1913-14, Rs.6,404,000 in 1920-21, Rs.5,292,000 in 1921–22.
- From Empire Countries : Rs.2,338,000 in 1913-14, Rs.5,352,000 in 1920-21, Rs.4,663,000 in 1921-22.
- (United Kingdom): Rs.2,335,000 in 1913-14, Rs.5,304,000 in 1920-21, Rs.4.647.000 in 1021-22.
- From Foreign Countries : Rs.175,000 in 1913-14, Rs.1,052,000 in 1920-21, Rs.629,000 in 1921-22.

(Germany): Rs.54,000 in 1913-14, Rs.1,000 in 1920-21, Rs.6,000 in 1921-2.

(Holland): Rs.1,000 in 1913-14, Rs.157,000 in 1920-21, Rs.60,000 in 1921-22.

(United States): Rs.105,000 in 1913-14, Rs.756,000 in 1920-21, Rs.529,000 in 1921–22.

TABLE C 37

IMPORTS INTO INDIA OF SADDLERY AND HARNESS (TOTAL VALUE)

- Total Imports: Rs.502,000 in 1913-14, Rs.706,000 in 1920-21, Rs.183,000 in 1021-22.
- From Empire Countries: Rs.491,000 in 1913-14, Rs.699,000 in 1920-21, Rs.181,000 in 1921-22.
- (United Kingdom): Rs.482,000 in 1913-14, Rs.671,000 in 1920-21, Rs.159,000 in 1921-22.
- From Foreign Countries : Rs.11,000 in 1913-14, Rs.7,000 in 1920-21, Rs.2,000 in 1921-22.

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TABLE C 38

Imports into India of Leather Bags and Trunks (Total Value)

- Total Imports: Rs.293,000 in 1913-14, Rs.748,000 in 1920-21, Rs.125,000 in 1921-22.
- From Empire Countries: Rs.267,000 in 1913-14, Rs.465,000 in 1920-21, Rs.80,000 in 1921-22.
- (United Kingdom): Rs.265,000 in 1913-14, Rs.423,000 in 1920-21, Rs.77,000 in 1921-22.
- From Foreign Countries: Rs.26,000 in 1913-14, Rs.283,000 in 1920-21, Rs.45,000 in 1921-22.
- (Japan): Rs.8,000 in 1913-14, Rs.236,000 in 1920-21, Rs.21,000 in 1921-22.

(United States): Rs.3,000 in 1913-14, Rs.30,000 in 1920-21, Rs.18,000 in 1921-22.

TABLE C 39

- Imports into India of Leather Manufactures not otherwise Specified (Total Value)
- Total Imports : Rs.1,101,000 in 1913-14, Rs.2,552,000 in 1920-21, Rs.1,175,000 in 1921-22.
- From Empire Countries: Rs.904,000 in 1913–14, Rs.2,080,000 in 1920–21, Rs.989,000 in 1921–22.
- (United Kingdom): Ks.889,000 in 1913-14, Rs.1,961,000 in 1920-21, Rs.933,000 in 1921-22.
- (Australia): Rs.6,000 in 1913-14, Rs.99,000 in 1920-21, Rs.47,000 in 1921-22.
- From Foreign Countries: Rs.187,000 in 1913-14, Rs.473,000 in 1920-21, Rs.186,000 in 1921-22.
- (Japan): Rs.34,000 in 1913-14, Rs.163,000 in 1920-21, Rs.15,000 in 1921-22.

(United States): Rs.27,000 in 1913-14, Rs.254,000 in 1920-21, Rs.75,000 in 1921-22.

TABLE C 40

UNITED STATES. IMPORTS OF GOATSKINS

				No	. (000)			io months ending
					1913	1921	1922	October, 1923
United K	Kingdom				2,550	808	900	1,100
Aden	Ϋ.				2,583	1,856	2,100	2,500
India	•				16,620	14,881	17,700	21,600
British A	frica				1,173	1,222	1,900	1,800
Tota	l all Cou	ntri	es.		22,926	18,767	22,600	27,000

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APPENDIX I

TARIFF ON HIDES AND SKINS EXPORTED FROM INDIA. TARIFF IN OPERATION TOWARD THE END OF 1923 RATE OF DUTY, 5 PER CENT

					Tariff Valuation per					
				Fror			om]			
Article				Unit.		Buim R A 1		0	f Inc R A	
(1) Arsenicated and Air-dried hides	:						~			-
(a) Cows (including calfskins) f	ıamed			lb.				0	9	ο
τ, τ υ , τ	inframe	d		lb.	0	5	о	o	5	ò
(b) Buffaloes (including calfskin	s), fram	ed		lb.				o	5	ō
() ()		amed		lb.	0	3	ο	0	3	ō
(2) Dry-salted hides :						5			5	-
(a) Cows (including calfskins)				Ib.	0	4	0	о	4	0
(b) Buffaloes ,, ,,				1b.	0	2	0	ō	2	ě
(3) Wet-salted hides :						_	-	Ŭ	~	v
(a) Cows (including calfskins)				1b.	o	3	0	o	3	0
(b) Buffaloes ,, ,,				lb.	ō	τ	6	õ	2	õ
(4) Goat and kidskins				piece	т	8	õ	ī	12	0
(r) Sheepelune	•	•	·	piece	ò	12	õ	-		-
(5) Directoring	•	•	•	piece	Ų	14	0	0	12	0

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APPENDIX II

LIST OF ASSOCIATIONS CONCERNED WITH HIDES AND SKINS IN INDIA

CALCUTTA HIDE & SKIN SHIPPERS' ASSOCIATION, Calcutta. SOUTHEEN INDIA HIDE & SKIN SHIPPERS' ASSOCIATION, Madras. SIMILAR ASSOCIATIONS at Bombay and Karachi. BANGALORE TECHNICAL INSTITUTE. GOVERNMENT LEATHER EXPERTS attached to the Governments at Cawnpore, Madras, and

Nagpur.

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SECTION D

CANADA

CANADA does not stand out so prominently as the other Dominions as a producer of the raw materials required for the leather industry. A substantial quantity of Canadian hides go over the border into the United States (more than counterbalanced, however, by the corresponding movement in the opposite lirection), but otherwise there is very little export of hides, skins, and tanning materials from Canada. On the other hand, Canada has an important leather ndustry—second only to that of Great Britain among Empire countries.

HIDES

The total number of cattle in Canada in 1911 was 6,650,000, while in 1921 he total was 10,200,000, an increase of more than 50 per cent in the decade. Of the last-mentioned number, 3,740,000 were cows. Up to 1921 the number of animals slaughtered in Canada were ascertained for each of the decennial ensus years. Since 1919 statistics of animals slaughtered have been collected nnually through the Dominion Department of Statistics. Table D I shows he number of living cattle on June 1st each year, and the number of cattle laughtered in the year for 1911 and 1919-22. The proportion slaughtered, ccording to the figures in Table D I, is below the corresponding proportions ound elsewhere, especially for the post-War years, and it is probable that he annual returns now obtained understate the actual slaughtering. As an idication of the hide supplies the figures are defective, inasmuch as they do ot include " casualties." In Great Britain the number of hides arising from asualties is substantial (5 per cent), and it is not likely that a lower percentage olds for Canada.

In the past four years statistics have been obtained by the Dominion Bureau f Statistics of the number of domestic cattle hides and calfskins used in anadian tanneries and shown in the Annual Report on the Leather Industry sued by the Bureau, but not printed for general circulation. For 1918, 1927, 1d 1922 the numbers used in the tanneries were :---

			1918	1921	1922	4
Cattle hides . Horse-hides .	:	:	} 1,292,000	768,000 7,000	912,000 6,000	
Calf- and kipskins	•	•	897,000	395,000	374,000	
Total .			2,189,000	1,170,000	1,292,000	

n the basis of these figures there was a surplus of about 1,150,000 domestic

hides and calfskins to be accounted for in 1921 and 600,000 in 1922. It is not possible from the Canadian returns to compare these figures with actual detailed export statistics, since the latter are published for the twelve months ending 31st March each year, and not for the calendar year. In view of the fact that practically all Canada's exports of hides and calfskins go to the United States, the official figures for the latter country may be referred to. These are shown in Tables D 41-44, and show that for 1921 the exports of green pickled hides and calfskins totalled 1,133,000 and of dry hides and skins, 237,000. In view of the fact that the latter probably included some foreign hides and skins subsequently re-exported, and that in the surplus previously referred to casualty hides and skins are not included, the agreement is farly satisfactory.

Some information enabling the conversion from numbers to weights to be made is obtained from the quarterly returns published by the Dominion Statistician of stocks of hides and skins in the hands of factors, dealers, importers, and tanners. Taking the figures for 1st October, 1922, when the proportion of foreign skins included was small, the following average weights of the various classes of hides and skins are obtained :--

a						Av	erage Weight	(Ip)
Steer-hides	•	•	•				50.2	
Cow-hides							47.3	
Bull-hides							80.3	
Horse-hides							44.7	
Calfskins .						•	9.0	
Kipskins .				÷	•	•	17.6	
Sheepskins,	woolled	•			•	•	8.6	
÷ ·	pickled	•	·	•	·	•		
"	pickieu	•	•	•	•	•	2.7	

The value of the cattle hides exported in 1921 was \$3,957,000. All but 1,300 of the cattle hides, valued at \$15,000 (which came to the United Kingdom), went to the United States. In addition hides and skins, not particularised, to the value of \$277,000 were exported, and of these \$268,000 went to the United States.

In the past year substantial numbers of Canadian cattle have been exported to the United Kingdom, and the hides from these cattle have become available for tanners in the United Kingdom as the animals have been slaughtered.

⁵ Table D 2 shows in detail particulars of cattle hides imported in the fiscal year ending March 31st, 1921, no pre-War figures being available. The total imports of these hides exceeded \$6,300,000, of which nearly one-half came from the United States, 20 per cent from Argentine, and substantial quantities from New Zealand, Uruguay, France, and United Kingdom.

The corresponding figures of imports of calfskins are shown in Table D 3. The total value was nearly \$1,900,000, more than one-half of which was from France, with large quantities also from the United States and New Zealand.

It is possible that the figures of some cattle hides and calfskins have been included in Table D 5, which shows the imports of hides and skins not otherwise particularised, though no doubt the bulk of the figures in that table relate

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CANADA

to goatskins. Table D 7 gives the numbers, weights, and values of the hides and skins, both domestic and foreign, used in tanneries in 1921 and 1922. A short summary of the figures for cattle hides and skins is as follows :---

		1921	1922
Domestic hides	No.	775,000	918,700
Foreign "	,,	401,400	448,700
All hides, value	\$	7,770,000	9,063,000
Domestic calf- and kipskins .	No.	395,000	374,000
Foreign calf- and kipskins .	,,	532,000	608,000
Total calf- and kipskins, value	\$	2,117,000	1,978,000

Canada receives about one-third of the cattle hides she tans from foreign countries, but nearly 60 per cent of the calfskins tanned are imported. It nust be remembered, however, that in certain cases the passage of hides and kins from a Canadian source of supply to a tannery in the United States is asier than to a tannery in Canada and *vice versa*, and much of the trade in hides nd calfskins between Canada and the United States is not in the nature of 'foreign" trade as the term is used in the United Kingdom.

SHEEPSKINS

In proportion to its size, Canada has only a small number of sheep. The gures of numbers and of slaughterings for each of the years 1911 and 1919-22 are 10wn in Table D 1. Canada shows a phenomenon almost unique in the increase f sheep between 1911 and 1921—see Tables A 1 and 2 of Section A—but the tral number is still small in proportion to the number in many of the countries.

No information is available of pre-War export of sheepskins, but in the scal year ending March 31st, 1921, Canada exported 43,600 cwt., valued at 498,000, entirely to the United States. The United States returns (see able D 41) indicate that for the calendar year 1921 the number of skins norted from Canada was 740,000, of value \$272,000. Particulars of the uports of sheepskins are given in Table D 4, but no differentiation is possible that table between pickled skins and woolled skins, and in view of the large fference in average weights of pickled and woolled skins, it is not possible cordingly to deduce the number of skins imported. More than one-half the skins by weight, and about two-thirds by value, came from New Zealand. ne-third by weight, but 22 per cent by value, came from the United States. preciable quantities are also imported from South Africa, Australia, and the nited Kingdom.

Table D 7 gives the numbers, weights, and values of the sheepskins, both mestic and foreign, used in tanneries in 1921 and 1922. A short summary the figures regarding sheepskins from this table is as follows :--

Domestic sheepskins, doz.			1921 35,800		1922 66,500
Foreign ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	·	÷	43,100 428,000	a 4	46,000 447,000
VOL, VI	-		1		1177

Taken over the two years, more than half the skins tanned were of Canadian origin.

GOATSKINS

The import statistics do not separately specify goatskins, and the only figures available indicating the consumption (which is also the importation, as there are very few native goats) are those in Table D 7. A summary of these is as follows :--

					1921	1922
Number of	of goatskii	ns, tanned	, doz.		27,300	61,100
Value	,,	,,	\$	•	488,000	500,000

It is impossible to produce a satisfactory statement summarising the figures (by value only) of (a) production, (b) imports, (c) exports, and (d) consumption of hides and skins in Canada. The surest foundation to start with for drawing up such a summary is the value of (a) as given in Table D 7, viz. \$11,577,000. The statistics of imports and exports are available, however, only for the fiscal vears, and as the figures were very unstable during the period under review, it is unsafe to take those for the fiscal period instead of those for the calendar year. Since practically all the exports are to the United States, however, Table D 41, which gives the value of imports of hides and skins into the United States from Canada for 1921, fixes the value of (c) at approximately \$3,600,000. For the determination of the value of the production for 1921 we have (see above) the number of cattle (2,000,000) and sheep (1,600,000) and Table D 41 shows that the average value of the imports into the United States from Canada were (in United States dollars), (a) for green cattle hides, \$3.8 per hide; (b) for green calfskins, \$1.3 per skin, and for green pickled sheepskins, \$0.4 per skin. On this basis, and making some allowance for the difference in the currency and for casualty hides and skins, the total value of the production for 1921 would appear to be about \$8,000,000. For 1913 the corresponding value would appear to be about \$10,000,000, but the basis of calculation is not a satisfactory one. Values of Canadian hides in 1921 were substantially below those in 1013.

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TANNING MATERIALS

Canada imports but little crude tanning materials (see Table D 40), the total value in the fiscal year ending March 31st, 1921, being \$22,000. She exports a certain quantity of bark to the United States, amounting in the fiscal year mentioned to \$37,000. She is, however, a large importer of tanning extracts (see Table D 38). Most of this comes from the United States, but substantial quantities come from the Straits Settlements (gambier), Argentine (quebracho), and the United Kingdom (various).

Canada exports hemlock extract, chiefly to the United Kingdom, the value in 1920–21 being \$34,000. The consumption of tanning bark in the calendar year 1921 was \$460,000, and of tanning extracts, \$1,720,000.

CANADA

LEATHER PRODUCTION

The reports which have been drawn up, but not published, in recent years by the Dominion Bureau of Statistics give a most comprehensive view of the Canadian leather industry, the best in any of the Empire countries. If the import and export statistics could be collected on the same basis as that adopted in the report it would be difficult to suggest improvement for the purpose of getting a complete survey of the industry.

The report for 1922 showed that there were in the whole of Canada 116 tanneries in 1922, compared with 119 in 1921 and 100 in 1920. (These figures include what would be known in the United Kingdom as curriers and leather dressers.) These establishments were distributed among the different provinces as follows :---

Quebec			65
Ontario			39
Nova Scotia .			3
Alberta .			3
Manitoba .			2
New Brunswick			2
British Columbia			2

The increase in comparison with 1920 was almost entirely in Quebec. The total cost of materials and value of production in 1921 and 1922 were :----

			1921 \$(000)	1922 \$(000)
Value of production			22,906	24,292
Cost of materials .	•	•	15,157	15,755
			(66 per cent)	(65 per cent)

Table D 7 shows for 1921 and 1922 many details concerning quantities and values of hides, skins, and other materials used in leather production. Reference has already been made to certain features of this table, which can be summarised as follows :---

				1921		1922	
				\$(000).	Per cent.	\$(000).	Per cent.
Hides and skins				11,576	76	12,491	79 · 🎮
Tanning materials				2,544	17	2,262	15 °
Chemicals, dyes				605	4	490	3
Fats and oils	•	•	•	432	3	512	3
					,	,	
Total	•	•	•	15,157	100 😳	15,755	100

Table D 8 shows for 1922 particulars of work done on hides and skins on commission for customers who provide the hides and skins. The total value added to the material by this work was \$580,000, from which it may be inferred that the approximate value of the hides, skins, and rough-tanned leather worked upon was about \$600,000 and the materials used about \$200,000, producing

leather to the value of about \$1,200,000. For 1921 the detailed figures are not available, but the total amount received was \$640,000, indicating a value of about \$650,000 for the hides, skins, and rough-tanned leather, and \$220,000for the materials and \$1,300,000 as the value of the leather produced. Table D 9 reproduces in complete detail a table from the report showing for 1920, 1921, and 1922 particulars of production of the various classes of leather and other materials derived from the hides and skins. This table gives the most comprehensive statement of production of any compiled for any country of the Empire, and deserves to be a model which the other Empire countries could copy. Special reference should be made to that table for particulars of the various classes of sole leather, upper leather, etc., produced. A short summary of the table by quantity (for certain items) and by value is as follows :—

			Produc	(Quantity)	ei, etc
			1920	1921	1922
Sole leather. Tons of 2,240 lb.			12,900	10,500	12,000
Upper leather. Feet (000)			40,990	35,200	43,300
Upholstery leather. Feet (000)			4,012	1,465	2,586
Belting and harness leather. Tons of a	2,240	lb.	2,600	1,900	2,300
Hair. Tons of 2,240 lb			1,200	900	1,300
Glue stock. Tons of 2,240 lb.	•	•	6,500	5,200	7,900
			Produc	vition of Leath Value \$(000)	
			1920	1921	1922
Sole leather	•	•	16,401	8,033	9,175
Upper leather	•	•	14,409	9,642	10,372
Upholstery leather		•	1,335	411	526
Belting and harness leather	•	•	4,670	2,195	2,029
Hair			102	63	88
Glue stock	•	. •	168	117	119
Value of total production, making allo		e for			
value of goods tanned on commission	ı.	•	40,000	23,500	25,000

LEATHER IMPORTS AND EXPORTS

A summary of the imports of various classes of leather, by value, is given in Table D 10 for the years 1920,1921, and 1922, taken from the Report of the Dominion Bureau of Statistics previously referred to. The detailed figures of imports published relate to the 12 months ending 31st March each year, and in the period under review there was considerable difference between one year and the next. The two sets of figures therefore are not comparable, and in view of the fact that the latest available detailed figures relate to the year ending March 31st, 1921, the summary figures have also been set out in full. Similarly Table D 11 gives a summary, by value, of the exports of leather in 1920, 1921, and 1922. By the aid of the figures for imports and

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exports and the previous figures of production, the following summary of the Canadian leather position can be drawn up :---

				1920	1921 Value \$ (000)	1922
Production				40,000	23,500	25,000
Imports .		•	•	8,500	4,100	3,800
Exports .	•	•	•	7,700	4,000	5,100
Consumption	•	•	•	40,800	23,600	23,700

The class of leather imported to the greatest extent into Canada is "dressed calf, goat, and sheep" leather. Most of this comes from the United States, and the official returns of exports of that country indicate that the bulk of it is glacé kid upper leather. The next biggest item is glove leather, but the amount of sole leather is comparatively small. The details of leather imports for the fiscal years ending March 31st, 1913 and 1921, are shown in Tables D 12-23.

Most of the leather imported comes from the United States or the United Kingdom, the former having the biggest share. In view of the importance of the United States trade with Canada, the information included in Table D 43 has been collected. This table shows the exports from the United States into Canada in 1913 and 1921 of many classes of leather and leather goods. As there is practically no time lag to take into account, the sets of figures in Table D 11 and in Table D 43 are directly comparable, regard being had to the difference in currencies. The form of classification used in the figures of the United States is more useful than that for Canada, and indicates, for example, a much larger import of glacé kid into Canada in 1921 than in 1913.

A few comments on the detailed Tables D 12-24 may be made here. Table D 12 shows that practically all the sole leather imported in 1920-21 came from the United States, and a comparison with the production figures previously referred to shows that the importation is about 3 per cent of the production. In 1912-13 the imports of sole leather from the United Kingdom were greater than those from the United States. Table D 13 indicates that about 90 per cent of the leather for the manufacture of belting comes from the United Kingdom; the bulk of the leather for harness, however, comes from the United States (Table D 14). The predominance of the United States is especially marked in dressed leathers and in tanned skins. In patent leather she supplied nearly 90 per cent of Canada's imports (Table D 15); in morocco leather 80 per cent (Table D 16); in rough-tanned calf-, sheep-, and goatskins more than 90 per cent (Table D 17); in dressed calf-, sheep-, and goatskins 90 per cent (Table D 18); in upper leather 60 per cent (Tables D 19 and 20); and in glove leather over 90 per cent (Table D 21). Altogether 80 per cent of Canada's leather for the states.

The details of leather exports from Canada for the fiscal years ending March 31st, 1913 and 1921, are shown in Tables D 24-27. Nearly 70 per cent in 1921 of Canada's exports went to the United States, and Table D 42 shows the United States official figures of imports of leather and leather goods from Canada. The chief exports are sole leather and upper leather. In 1913 most of the former (85 per cent) came to this country, but in 1921 less than 20 per cent came here, 60 per cent going to the United States (Table D 24). The upper leather, the exports of which increased considerably between 1913 and 1921, came chiefly to the United Kingdom (Table D 25). Over 90 per cent of the harness leather exported went to the United States (Table D 26). Of the leathers not specified, nearly 90 per cent came to the United Kingdom in 1913, but only 15 per cent in 1921. In the latter year 80 per cent went to the United States (Table D 27).

LEATHER BOOT AND SHOE INDUSTRY

Boot and shoe manufacturing is probably the oldest industry established in Canada. In the Report by the Dominion Bureau of Statistics on the Leather Boot and Shoe Industry in Canada in 1921 an interesting historical review of the industry is given, leading up to a description of the industry in 1921. In that year there were 177 factories (of which 98 were in Quebec and 66 in Ontario) producing between them 15,047,000 pairs of boots, ctc. Of these 127 produced less than 100,000 pairs each; 32 more, between 100,000 and 200,000 pairs each; 8 more, between 200,000 and 300,000 pairs; while 3 exceeded 400,000 pairs each.

The value of the production in 1920 was returned as \$66,817,000, while the cost of the materials used was \$40,292,000.

Details of the production of boots, shocs, etc., are given in Table D 28, from which it will be seen that the production covered the whole range of footwear, and had a factory value of \$66,817,000 (for 17,694,000 pairs) in 1920 compared with \$44,665,000 (for 14,746,000 pairs) in 1921. Some particulars of the materials used in the industry in 1921 are as follows :--

								Value \$
	terials							12,357,000
Bottom	"							6,860,000
All other	,,	•		•	•	•		4,162,000
To	tal value	of mat	erials				•	23,379,000
Leather fo	or uppers	and li	nings ((feet)				29,349,000
Leather to	r uppers	(lb.)	·	•	•	•	•	1,234,000
		•	•	•	•	•	•	11,097,000
Cut soles	(pairs)	•	•	•	•	•	•	4,003,000
	Bottom All other Tor Leather for Sole leather	All other "," Total value Leather for uppers	Bottom ", All other ", Total value of mate Leather for uppers and lin Leather for uppers (lb.) Sole leather (lb.)	Bottom ", All other ", Total value of materials Leather for uppers and linings (Leather for uppers (lb.) Sole leather (lb.)	Bottom ,,	Bottom ",	Bottom "," . . All other "," . . Total value of materials . . . Leather for uppers and linings (feet) . . . Sole leather (lb.) 	Bortom ,, . . . All other ,, . . . Total value of materials . . . Leather for uppers and linings (feet) . . . Leather for uppers (lb.) Sole leather (lb.)

Canada produces a large number of rubber boots and shoes, the total in 1921 being 11,057,000 pairs, valued at \$14,315,000. The number of pairs is 75 per cent of the corresponding number of leather boots, but the value is only one-third of that of the latter. Details of the imports and exports of boots and shoes are given in Tables D 29 and 31. Nearly 90 per cent of the imports are from the United States. The exports increased enormously between 1912-13 and 1921-22, and more than 60 per cent of the exports in the latter year came

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CANADA

to the United Kingdom. In the following year, however, the figures fell away considerably (Table D 31). Comparison (by value) of the imports and exports with the production leads to the following :---

						Leather Boots and Shoes. Value \$(000)		
						1920	1921	
Production						66,817	44,665	
Imports				•	•	2,638	1,327	
Exports		•		•	•	3,352	335	
Consumption	·	•	·	•	•	66,103	45,657	
						Rubber Boots and Shoes. Value \$(000)		
						1920	1921	
Production			•			24,332	14,315	
Imports	•				•	328	_ 95	
Exports		•			•	1,633	802	
Consumption	•	•	•	•	•	23,027	13,608	

The consumption of rubber boots is, in value, about one-third of that of leather boots and shoes.

HARNESS AND SADDLERY

No later report than that of 1919 is available concerning the harness and saddlery industry. In that year there were 593 establishments employing 2,089 workpeople, with a total wage roll during the year of \$1,775,000. These figures all showed a substantial advance on those of the previous year. The cost of the materials used in the year was \$4,813,000, and the value of the products was \$8,611,000.

The imports and exports of harness and saddlery are set out in Tables D 32 and 33. In 1912–13 the imports very largely exceeded the exports, but in 1920–21 the two movements practically balanced, and most of the business was with the United States. The actual figures of the imports in that year were \$124,086 and of the exports \$144,786. It would follow that the consumption of harness and saddlery was approximately equal to the production which, as stated above, was \$8,611,000 in 1919.

TRUNKS, BAGS, ETC.

Particulars are available regarding the manufacture of trunks, bags, and valises through the census taken by the Dominion Bureau of Statistics relating to 1920, with corresponding figures for 1919. The number of factories increased from eight in 1919 to thirteen in 1920, the capital invested from $\$_{1,56,000}$ to $\$_{2,460,000}$, the number employed from $\$_{45,100}$ the salaries and wages from $\$_{485,000}$ to $\$_{889,000}$, the cost of materials used from $\$_{1,067,000}$ to $\$_{1,914,000}$ to $\$_{3,260,000}$.

The values of the main products in 1920 were :---

			ş
Trunks			1,318,000 1,016,000
Valises and suit-cases .			1,016,000
Club-bags and hand-bags			702,000
Other products		•	224,000
773 4 1			
Total	•	•	3,260,000

The exports and imports of these goods are not separately specified.

LEATHER GLOVES

A census of the glove industry was also taken in 1920 by the Bureau of Statistics. Out of fifty-four establishments making gloves, fifty used leather as the principal material. These had a capital of 4,000,000 and employed 1,982 people, who received in salaries and wages 1,627,000, and produced products valued at 5,774,000 from materials valued at 33,088,000. Out of this last figure, 2,434,000 (80 per cent) was leather, comprising the following :--

				\$
Sheepskins .				1,139,000
Horse-hides .				402,000
Deerskin				220,000
Kid- and lambskins				224,000
All other skins .				449,000
Total leather	•	•	•	2,434,000

The statistics of articles produced separated dress gloves from working gloves. The former accounted for 121,000 dozen pairs, of value \$2,520,000, and the latter for 103,000 dozen pairs, of value \$2,805,000, these two items together accounting for \$5,325,000 out of the total production of \$5,774,000.

Details of the exports of leather gloves in 1920-21 are shown in Table D 34. They totalled \$73,000, spread over a number of countries. Table D 43 shows that the exports of gloves from the United States to Canada was less than 10,000 pairs, of value \$9,300. For the calendar year 1920, the Report of the Production Census gave the total imports at \$860,000 and the exports at \$92,000.

OTHER LEATHER GOODS

In addition to the reports of Censuses of Production already referred to, a report was also issued covering the production for 1920 of factories not classified into any of the previous headings, but whose production includes to some extent some of those already mentioned. To complete the view of the Canadian leather industry, the figures relating to these factories can be given. The number of these factories increased from twenty-eight in 1910 to thirty-one in 1920, but the capital employed diminished from $\$_{1,4}\$_{7,000}$ to \$866,000. The number of people employed fell from 764 to 557, the wages and salaries from

\$636,000 to \$518,000, the cost of materials from \$1,066,000 to \$830,000, and the value of the products from \$1,241,000 to \$900,000. Of the \$830,000 of materials used, \$478,000 was leather, and \$30,000 imitation leather.

The only other leather article specified in the import and export returns is leather belting. There is an appreciable amount of this imported (see Table D 34) mainly from the United States, but a very small export (Table D 35). Particulars of the imports of leather manufactures not specified are shown in Table D 36; 70 per cent of these came from the United States, and over 20 per cent in 1920-21 from the United Kingdom. The corresponding exports (Table D 37) went almost entirely to the United States. The total value of the exports in 1920-21 amounted to \$1,943,000,

This part of the subject may be amplified by reproducing from the *Canadian Year Book* for 1921 the following figures relating to the production of leather and its finished products.

						No of Establish- ments	Capital \$(noo)	Employees on Wages and Salaries	Wages and Salaries \$(000)	Cost of Materials \$(000)	Value of Products. \$(000)
Belting a	and hos	e leath	ıer			7	1,394	223	185	1,028	1,718
Boots an						146	30,881	15,718	8,380	18,980	34,065
Boot and	l shoc r	epans				127	153	204	103	84	328
"		upplie	s			8	184	116	50	108	186
Harness	and sad	idlery				102	5,747	1,771	1,392	5,595	8,739
Leather t	tanned,	currie	d and	l finish	ed	106	19,688	3,597	2,183	18,124	23,655
,,	goods					25	2,004	868	496	1,188	2,179
Whips	•	•	•	•		3	218	89	58	95	167
Tota	al.					524	60,269	22,586	12,847	45,202	71,037

Excluding the items for boot and shoe repairs and boot and shoe supplies, and adding to the above the corresponding figures for leather gloves, the total cost of materials and value of products is as follows :---

				Cost of Materials \$(000)	Value of Products. \$(000)	
Leather production				18,100	23,700	
Boots and shoes		•	•	19,000	34,100 18,500	
Other leather goods	·	•	•	11,000	18,500	3
Total .				48,100	76,300	

The approximate figures for consumption of leather, goods are accordingly as follows :---

Production .					\$(000) 52,600
Imports .					3,400
Exports .				•	1,900
Consumption	•	•	• `	٠	54,100

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TABLE D T

STATISTICS OF CATTLE AND SHEEP STOCKS AND SLAUGHTERINGS, 1911-22

				CATTLE							
Year			No. of Cattle.	Cattle	No slaughtered Calves	Total					
19111			6,650,000			1,753,000					
1919	•		10,090,000	1,438,000	454,000	1,891,000					
1920	•		9,480,000	1,329,000	447,000	1,775,000					
19212	•	•	10,210,000	1,513,000	504,000	2,017,000					
1922	٠	•	9,720,000	1,393,000	507,000	1,899,000					
	SHEEP										
Year:			Number	Sheep	No slaughtered Lambs	Total.					
1911			2,228,000			949,000					
1919	•	•	3,422,000	1,020,000	340,000	1,360,000					
1920	•	•	3,721,000	1,120,000	373,000	1,493,000					
1921	·	•	3,676,000	1,177,000	392,000	1,569,000					
1922	•	•	3,264,000	1,039,000	346,000	1,385,000					
			¹ 2,595,000 0	f the cattle were	cows.						

² 3.737,000 of the cattle were cows

TABLE D 2

IMPORTS INTO CANADA OF CATTLE HIDES, RAW, WHETHER DRY-SALTED OR PICKLED

Total Imports : 19,054,909 lb. (\$6,340,013) in 1921.

From Empire Countries : 3,043,633 lb. (value not available) in 1921.

(United Kingdom): 474,750 lb. (\$213,247) in 1921. (British India): 146,681 lb. (\$97,973) in 1921.

(New Zealand): 2,290,001 lb. (\$723,136) in 1921.

From Foreign Countries : 16,011,276 lb. (\$5,280,633) in 1921.

(Argentine): 3,925,452 lb. (\$1,291,834) in 1921. (France): 851,662 lb. (\$349,350) in 1921.

(Dutch East Indies): 136,922 lb. (\$102,856) in 1921.

(United States): 9,364,224 lb. (\$3,057,835) in 1921.

(Uruguay): 1,621,604 lb. (\$430,441) in 1921.

Note: Corresponding figures for 1913 or any pre-War year are not available.

TABLE D 2

IMPORTS INTO CANADA OF CALFSKINS AND KIPS, RAW, WHETHER DRY-SALTED OR PICKLED

Total Imports : 3,139,130 lb. (\$1,867,387) in 1921. From Empire Countries : 522,706 lb. (\$314,951) in 1921. (Australia): 78,502 lb. (\$44,267) in 1921. (New Zealand) : 433,036 lb. (\$267,670) in 1921.

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From Foreign Countries : 2,616,424 lb. (\$1,552,436) in 1921. (France): 1,167,862 lb. (\$986,074) in 1921. (United States): 1,397,652 lb. (\$540,924) in 1921. Note : Corresponding figures for 1913 or any pre-War year are not available.

TABLE D 4

Imports into Canada of Sheepskins, Raw, whether Dry-Salted OR PICKLED

Total Imports : 2,070,758 lb. (\$972,490) in 1921. From Empire Countries : 1,396,525 lb. (\$758,653) in 1921. (United Kingdom): 87,323 lb. (\$28,649) in 1921. (British South Africa): 131,633 lb. (\$51,412) in 1921. (Australia): 93,034 lb. (\$42,755) in 1921. (New Zealand): 1,082,183 lb. (\$633,869) in 1921. From Foreign Countries : 674,233 lb. (\$213,837) in 1921.

(United States): 672,119 lb. (\$213,134) in 1921.

Note : Corresponding figures for 1913 or any pre-War year are not available.

TABLE D 5

IMPORTS INTO CANADA OF OTHER HIDES AND SKINS, RAW, NOT OTHERWISE PARTICULARISED, WHETHER DRY-SALTED OR PICKLED

Total Imports : 2,226,638 lb. (\$1,431,088) in 1921. From Empire Countries : 796,173 lb. (\$816,938) in 1921. (United Kingdom): 447,916 lb. (\$249,242) in 1921. (British India): 216,731 lb. (\$419,599) in 1921. (Jamaica): 67,898 lb. (\$46,105) in 1921. (Australia): 25,253 lb. (\$45,325) in 1921. (New Zealand): 28,043 lb. (\$50,759) in 1921.

From Foreign Countries : 1,430,465 lb. (\$614,150) in 1921.

(France): 41,918 lb. (\$20,409) in 1921.

(United States): 1,371,551 lb. (\$582,695) in 1921.

Note : Corresponding figures for 1913 or any pre-War year are not available.

TABLE D 6

TOTAL IMPORTS INTO CANADA OF HIDES AND SKINS, RAW, WHETHER DRY-SALTED OR PICKLED

Total Imports : \$13,305,471 in 1913, \$10,652,787 in 1921. From Empire Countries : \$3,071,790 in 1913, \$2,949,929 in 1921. (United Kingdom): \$1,227,044 in 1913, \$492,734 in 1921. (Australia): \$79,589 in 1913, \$132,356 in 1921. (British South Africa): \$93,529 in 1913, \$51,412 in 1921.

(British India): \$336,197 in 1913, \$517,572 in 1921. (,, West Indies): \$73,340 in 1913, \$16,316 in 1921. (New Zealand): \$1,244,136 in 1913, \$1,675,434 in 1921. (Jamaica: none in 1913, \$55,589 in 1921.

From Foreign Countries : \$10,233,681 in 1913, \$7,703,858 in 1921. (Argentine) : \$3,986,450 in 1913, \$1,316,850 in 1921. (France) : \$1,922,120 in 1913, \$1,355,891 in 1921. (Germany) : \$148,415 in 1913. (Holland) : \$47,369 in 1913. (Mexico) : \$64,499 in 1913, \$22,089 in 1921. (Russia) : \$544,218 in 1913. (United States) : \$3,161,663 in 1913, \$4,436,390 in 1921. (Uruguay) : \$153,811 in 1913, \$430,441 in 1921. (Dutch East Indies) : \$102,857 in 1921.

TABLE D 7

Hides, Skins and Other Materials Used in Establishments Engaged in the Canadian Leather Industry, 1921 and 1922

				Unit	1921	1922
Cattle Hides—						
Foreign				No.	401,424	448,710
Domestic				,,	768,260	912,301
Total .	•	•		,,	1,169,684	1,361,011
, weight				lb.	51,068,229	59,368,727
,, cost				\$	7,748,308	9,040,111
Horse Hides-					1111.5	2010
Domestic				No.	6	6
	·		•		6,777	6,441
Weight .	·	•	٠	lb.	337,490	317,980
Cost .	٠		•	\$	22,042	21,922
Calf- and Kipskins—						
Foreign				No.	531,502	608,254
Domestic			•		395,063	
	•	•	•	,,	395,003	373,754
Total .				,,	926,565	982,008
" weight				1b.	9,000,000	9,052,880
" cost	•	•	·	\$		1,978,213
//	·	·	•	φ	2,117,177	1,970,413
Sheepskins						
Foreign	•	•	•	doz.	43,120	45,945
Domestic				,,	35,813	66,482
m . 1						<i>'</i> 1
Total .	•	•	•	,,	rt 78,933 rt	112,427
", weight	•	•	•	lb.	2,408,525	2,933,608
" cost				\$	427,962	447,379
				-		77/0/2

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TABLE D 7-continued

0				Unit	1921	1922					
Goatskins— Foreign Weight . Cost .	•	•		doz. lb. \$	27,307 430,283 488,129	61,102 1,299,072 500,142					
Lea	Leather purchased partly Tanned										
Cattle Hides—		1		1 2							
Foreign, sides . Domestic ,, .	:	•	•	No. ,,	2,900 43,615	7,836 40,209					
Total sides ,, weight	•		•	.,, lb.	46,515 2,133,865	48,045 1,372,128					
,, weight		:	:	\$	280,049	197,176					
Horse Hides-	-			" No.							
Domestic, sides Weight .	•	•	•	lb.	and a second	120 2,700					
Cost .	:	•	:	\$		242					
Calf- and Kipskins-											
Foreign		•	•	No.	116,288	66,173					
Domestic	·	·	·	,,	8,972	20,028					
Total .				,,	125,260	86,201					
", weight				lb.	876,820	625,280					
", cost	·	•	•	\$	263,555	218,398					
Goatskins—				1							
Foreign Weight .	•	•	•	doz. lb.	59 1,300						
Cost .	•	•	·	\$	603						
Sheepskins-	•	•		π	5						
Foreign				doz.	20,247	3,012					
Domestic			•	,,	10,232	3,950					
Total .				<i>"</i> `	30,479	6,962					
,, weight	÷	·	÷	1b.	743,875	149,754					
" cost				\$	177,001	21,240					
Splits-											
Foreign Domestic	·	•	·	No.	68,534	356 141,780					
	·	·	•	"							
Total	•	•		,"	68,534	142,136					
" weight	•	·	٠	lb.	689,949	1,089,896					
" cost	·	•	•	\$	47,363	59,742					

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			/			
				Unit	1921	1922
3						
				No.		4,000
				lb.		16,000
	•			\$	5,000	6,636
				\$	463,019	362,278
3				,,	1,718,204	1,504,277
				,,	432,109	511,626
etc.				,,	604,552	490,115
ateria	ils			,,	362,285	395,454
of hi	des, s	skins, a	and			
			•	,,	15,157,358	15,754,951
	etc. ateria	etc aterials	etc.	etc	s No. . . <	s No. . . Ib. . . \$ 5,000 . . . \$. . . \$. . . \$. . . \$ <td< td=""></td<>

TABLE D 7-continued

TABLE D 8

CUSTOM TANNING HIDES AND SKINS TREATED FOR CUSTOMERS, 1922

Leather Tanned, but not Finished

Cattle hides Weight Horse-hides Weight Calf- or kips Weight Sheepskins	kins				• • •	• • •		• • • •	No. lb. No. lb. No. lb.	39,717 2,050,788 314 15,510 5,171 33,918 860	
Weight	:		•	÷	:	•	÷	•	doz. lb.	30,500	
1	, Leather Tanned and Finished										
Cattle hides		•	•	· •			•		No.	34,182	
Weight	•	٠	•	·	•	•	•	•	lb.	1,262,135	
Horse-hides	•	·	•	•	•	•	•	•	No.	1,169	
Weight	. :	·		•		•	•	•	lb.	54,980	
Calf- or kips	kins	•	•	•	•		•		No.	10,276	
Weight	•		•	•	•	•	•		lb.	96,759	
Sheepskins	•	•		•	•	•			doz.	41,185	
Weight	٠	·	•					•	ΙЬ.	1,103,511	
7	otal :	amou	nt rec	eived	for C	ustom	ı tann	ing			
	du	iring	the ye	ear	•	•	•	•	\$	579 ,79 0	

Production of Establishments Engaged in the Leather Industry, Canada, 1920, 1921 and 1922

						1920	1921	1922
Sole Leather—								
Hemlock sides (No.)						555,369	548,621	261,945
weight (lb.)		•				11,320,240	10,197,800	5,368,478
value (\$)						5,697,836	3,455,036	1,738,211
Union sides (No.)						170,453	67,697	225,168
weight (lb.)						3,815,324	1,412,752	4,742,155
value (\$) .			•			2,529,456	324,458	1,553,202
Oak sides (No)	•			•		665,853	478,800	662,873
weight (lb.)		•	•	•		13,249,604	9,594,372	13,610,499
value (\$) .		•	•			7,955,431	3,729,970	4,853,270
Chrome sides (No.)			•			27,673	121,457	148,575
weight (lb.)	•		•	•	•	545,060	2,297,446	3,234,231
value (\$)	•	•		•	•	218,564	524,247	937,022
Sole leather splits (1	₹o.)					3,115		
value (\$) .	•	•	•	•		6,550		93,715
Upper Leather—								
Cattle or horse-hide	aidea	(NIo)	`			x 222 228	468,461	600.087
area (sq. ft.)	s siucs	(110.,	/	•	•	1,232,338		603,081
value (\$)	·	•	·		•	23,291,639 6,821,995	8,363,624	10,534,658
Calfskins (No.)	·	•	•	•	•	621,642	2,225,588	2,645,918
area (sq. ft.)	·	•	·	•	•		1,276,083	984,157
value (\$)	·	•	·	•	•	5,623,448	12,042,069	9,003,018
Patent calfskins (No	;	•	·	•	•	3,700,014	4,256,364 4,686	3,255,519
area (sq. ft.)	.)	·	•	•	·	9,636		
value $(\$)$.	•	·	·	·	·	93,026	57,070	100,000
Patent and enamelle	1 100#1		· .		•	64,408	15,555	
area (sq. ft.)			•		•	79,392	84,295	244,556 3,666,596
value $(\$)$.	·	•	·	•	•	1,270,817	1,399,109	3,000,590
Patent and enamelle	dahaa	Iooth		· (N	<u>د م</u>	710,371	460,477	1,096,818
area (sq. ft.)	u shoe	leatin	er siu	es (11	o.j	1	217,293	310,449
value (\$)	•	•	•	•	•		3,033,358	4,155,890
Sheepskins (doz.)	·	•	•	·	·	47,882	962,164 72,362	1,236,970 92,462
area (sq. ft.)	•	•	•	·	•	3,700,000	5,780,561	92,402 7,058,685
value (\$9. 10.)	·	·	•	·	·	3,700,000	695,231	713,264
Goatskins (doz.)	•	•	•	•	·	995,386 40,468	23,312	70,986
area (sq. ft.)	·	•	·	•	•	40,400		70,980
value $(\$)$.	•	•	·	•	•	2,572,750 1,358,243	1,474,715 625 621	3,571,981 868,104
Wax splits (No.)	•	•	•	·	·		635,621 55,426	88,885
value (\$)	•	•	•	·	·	151,337 317,382	89,378	96,922
value (ϕ) .	·	•	·	•	٠	317,302	09,370	90,922

† Included in 1920 with skins.

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TABLE D 9-continued

						1920	1921	1922
Chrome splits (No.)					675,371	442,559	685,222
area (sq. ft.)	/					3,686,584	2,745,720	4,855,128
value (\$) .						440,789	301,703	459,977
Other splits							5 11 5	1551511
value (\$) .								124,321
Oil-tanned shoepacl	k leath	er sid	les (No	, ,		35,202	20,564	12,812
weight (lb.)				.,				251,770
value (\$)	•	•	•		•	583,319	200,575	97,684
Harness leather side	es (No)				275,401	188,092	240,235
weight (lb)	00 (210)	/	•		·	5,368,668	3,739,853	4,892,174
value (\$)	·	•		·	·	4,034,025	1,737,102	1,845,131
Belting leather side	(No.)				·	38,261	19,881	12,587
weight (lb.)	5 (110.)		·		·		507,847	248,240
value (\$) .	·	•			•	489,454		
Carriage, automob	10. ond	- fur-		· lon+l	•	635,794	456,751	183,787
hides (No.)	ne and	i iui	muie	icau	ıçı	85,629	ar 0°-	
	·	•	·	·			31,985	51,973
area (sq. ft.)			·			4,011,944	1,465,035	2,586,010
value (\$)	1	1.	· · , ,	.1	·	1,335,336	410,668	526,434
Glove, trunk, bag a	ana po	cket-	DOOK 1	eatne	r	(0 - 00	1	
value (\$)					•	1,168,588	657,593	709,615
Bookbinders' leathe	er (skin	sor	side le	ather)			
area (sq. ft)	•	•		·	•	189,728	144,822	
value (\$)	•			·	٠	118,091	37,983	23,451
Lace leather								
weight (lb.)	•	•		•	•			134,915
value (\$)	•		•	•		\$	226,481	152,793
Sheepskins, pickled	only (doz.)				‡	6,867	1,100
value (\$) .		•					30,512	8,398
Wool weight (lb.)						193,335	225,396	15,390
value (\$)						81,701	60,214	3,484
Hair weight (lb)						2,654,872	1,971,328	2,817,472
value (\$) .						101,801	62,642	87,981
Glue stock								,
weight (lb.)						14,556,945	11,600,047	17,655,891
value (\$) .						168,164	117,916	119,369
All other products							11)	
value (\$) .						930,497	589,765	280,734
nount received for cu	istom t	anni	ng (\$)			1 t	641,534	579,790
tal value of product	on (\$)		3(*)		÷	39,967,831	22,905,528	24,291,884
				·		3317-11-31		~+,~9~,004

‡ Included for 1920 with " all other products."

Imports for Consumption of Products of the Canadian Leather Industry During Calendar Years 1920, 1921 and 1922

Article.	1920 \$	1921 \$	1922 \$
Leather belting of all kinds	560,387	161,676	201,862
Calf, kid or goat, lamb and sheepskins, tanned . Calf, kid or goat, lamb and sheepskins, diessed,	354,993	150,268	130,139
waxed or glazed Glove leathers, tanned or dressed, coloured or un- coloured, imported by glove manufacturers for use exclusively in their own factories in the	2,688,089	1,700,500	1,138,135
manufacture of gloves	2,512,243	736,012	879,622
Harness leather	73,800	22,383	29,085
Japanned, patent or enamelled leather, morocco leather, and leather in imitation of morocco	/3,000	42,303	29,003
leather	39,758	12,650	33,605
Skins for morocco leather, tanned but not further	0,,,0		00. 0
manufactured	20,780	1,267	358
Sole leather	246,907	281,201	131,185
Tanners' scrap leather	22,060	19,204	18,253
Upper leather, not dressed, waxed or glazed .	62,702	57,840	61,786
Upper leather, including dongola cardovan, kan- garoo, alligator, and all leather dressed, waxed or glazed, or further finished than tanned n.o.p. and			
chamois skins	1,207,342	581,520	682,305
Other leather, dressed, waxed or glazed, etc., n.o.p.	294,067	210,295	276,322
All other leather and skins n.o.p	384,409	124,406	182,272
Total leather, unmanufactured	8,467,537	4,059,222	3,764,929

TABLE D 11

Exports of Products of the Canadian Leather Industry During Calendar Years 1920, 1921 and 1922

		Article	.						1920 \$	1921 \$	1922 \$
Harness	leather								429,631	404,338	534,097
Sole	,,	·	·	•	•	•	•	٠	1,422,542	1,105,625	1,758,072
Upper	"	•	:.		•	•	٠	•	5,339,168	2,137,038	2,603,476
Other un	manut	actur	ed lea	ther,	n.o.p,	·	•	•	500,987	378,419	195,739
Tota	l leath	er, u	nman	ufactu	red	•	•		7,692,328	4,025,420	5,091,384

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LEATHER, HIDES, AND SKINS

TABLE D 12

IMPORTS INTO CANADA OF SOLE LEATHER

Total Imports : 749,681 lb. (\$157,949) in 1913, \$234,872 in 1921. From Empire Countries : 412,076 lb. (\$83,607) in 1913, \$20,001 in 1921. (United Kingdom): 412,076 lb. (\$83,607) in 1913, \$20,001 in 1921. From Foreign Countries : 337,605 lb. (\$74,342) in 1913, \$214,871 in 1921. (United States): 294,391 lb. (\$63,698) in 1913, \$214,871 in 1921.

TABLE D 13

IMPORTS INTO CANADA OF BELTING LEATHER OF ALL KINDS

Total Imports : 585,292 lb. (\$262,737) in 1913, \$469,331 in 1921. From Empire Countries ; 569,326 lb. (\$252,286) in 1913, \$395,595 in 1921. (United Kingdom): 569,326 lb. (\$252,286) in 1913, \$395,595 in 1921. From Foreign Countries : 15,966 lb. (\$10,451) in 1913, \$73,736 in 1921. (United States): 15,966 lb. (\$10,451) in 1913, \$73,736 in 1921.

TABLE D 14

IMPORTS INTO CANADA OF HARNESS LEATHER

Total Imports : 51,948 lb. (\$25,245) in 1913, \$69,023 in 1921. From Empire Countries : 30,152 lb. (\$15,413) in 1913, \$16,638 in 1921. (Umted Kingdom): 30,152 lb. (\$15,413) in 1913, \$16,469 in 1921. From Foreign Countries : 21,796 lb. (\$9,832) in 1913, \$52,385 in 1921. (United States): 21,796 lb. (\$9,832) in 1913, \$52,385 in 1921.

TABLE D 15

IMPORTS INTO CANADA OF JAPANNED, PATENT OR ENAMELLED LEATHER, MOROCCO LEATHER AND LEATHER IN IMITATION MOROCCO LEATHER Total Imports : 65,713 lb. (\$47,889) in 1913, \$34,832 in 1921. From Empire Countries : 2,579 lb. (\$4,753) in 1913, \$5,549 in 1921. (United Kingdom) : 2,579 lb. (\$4,753) in 1913, 5,549 lb. in 1921.

From Foreign Countries : 63,134 lb. (\$43,136) in 1913, \$29,283 in 1921. (United States): 63,134 lb. (\$43,136) in 1913, \$28,993 in 1921.

TABLE D 16

IMPORTS INTO CANADA OF SKINS FOR MOROCCO LEATHER, TANNED BUT NOT FURTHER MANUFACTURED

Total Imports : 64,835 lb. (\$28,197) in 1913, \$12,589 in 1921. From Empire Countries : 38,028 lb. (\$15,787) in 1913, \$2,655 in 1921. (United Kingdom): 38,028 lb. (\$15,787) In 1913, \$2,655 in 1921. From Foreign Countries : 26,807 lb. (\$12,410) in 1913, \$9,934 in 1921. "Truised States): 26,807 lb. (\$12,410) in 1913, \$9,934 in 1921.

Imports into Canada of Calf-, Kid- or Goat-, Lamb-, and Sheepskins Tanned

Total Imports : 144,089 lb. (\$72,429) in 1913, \$274,965 in 1921. From Empire Countries : 43,476 lb. (\$16,740) in 1913, \$11,946 in 1921. (*United Kingdom*) : 43,476 lb. (\$16,740) in 1913, \$11,635 in 1921.

From Foreign Countries : 100,613 lb. (\$55,689) in 1913, \$263,019 in 1921. [United States]: 100,204 lb. (\$55,355) in 1913, \$262,119 in 1921.

TABLE D 18

Imports into Canada of Calf-, Kid- or Goat-, Lamb-, and Sheepskins Dressed, Waxed, or Glazed

Fotal Imports : 1,032,876 lb. (\$555,210) in 1913, \$1,799,308 in 1921. From Empire Countries : 508,835 lb. (\$182,486) in 1913, \$152,915 in 1921. United Kingdom) : 508,835 lb. (\$182,486) in 1913, \$152,188 in 1921.

From Foreign Countries : 524,041 lb. (\$372,724) in 1913, \$1,646,393 in 1921. United States) : 518,757 lb. (\$368,654) in 1913, \$1,643,495 in 1921.

TABLE D 19

MPORTS INTO CANADA OF UPPER LEATHER, INCLUDING DONGOLA CORDOVAN, KANGAROO, ALLIGATOR, AND ALL LEATHER DRESSED, WAXED, OR GLAZED, OR FURTHER FINISHED THAN TANNED, AND CHAMOIS SKINS

 Cotal Imports : 426,135 lb. (\$364,147) in 1913, \$868,289 in 1921.

 From Empire Countries : 103,087 lb. (\$91,779) in 1913, \$356,494 in 1921.

 United Kingdom) : 102,687 lb. (\$91,422) in 1913, \$356,494 in 1921.

 From Foreign Countries : 322,948 (\$272,368) in 1913, \$511,804 in 1921.

 United States) : 321,974 lb. (\$271,582) in 1913, \$508,271 in 1921.

TABLE D 20

Imports into Canada of Upper Leather, not Dressed, Waxed, or Glazed

otal Imports : 49,502 lb. (\$22,221) in 1913, \$51,048 in 1921. rom Empire Countries : 20,424 lb. (\$7,485) in 1913. United Kingdom) : 20,424 lb. (\$7,485) in 1913. rom Foreign Countries : 29,078 lb. (\$14,736) in 1913, \$51,048 in 1921.

United States): 29,078 lb. (\$14,736) in 1913, \$51,048 in 1921.

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Imports into Canada of Glove Leathers, Tanned or Dressed, Coloured or Uncoloured

Total Imports : \$829,687 in 1913, \$2,068,913 in 1921. From Empire Countries : \$16,628 in 1913, \$94,845 in 1921. (United Kingdom): \$16,628 in 1913, \$94,845 in 1921.

From Foreign Countries : \$813,059 in 1913, \$1,974,068 in 1921.

(Italy): \$116,774 in 1921.

(United States): \$796,342 in 1913, \$1,855,409 in 1921.

(Germany): \$16,598 in 1913.

TABLE D 22

IMPORTS INTO CANADA OF ALL OTHER LEATHER, DRESSED, WAXED, OR GLAZED

Total Imports: 2,347,487 lb (\$1,537,024) in 1913, \$210,667 in 1921. From Empire Countries: 821,192 lb. (\$368,098) in 1913, \$57,194 in 1921. (United Kingdom): 821,192 lb. (\$368,098) in 1913, \$56,818 in 1921.

From Foreign Countries : 1,526,295 lb. (\$1,168,926) in 1913, \$153,473 in 1921. (United States) : 1,473,383 lb. (\$1,137,291) m 1913, \$152,815 in 1921.

TABLE D 23

Imports into Canada of other Leather and Skins

Total Imports : 624,467 lb. (\$270,806) in 1913, \$243,468 in 1921. From Empire Countries : 175,302 lb. (\$70,839) in 1913, \$59,047 in 1921. (United Kingdom) : 166,502 lb. (\$70,795) in 1913, \$54,436 in 1921.

From Foreign Countries : 449,165 lb. (\$199,967) in 1913, \$184,421 in 1921. (United States) : 437,922 lb. (\$192,945) in 1913, \$183,679 in 1921.

TABLE D 24

EXPORTS FROM CANADA OF SOLE LEATHER

Total Exports : 3,589,599 lb. (\$974,497) in 1913, 1,391,510 lb. (\$870,183) in 1921.

To Empire Countries : 3,291,745 lb. (\$886,779) in 1913, 304,322 lb. (\$241,207) in 1921.

(United Kingdom): 3,067,085 lb. (\$823,050) in 1913, 237,369 lb. (\$184,151) in 1921.

(Newfoundland): 147,229 lb. (\$36,067) in 1913.

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(New Zealand): 76,836 lb. (\$27,528) in 1913, 52,487 lb. (\$48,021) in 1921.

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CANADA

'o Foreign Countries : 297,854 lb. (\$87,718) in 1913, 1,087,188 lb. (\$628,976) in 1921.

Belgium): 100,240 lb. (\$34,384) in 1913.

Inited States) : 197,537 lb. (\$53,307) in 1913, 828,859 lb. (\$429,568) in 1921. Freece) : 230,503 lb. (\$191,374) in 1921.

TABLE D 25

EXPORTS FROM CANADA OF UPPER LEATHER

otal Exports : 417,004 lb. (\$102,869) in 1913, \$3,397,075 in 1921. o Empire Countries : 414,124 lb. (\$99,777) in 1913, \$2,336,647 in 1921. *Inited Kingdom*) : 356,799 lb. (\$2,814) in 1913, \$2,189,945 in 1921. *Vewfoundland*) : 56,625 lb. (\$16,464) in 1913. *Australia*) : 60 lb. (\$70) in 1913, \$73,385 in 1921. *Vew Zealand*) : 500 lb. (\$385) in 1913, \$71,172 in 1921. O Foreign Countries : 2,880 lb. (\$3,092) in 1913, \$1,060,428 in 1921. *Freece*) : \$244,741 in 1921. *Inited States*) : 2,780 lb. (\$3,046) in 1913, \$707,284 in 1921.

TABLE D 26

EXPORTS FROM CANADA OF HARNESS LEATHER

otal Exports : \$435,076 in 1921.

o Empire Countries : \$18,517 in 1921.

Inited Kingdom): \$3,655 in 1921.

Sardados): \$3,961 in 1921.

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)ther British West Indies): \$1,243 in 1921.

Vewfoundland): \$7,896 in 1921.

o Foreign Countries : \$416,559 in 1921.

Inited States): \$416,559 in 1921.

TABLE D 27

EXPORTS FROM CANADA OF LEATHER NOT OTHERWISE PARTICULARISED

otal Exports : 1,203,641 lb. (\$276,107) in 1913, \$436,094 in 1921. o Empire Countries : 1,073,577 lb. (\$250,060) in 1913, \$91,954 in 1921. Inited Kingdom) : 1,040,331 lb. (\$239,575) in 1913, \$63,178 in 1921. Iritish South Africa) : 296 lb. (\$148) in 1913, \$25,553 in 1921. Iewfoundland) : 17,046 lb. (\$5,774) in 1913, \$302 in 1921. Iew Zealand) : 14,051 lb. (\$3,784) in 1913, \$464 in 1921. o Foreign Countries : 130,064 lb. (\$26,047) in 1923, \$344,140 in 1921. Ielgium) : 10,700 lb. (\$5,000) in 1913, \$28,886 in 1921.

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Production Statistics of the Leather Boot and Shoe Industry in Canada, with Quantities and Values for the Calendar Years 1919, 1920 and 1921

	19	21	19:	20	1919		
Boots and Shoes :	No of pairs	Factory value	No of pairs	Factory value	No of pairs.	Factory value	
Men's			4,805,005		5,417,956	25,454,982	
Boys'	739,664	1,869,656	1,028,567	3,664,465	864,224	2,604,573	
Youths' .	443,780	1,253,984	521,910	1,453,387	565,037	1,269,860	
Ladies'	4,724,538	16,797,609	5,509,992	23,655,758	5,747,248	22,180,983	
Misses'.	848,287	1,812,895	846,994	2,197,996	1,404,494	3,139,493	
Girls'.	903,613	1,558,743	1,038,655	2,001,257	1,774,670	3,093,325	
Shppers :							
Men's, Boys' and							
Youths'	565,277	773,281	732,562	959,732	502,601	718,237	
Ladies', Misses' and					-		
Girls'	1,461,508	2,402,503	1,809,369	2,206,719	1,223,939	1,556,552	
Infants' shoes and							
slippers	1,074,145	1,102,475	814,975	811,424	861,505	855,441	
Larrigans	70,969	272,312	213,718	975,476	185,411	667,425	
Moccasins .	419,568	710,300	373,219	959,462	344,775	641,067	
All other products		735,854		1,171,785		1,080,267	
Custom and repair							
work		4 9,375		70,182		56,923	
	,- -	·					

Total . . 14,745,851 44,665,381 17,693,966 66,817,174 18,891,860 63,319,128

TABLE D 29

Imports into Canada of Boots and Shoes, Slippers, and Insoles of Leather

Total Imports: \$4,068,266 in 1913, \$2,175,209 in 1921. From Empire Countries: \$482,843 in 1913, \$363,615 in 1921. (United Kingdom): \$481,844 in 1913, \$358,451 in 1921. From Foreign Countries: \$3,585,423 in 1913, \$1,811,594 in 1921. (United States): \$3,547,503 in 1913, \$1,803,442 in 1921. (Germany): \$20,331 in 1913.

TABLE D 30

IMPORTS INTO CANADA OF BOOTS AND SHOES, PEGGED OR WIRE-FASTENED WITH UNSTITCHED SOLES, CLOSE EDGED

Total Imports : \$101,124 in 1913, \$22,912 in 1921. From Empire Countries : \$61,004 in 1913, \$2,133 in 1921. (United Kingdom) : \$61,004 in 1913, \$2,133 in 1921. From Foreign Countries : \$40,120 in 1913, \$22,779 in 1921. (United States) : \$39,988 in 1913, \$22,779 in 1921.

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EXPORTS FROM CANADA OF BOOTS AND SHOES

Total Exports : \$42,177 in 1913, \$1,441,338 in 1921. To Empire Countries : \$16,833 in 1913, \$1,021,138 in 1921. (United Kingdom) : \$12,733 in 1913, \$904,078 in 1921. (Newfoundland) : \$12,667 in 1913, \$90,564 in 1921. (New Zealand) : \$165 in 1913, \$6,052 in 1921. (British India) : \$8,959 in 1921. (British Guiana) : \$2,223 in 1921. (Hong-Kong) : \$1,236 in 1921. (Trimidad and Tobago) : \$4,546 in 1913, \$420,200 in 1921. (China) : \$119 in 1913, \$2,073 in 1921. (France) : \$50 in 1913, \$10,631 in 1921. (St. Pierre and Miquelon) : \$9,514 in 1913, \$17,925 in 1921. (United States) : \$15,611 in 1913, \$276,015 in 1921.

(Venezuela): \$37 in 1921.

TABLE D 32

IMPORTS INTO CANADA OF HARNESS AND SADDLERY, INCLUDING Horse Boots

Total Imports : \$243,371 in 1913, \$124,086 in 1921. From Empire Countries : \$77,217 in 1913, \$39,060 in 1921. (United Kingdom) : \$77,217 in 1913, \$38,762 in 1921.

From Foreign Countries : \$166,154 in 1913, \$85,026 in 1921. (United States) : \$165,866 in 1913, \$84,937 in 1921.

TABLE D 33

EXPORTS FROM CANADA OF HARNESS AND SADDLERY

Total Exports : \$13,259 in 1913, \$144,786 in 1921. To Empire Countries : \$3,415 in 1913, \$25,169 in 1921. (United Kingdom) : \$735 in 1913, \$3,564 in 1921. (Newfoundland) : \$2,107 in 1913, \$14,805 in 1921. (British South Africa) : \$3,000 in 1921.

To Foreign Countries : \$9,844 in 1913, \$119,617 in 1921. (United States) : \$5,819 in 1913, \$119,423 in 1921.

EXPORTS FROM CANADA OF LEATHER GLOVES AND MITTS

Total Exports : \$72,626 in 1921. To Empire Countries : \$66,340 in 1921. (United Kingdom) : \$22,070 in 1921. (Newfoundland) : \$16,747 in 1921. (New Zealand) : \$22,096 in 1921.

To Foreign Countries : \$6,286 in 1921. (United States) : \$6,055 in 1921.

TABLE D 34a

Imports into Canada of Gloves and Mitts of Leather

Total Imports : \$793,355 in 1921. From Empire Countries : \$280,368 in 1921. (United Kingdom) : \$280,368 in 1921.

From Foreign Countries : \$512,987 in 1921. (France) : \$398,776 in 1921. (Switzerland) : \$28,063 in 1921. (United States) : \$67,520 in 1921.

TABLE D 35

IMPORTS INTO CANADA OF LEATHER BELTING

Total Imports : \$253,826 in 1913, \$166,409 in 1921. From Empire Countries : \$49,595 in 1913, \$38,280 in 1921. (United Kingdom) : \$49,595 in 1913, \$38,280 in 1921.

From Foreign Countries : \$204,231 in 1913, \$128,129 in 1921. (United States) : \$204,229 in 1913, \$128,129 in 1921.

TABLE D 36

EXPORTS FROM CANADA OF LEATHER BELTING

Total Exports : \$4,864 in 1921. To Empire Countries : \$3,429 in 1921. (Newfoundland) : \$2,567 in 1921.

To Foreign Countries : \$1,435 in 1921. (United States) : \$1,122 in 1921.

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TABLE D 37

Imports into Canada of all other Manufactures of Leather and Raw Hides

Total Imports : \$820,321 in 1913, \$904,081 in 1921. From Empire Countries : \$78,038 in 1913, \$191,063 in 1921. (United Kingdom) : \$78,037 in 1913, \$190,942 in 1921. From Foreign Countries : \$742,283 in 1913, \$713,018 in 1921.

(France): \$730 in 1913, \$25,518 in 1921. (United States): \$737,076 in 1913, \$678,971 in 1921.

TABLE D 38

EXPORTS FROM CANADA OF OTHER MANUFACTURES OF LEATHER

Total Exports : \$14,674 in 1913, \$279,327 in 1921. To Empire Countries : \$5,060 in 1913, \$5,210 in 1921. (United Kingdom) : \$3,114 in 1913, \$1,473 in 1921. (Newfoundland) : \$1,771 in 1913, \$2,140 in 1921. To Foreign Countries : \$9,614 in 1913, \$274,117 in 1921. (Greece) : \$2,822 in 1921. (United States) : \$4,302 in 1913, \$269,019 in 1921. (France) : \$5,002 in 1913.

TABLE D 39

Imports into Canada of Extract of Logwood, Fustic, Oak, and Oak Bark and Quebracho

- Total Imports : 37,724,427 lb. (\$976,703) in 1913, 28,192,453 lb. (\$1,890,940) in 1921.
- From Empire Countries : 909,794 lb. (\$23,823) in 1913, 7,729,369 lb. (\$547,844) in 1921.
- (United Kingdom): 906,514 lb. (\$23,479) in 1913, 1,488,813 lb. (\$119,144) in

(Straits Settlements): 6,240,556 lb. (\$428,700) in 1921.

From Foreign Countries : 36,814,633 lb. (\$952,880) in 1913, 20,463,084 lb. (\$1,343,096) in 1921.

(Argentine): 1,585,337 lb. (\$99,083) in 1921.

- (United States): 36,367,119 lb. (\$936,288) in 1913, 18,877,747 lb. (\$1,244,013) in 1921.
- (Belgium) : 53,710 lb. (\$1,097) in 1913.

(France): 373,434 lb. (\$14,826) in 1913.

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TABLE D 39a

EXPORTS FROM CANADA OF HEMLOCK EXTRACT

Total Exports : \$24,480 in 1913, \$33,957 in 1921. To Empire Countries : \$20,520 in 1913, \$33,755 in 1921. (United Kingdom) : \$16,520 in 1913, \$31,300 in 1921. (Newfoundland) : \$4,000 in 1913, \$2,455 in 1921.

To Foreign Countries: \$3,960 in 1913, \$202 in 1921. (France): \$3,300 in 1913.

TABLE D 40

PARTICULARS FROM OFFICIAL SOURCES OF IMPORTS AND EXPORTS NOT INCLUDED IN PREVIOUS TABLES, PRACTICALLY THE WHOLE OF THE TRADE UNDER EACH HEADING BEING WITH UNITED STATES

		Year endi	ng March 31si.	
		913	I	221
	Quantity	Value	Quantity	Value.
Article	lb	\$	cwt	\$
Exports—				
Cattle hides and skins .	Not av	aılable	222,000	3,957,000
Sheepskins .	,,	,,	43,000	498,000
Hides and skins not otherwise				
particularised	,,	"	Not available	277,000
Total of hides and skins	Not available	7,196,000	,, ,,	4,732,000
Tanning bark	» » »	30,000	,, ,,	37,000
Imports—			lbs.	
Bichromate of potash and soda	Not av	ailable	1,265,000	252,000
Crude tanning materials .	,,	,,	171,000	22,000
Tanners' sciap leather .	54,000		Not available	19,600
Boots and shoes, rubber	Not available	96,000	,, ,,	269,000
Belting, rubber	»» »»	128,000		193,000

TABLE D 41

IMPORTS INTO UNITED STATES FROM CANADA

Hides and Skins (except Fur Skins)

		ntity lo		ntity. it (lb).	Value (\$).		
Calfskins :	1913	1921	1913	1921	1913	1921	
	. 43,227	216,911	212,893	1,365,249	61,365	281,403	
Green or pickled	716,887	560,572	5,717,117	4,406,119		734,433	
Cattle hides (12 lb. an	d						
over):							
	. 15,061	20,540	366,787	460,355	81,608	53,806	
Green or pickled	. 812,088	572,430	41,241,389	25,076,835	5,897,985	2,134,970	
а Р. ч У.							
à							

TABLE D 41-continued

	Qua. N	niity	Qua. Weigh		¥.1.	. (.)
Goatskins :	1913	1921	1913	1921	1913	ie (\$) 1921
Dry .	18,617	54,661	46,998	112,097	16,261	30,709
Green or pickled .	201	J+,	500		134	
Horse, colt or ass-skins .			2		51	
Dry	15,404	1,067	76,929	55,160	10,668	9,590
Green or pickled .	34,454	22,887	1,548,755	917,484	127,903	55,163
Kangaroo and wallaby-skins		-	8,468		5,680	
Sheepskins :					2.	
Dry	53,708	277,738	186,374	982,099	24,331	103,333
Green or pickled	489,356	462,889	1,675,574	1,872,151	166,036	168,317
All other		-	482,002	714,078	67,885	40,509
Total hides and skins			·			3,612,233
Hide cuttings, raw and other						
glue stock	-	Annual Sector		5,693,234	48,658	162,085

TABLE D 42

IMPORTS INTO UNITED STATES FROM CANADA

Leather and Leather Manufactures

	Qu	antity.	Value	s (\$)
Leather and tanned skins—	1913	1921	1913	1921
Chamois skins (lb.)	-		52	88
Glove leather (lb.)			101	97
Goatskins, tanned (skins for Mo-				,,
rocco) (lb.)		-	161	
Harness and saddle leather (lb.)	-	677,364	-	285,243
Patent, japanned, varnished or		1775-1		
enamelled (lb.)	-	51,621		104,726
Sole leather (lb.)	-	2,622,124	100,112	864,612
Upper leather, dressed-		2,022,124	100,112	004,012
Calf and kip (lb.)		- 9	- 16-	
		280,235	2,469	750,710
Goat and kid (lb.)		2,480	Numeron	3,206
Sheep and lamb (lb.) .		11,712		9,679
Other upper leather (lb.) .		295,805	533	396,496
All other leather (free) (lb.) .				261,416
,, ,, ,, (dutiable) (lb.) .			19,570	
Leather, manufactures of-				
Boots and shoes (pairs)		48,181	16,670	114,423
Gloves, women's and children's		40,-01	,-,-	
(doz. pairs)		57	Process	1,551
Gloves, men's (doz. pairs) .		57 38		622
All other manufactures : Free .		30		111,623
Dudable				
", ", Dutiable			9,571	3,479 "
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LEATHER, HIDES, AND SKINS

TABLE D 43

EXPORTS FROM UNITED STATES TO CANADA

Leather and Leather Manufactures

Leather	Quar		Val	ue (\$).
	1913	1921	1913	1921
Belting leather (lb.)	-	13,883	171,858	12,153
Carriage, automobile and up-		0 0	, , ,	
holstery (lb)			55,393	21,266
Glove (lb.).	1-1-1-1-1		312,052	589,334
Patent (sq. ft)		13,299		509,534
Sole	010 101		30,943	5,177
	213,404	591,219	57,293	164,782
Upper—				
Calf and kip (sq. ft.) .	692,625	477,152	148,252	208,995
Goat and kid ([^] , ['])	1,870,954	4,206,660	243,761	1,190,672
Cattle hides, grain and finished		4,200,000	243,701	1,190,072
splits (sq. ft.)		6		
Cottle aidea men and ment		620,444		112,231
Cattle sides, wax and rough splits				
(sq. ft.) .		169,213	-	50,613
All other upper			171,710	336,585
All other leather .		-	1,764,345	604,008
Dev. 1. 0. 7. 07			-77-75	004,000
Boots and Shoes—				
Children's (pairs)	182,278	21,943	141,216	23,647
Men's (,,) .	529,502	43,902	1,290,311	148,237
Women's (,,)	849,050	289,008	1,676,222	818,484
Gloves (doz. ")	- + 55- 50		1,070,222	
		803	been and	9,267
Slippers (,,)	299,782	18,730	299,897	39,983
Harness and saddles		-	214,875	59,858
Leather belting (lb.) .	-	48,121		67,103
All other manufactures			1,296,714	7,103
Total leather and manufactures of				760,041
			11,656,920	5,222,416

TABLE D 44

EXPORTS FROM UNITED STATES TO CANADA

Hides and Skins (except Fur Skins), Raw

						Quantr		Valu	e (\$).
Calfskins						1913	1921	1913	1921
Cattle hides	·				•	578,518	4,454,452	113,410	979,703
Horse-hides		·	·	•		11,123,899	6,025,705	1,798,911	633,421
All other	•					144,176	7,530	17,285	804
	•	•	•		•	1,099,204	1,241,908	155,972	217,932

1990 - 19900 - 19900 - 19900 - 19900 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990

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APPENDIX I

LIST OF TRADE ASSOCIATIONS

MASTER HARNESS MAKERS' ASSOCIATION (Secretary : Victor Dyas), 33 Richmond Street, Toronto.

BOOT & SHOE MANUFACTURERS' ASSOCIATION OF QUEBEC CITY (Secretary : J. S. Langlois), 566 St. Valier Street, Quebec.

SHOE MANUFACTURERS' ÁSSOCIATION OF CANADA (Secretary: Lionel Théoret), 6 Jordan Street, Toionto.

TANNERS' SECTIONS attached to the Board of Trade at Quebec and Toronto.

APPENDIX II

BIBLIOGRAPHY

TRADE PAPERS

LEATHER WORKER, 36 Dubrule Buildings, Montreal. FOOTWEAR IN CANADA, 347 Adelaide Street West, Toronto. SHOE AND LEATHER JOURNAL, 545 King Street West, Toronto.

OFFICIAL PUBLICATIONS AND REPORTS

MONTHLY BULLETIN OF AGRICULTURAL STATISTICS ANNUAL REPORT ON LIVE STOCK AND ANIMAL PRODUCTS. ANNUAL REPORT ON DAIRY PRODUCTS. ANNUAL REPORT ON SLAUGHTERING AND MEAT PACKING. ANNUAL REPORT ON LEATHER TANNERIES. ANNUAL REPORT ON HARNESS AND SADDLERY. ANNUAL REPORT ON LEATHER BOOTS AND SILOES. ANNUAL REPORT ON LEATHER GLOVES AND MITTS. ANNUAL REPORT ON TRUNKS, BAGS AND VALISES. ANNUAL REPORT OF THE TRADE OF CANADA. MONTHLY REPORT OF THE TRADE OF CANADA. MONTHLY SUMMARY OF TRADE STATISTICS. QUARTERLY REPORT ON VISIBLE SUPPLY OF HIDES AND SKINS. THE CANADIAN YEAR BOOK. (Issued annually). MEMORANDUM AND TABLES AS TO THE TRADE STATISTICS AND TRADE OF THE SELF-GOVERNING DOMINIONS. Issued by the Dominion Royal Commission, 1916 (C.D. 8156).

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SECTION E

AUSTRALIA

AUSTRALIA stands in a prominent position in respect of the leather industry, inasmuch as she is not only a large supplier of the raw materials for manufacturers in other countries, but is at the same time a substantial exporter of tanned leather. Before the War, in fact, she had, in proportion to her production, the greatest export of leather of any country of the world. The Australian authoritics take a quite definite attitude regarding the development of tanning in Australia by the aid of protective import duties, their view being that as they have the bulk of the raw materials ready at hand they should manufacture and export the products rather than the raw material. In this connection it is interesting to note here certain facts regarding the bark supplies which will be dealt with in greater detail later. At one time Australia was a substantial exporter of mimosa bark; she now, however, imports considerable quantities owing to the fact that high labour costs render the native article dearer for tanneries situated in a number of places than bark which can be imported from South Africa. Growers of the bark appealed for protection against the imported article, and a substantial import duty has been imposed.

Australia is well served in her official statistics, and it is possible to get quite a comprehensive account of the industry from official sources, though this would be easier if all the States adopted the same date for their returns. This survey can conveniently be made in the following order : (1) sheepskins; (2) hides; (3) tanning materials; (4) leather production, imports, and exports; (5) leather goods production, imports and exports.

Before starting a detailed survey reference may be made to Tables E I to 4, In which are given summary figures for three pre-War years and three post-War years of the imports and exports of various animal products associated with the ide, skins, leather, and allied industries, both by quantity and value. The facts regarding the individual items will be reviewed later. The average of the pre-War exports by value was $f_{4,4}60,000$, while the corresponding average imports were only $f_{230,000}$. Omitting figures for the very abnormal year 1019-20, he post-War exports averaged $f_{3,3}000,000$ and the corresponding imports inveraged $f_{650,000}$. It would appear from these figures that Australia's imports of these commodities (mainly hides and skins) are increasing at a substantial ate, while her exports are not increasing.

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SHEEPSKINS

A census of the number of sheep in the Dominion, in certain States on the oth June and in others on the 1st March, is taken. The returns show consider-

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able variation from year to year, but the pre-War comparison with the post-War figures is as follows :---

1912						•	93,004,000
1913			•		•	•	83,254,000
1919					•	•	87,086,000
1920				•	•	•	75,554,000
1921		•		•	•	•	77,898,000
1922	•	•	•	•	•	•	82,226,000

These figures indicate a reduction of approximately 10 per cent in sheep supplies.

Particulars are available as to the number of sheep slaughtered under (a) slaughtering establishments; (b) boiling-down establishments; (c) stations, farms, and country butchering establishments. As the standard of flaying of skins is probably higher in the case of (a) than under (c) it is of interest to note the separate figures, which for 1921-22 were :

(a)	•	•	•	•	•	•	9,949,000
(b)	•	•					17,000
(c)	•	•	•	•		•	2,481,000

The total number of sheep and lambs slaughtered in certain pre-War and post-War years were as follows :---

1912 .	•	•	•	•	•	13,539,000
1913 .	•	•	•	•		14,703,000
1918–19			•			10,463,000
1919-20			•			15,188,000
1920-21						10,844,000
1921–22						12,447,000

In the post-War period certain States, representing about one-half of the slaughterings, returned figures for twelve months ending June 30th, and the remainder for the calendar year. In the figures just quoted, the figure for 1918–19 includes those for certain States for the calendar year 1918, and for the other States for the twelve months ending June 30th, 1919. The post-War figures are, on the average, about 13 per cent less then the pre-War ones.

Table E 5 shows in detail the exports of woolled skins for 1913 and 1921, the totals in the two years being 10,950,000 and 7,270,000 respectively. Subtracting these from the corresponding figures of sheep slaughtered in the two years (figures for the calendar year 1921 being determined by a detailed analysis of the figures of the individual States) the numbers of skins worked upon in Australia are ascertained to be 3,700,000 in 1913 and 4,430,000 in 1921. The numbers of pelts produced in the fellmongeries were 3,740,000 in 1921 and 4,520,000 in 1921-22, these figures being in satisfactory agreement with the

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previous ones. Thus, before the War, Australia exported in the woolled form about 75 per cent of her sheepskins, while after the War the corresponding proportion was less than two-thirds. Only a small number of pickled pelts are exported from Australia (see Table E 6 for details), the total in 1913 being 160,000 and in 1921 120,000 pelts. Particulars are available of the number of sheepskins tanned in the Dominion, but these do not distinguish between Australian skins and imported ones (there is an appreciable import of sheepskins, see Tables E 7 to 9). Subtracting the above figures for exports from the corresponding numbers of fellmongered skins, however, indicates that the approximate numbers of skins tanned in Australia were 3,600,000 in 1913 and 4,400,000 in 1921-22, being about one-quarter of the skins produced in the Dominion in 1913 and one-third in 1921-22.

Table E 5 shows that the woolled shccpskins exported go mainly to the United Kingdom and France, the latter country standing first. A proportion (see Table B 41 of Section B) coming to this country is re-exported, but the bulk are fellmongered here and are then used for a variety of purposes. During the War they were in demand for jerkin leather. Being almost entirely from merino sheep they do not possess the quality of the skin from cross-bred sheep of Great Britain and New Zealand, and cannot be used for such special work as, for example, roller skins. The only other countries taking appreciable quantities of woolled skins from Australia are Belgium and the United States.

The pickled pelts exported go mainly to the United Kingdom and the United States, and a large proportion of those reaching this country are subsequently re-exported (see Table B 42 of Section B).

HIDES AND CALFSKINS

Table E 10 gives detailed particulars of cattle, etc., at the last census (1921-22) for which figures are available.

The number of cattle and horses in the Dominion in certain pre-War and post-War years were as follows : (the same explanation of date holds as in the case of sheepskins).

-						Cattle.	Horses.
1912						11,829,000	2,278,000
1913	•				•	11,577,000	2,407,000
1919	•		•		•	12,739,000	2,527,000
1920		•			•	12,711,000	2,421,000
1921	•	•		•	•	13,500,000	2,416,000
1922		•				14,441,000	2,438,000

The number of cattle has increased substantially, the average post-War figure eing nearly 14 per cent in excess of the corresponding pre-War average. Figures re collected each year of the number of calves born in each of the Federal States xcept Victoria, and from these figures it would appear that the number of alves born is about 25 per cent of the number of cattle shown at the date of numeration. The number of calves born is probably therefore in the neighbourood of 3,500,000 annually.

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The returns of cattle slaughtered (which do not distinguish between calves and other cattle) show the following annual figures :---

1912 .	•	•				1,529,000
1913 .						1,780,000
1918-19						1,335,000
1919-20	•					1,598,000
1920-21				•		1,537,000
1921–22	•	•	•		•	1,649,000

In 1921–22, 1,548,000 of the total were killed in large slaughtering establishments.

These figures, proportionally to the number of living cattle, are very much below those in the United Kingdom, and evidence will be given later indicating that they considerably understate the actual slaughter. It is understood that, owing to the inability to obtain an assured market for meat abroad under post-War conditions, the numbers of cattle will be diminished in Australia. This will temporarily have the effect of increasing the supply of hides, but subsequently the numbers available each year will be on a diminishing scale.

As both the imports and exports of hides are known by number, it is possible to show the number of hides available for tanners and to compare these figures with those published of the number of hides actually used by tanners. The comparison is :---

-			Native Hides and kins produced. (000)	Imports of Hides and Calfskins. (000)	Exports of Hides and Calískins, (000)	Consumption of Hides and Calfskins. (000)	Hides and Caliskins treated by Tanners. (000)
1912			1,529	97	549	1,077	1,446
1913	•	•	1,780	86	821	1,045	1,422
1918–19			1,335	132	289	1,178	1,742
1919-20	•		1,598	260	745	1,113	1,994
1920-21			1,537	206	309	1,434	2,023
1921-22	•	•	1,649	313	535	1,427	2,329

There is a marked discrepancy between the corresponding figures in the last two columns. Both the import figures and the export ones ought possibly to be increased by the inclusion of figures returned under "other skins," but it is probable that the deficiency due to this cause is greater in the export figures than in the imports, and this would aggravate the discrepancy between the last two columns. The most likely explanation is that the figures of cattle slaughtered are understated, particularly with regard to calfskins. In 1921-22 out of 2,300,000 cattle hides and calfskins tanned 840,000 were calfskins. Many of these were, however, imported from New Zealand. The Australian de Returns do not state the number, but the New Zealand Returns of ~rts to Australia showed 362,860 calfskins in 1922. It is probable that 'atistics of imports, exports, and of hides and, skins tanned are more ite than are statistics of animals slaughtered. Assuming the accuracy of mmer, and the inaccuracy of the latter, it would appear that in recent

AUSTRALIA

years the figures of slaughter are about 500,000 annually less than the number of native hides and calfskins actually available.

EXPORTS AND IMPORTS OF HIDES AND CALFSKINS

On the balance Australia is a substantial importer of calfskins. Details of the exports of these skins are shown in Table E 11, but separate figures for the imports are not published in the Australian official volumes, but are included with cattle hides in Table E 15. The New Zealand returns show that the exports from that country of calfskins to Australia was 363,000 in 1921-22, as compared with a total export from Australia of less than 90,000 skins (Table E 11). Two-thirds of these skins went to the United States. The figures of exports of calfskins in 1913 arc included in Table E 14 under the heading "Hides and skins not otherwise specified." It is clear, however, from a comparison of Tables E 11 and 14, that the exports of calfskins diminished considerably between 1913 and 1921-22.

Table E 12 gives particulars of the exports of cattle hides. These fell in number from 1,068,000 in 1913 to 446,000 in 1921-22, and in value from $\xi_{1,655,000}$ to $\xi_{530,000}$. These exports are spread over many countries. In 1913 one-third came to the United Kingdom, but Belgium, Germany, and the United States took substantial quantities. The same countries were prominent n the exports in 1921-22, but the proportion coming to the United Kingdom ncreased to more than 50 per cent. Table E 15 gives the details of the imports of cattle hides and skins. These nearly doubled in number, almost entirely lue to the increased importation of calfskins from New Zealand.

The branding of hides in Australia is a serious deficiency from the tanners' point of view, and in certain of the States fairly complete control is now exercised. Special reference may be made to the Act passed by the State Governor of Victoria in 1922 under the title "An Act relating to the Branding and Ear-marking of Stock." The Victorian Government, for the purpose of his Act, obtained the unrestricted rights of use in Victoria of the scheme of vranding and ear-marking stock devised by Mr. W. A. N. Robertson and lescribed in his book entitled *Branding and Ear-marking Stock*. By this ngenious scheme no fewer than 4,500,000 brands, of which no two are alike, an be simply made, each single one of which can be made within the area overed by a square of $3\frac{1}{2}$ inches side. The Act stipulates the positions upon thich horses or cattle must be branded shall be as follows :---

ist p	ositio	n.			left shoulder
2nd	,,		•	•	right "
3rd	,,	•		•	left thigh
4th	,,	•	•	•	right "
5th 6th	,,	•	•	٠	left neck
oth ,	"	•	•	·	right "

'he thigh means that portion of the hind leg of the animal below the hip joint. Il brands have to be registered and they are accepted as prima facie evidence

of ownership. Substantial penalties are enacted for offences against the Act.

Recently an amendment has been proposed to the Stock Brands Act in New South Wales.

"The proposed amendment provides that the brands shall be placed on one side of a beast and kept off the rubs. This will mean that one-half of each hide shall have no brands at all, disfiguring or otherwise, and this is regarded by the tanners as providing a certain measure of relicf which will be felt later on, and may lead to similar legislation in Queensland, the great cattle-breeding State. Under existing regulations, and during the suspension of the Act passed two years ago, it is permissible, and in fact the practice, when a beast changes ownership, to place the new owner's brands on the opposite side of the hide, the result being that about 20 per cent of all the hides were brand-damaged and worth less by $\frac{1}{2}$ d. to $1\frac{3}{2}$ d. and 2d. per lb. New Zealand hides invariably bring more in the Australian markets because they are well known to be much freer of damage through branding."—The Australasian Leather Trades Review, 14th September, 1923.

TANNING MATERIALS

The only tanning material used in Australia of which there is general information is tanning bark. Australia is the home of wattle bark, and for a long time maintained a substantial export trade in this article. Its introduction into South Africa, however, and the wonderful development of the industry there has supplied the whole world with a tanning agent, and Australia has ceased to be an exporter except to an almost inappreciable extent, and during the War required to import a substantial amount from South Africa.

The pre-War position regarding bark may be compared with the post-War situation by means of the following figures :---

						Imports.	Exports	Excess of Exports.	Baık used.	Bark produced
1911						3,600	12,700	9,100	27,100	36,200
1912						6,000	8,400	2,400	26,700	29,100
1913	. •	•	•			3,900	7,200	3,300	25,500	28,800
12 mon	ths e	ending	June,	1920		3,900	3,600	300	32,000	31,700
,,		,,	,,	1921		2,400	3,300	900	27,300	28,200
,,		,,	,,	1922	•	1,700	900	800	30,800	30,000

In the three years preceding the War there was an excess of exports averaging about 5,000 tons per year. In the three years following the War exports and imports approximately balanced. The statistics would indicate a steadily increasing dependency on external sources of supply, but a forecast of the future which omitted to study the probable tendency of prices would certainly be deficient. Australia has imported bark because it has been available at prices below those of the native supplies; if the price of the African bark rises it may be possible to satisfy the whole of the requirement of her tanners at prices below those at which bark can be imported. The price of South African bark has been low for the past two years ; so low, indeed, that many plantations have not been replanted. The evidence is that supplies in the next few years will be below those of the past three or four years, and as there seems to be no reason for a falling off in demand there is likely to be an increase in price maintained over an extended period (already, early in 1924, there are symptoms of this). If this view is correct, it would seem likely that Australia will import less bark and may be in a position to export more, and that her own wattle industry will revive. If the price rises sufficiently export to Europe may start again (exports of recent years have been almost entirely to New Zealand), and in this connection the following figures giving the values per ton of the imports and exports over a series of years are of interest :—

			Value	e per ton of	Imports and Exports of Bark. Exports.
				Imports £	£
1911 .				8.6	8.2
1912 .				8.6	8.6
1913 .				7.2	8-4
1914-15			•	75	8 2
1915–16				7.8	88
1916–17			•	69	97
1917–18	•		•	7.0	94
1918–19		•	•	8.5	10 3
1919–20	•	•	•	86	12.2
1920–21	•	· •	•	8.3	14.3
1921–22	·	•	•	9.3	13.9

Before the War the import and export values did not widely differ; since the War, however, the export prices have been much higher, the explanation apparently being associated with the fact that Australia imports direct from South Africa but exports to New Zealand, which country does not import direct from South Africa.

The figures previously given show that the consumption of bark in the three post-War years was 12 per cent in excess of the consumption in the three pre-War years. The corresponding increase in the consumption of hides and skins was about 20 per cent.

The position of Australia with regard to raw materials may be summarised as follows for 1921-22:---

				Hides and Skins. £(000)	Tanning Materials. f(000)	Total £(000)
Production				4,600	360	4,960
Imports				480	20	500
Exports				1,910	10	1,920
Consumption	•	•	•	3,170	370	3,540

LEATHER PRODUCTION

Table E 18 gives a few particulars of the tanning establishments in the Dominion in 1921-22. There were in all 164 tanneries employing 4,438 workpeople ; 102 of these, however, employed less than 20 each ; 10 of them employed more than 100 employees, and the average number for these 10 was 156quite a substantial number of employees for a tan-yard. Reference has already been made to the number of hides and skins tanned and to the quantity of bark consumed. Table E 20 shows the value of leather produced under the two headings (a) sole and belting, kip, calf and other; (b) basils, i.e. from sheepskins. The average value of the former for 1912 and 1913 was £2,700,000 and for 1920-21 and 1921-22 was £5,250,000, an increase of 95 per cent, but owing to the different price levels during the periods compared this probably represented only a small increase in quantity. The basils produced in 1912 and 1913 averaged £197,000, the figures for 1920-21 and 1921-22 averaging £357,000, or an increase of 80 per cent. Table E 19 shows that for 1921-22 the total value of the production of tanneries was £5,450,000, the value of the materials used being $f_{3,680,000}$, or rather less than 70 per cent of the output. For the year 1913, the corresponding output was £3,030,000, the materials used being valued at £2,400,000, or about 80 per cent of the output.

Table E 21 shows for 1913 and 1921 the value of the leather exported, and no details of quantities or of varieties are available. From Tables E 22 to 27 the values of the corresponding imports are obtained. A comparison of production, imports, and exports can accordingly be made as follows :---

			1913 £(000)	1921–22 L(000)
Production of leather	•	•	3,030	5,450
Exports ,, ,,	•	•	628	738
Imports ,, ,,	•	·	393	221
Consumption "	•	·	2,795	4,933

In 1913 the imports were 14 per cent of the consumption; in 1921-22 they were $4\frac{1}{2}$ per cent. In 1913, again, the exports were 21 per cent of the production; in 1921-22 the corresponding proportion was less than 14 per cent. As has been previously mentioned, this proportion of exports is the highest for any large leather-producing country, with the probable exception of India, for which no production figures are available, and the circumstances of which are vastly different from other countries producing leather. The corresponding figures of production for other parts of the Empire are given in the appropriate sections, and are summarised in Section A.

The figures of the imports and exports of leather cannot be given in the same detail as in the case of the United Kingdom and some of the other Dominions. The statistical basis of the import and export classifications is, to some extent, determined by the import tariff, which is given in detail in the Appendix on page 249. Moreover, direct comparison between 1913 and 1921-22 is rendered difficult by change in the form of returns.

Comparison of the imports are shown in detail in Tables E 22 to 27. The imports of sole leather are very small, the general tariff being 35 per cent and the Empire preferential tariff 25 per cent. There is a small importation of so-called green-hide leather, the general and preferential tariff in this case being 46 per cent and 30 per cent respectively, and a very small importation of belting butts. There is a substantial importation of rough-tanned sheep- and goatskins, shown in detail in Table E 23, and amounting to $f_{31,000}$ in 1921–22, most of this coming from the United Kingdom and New Zealand. A substantial amount of this leather enters free, in 1921-22 about one-sixth being subject to duty of 10 per cent. The type of leather on which Australia is most dependent for imported supplies is patent and enamelled leather. Of this, over 2,000,000 feet were imported in 1913 and nearly 1,200,000 feet in 1921-22 (compared with 2,400,000 feet in 1920-21). Particulars of these imports are given in Table E 24, from which it will be noted that practically the whole imports now came from the United States, though before the War 40 per cent came from Germany. The general rate of duty on this leather is 6d. per square foot, or 35 per cent (whichever is the greater), the preferential tariff being 3d. per square foot, or 25 per cent. In 1921-22 more than three-quarters of the imports were subject to the *ad valorem* duty. The only other type of leather specifically referred to in the import returns is "Calf, other than Patent and Enamelled " (see Table E 25), and this is probably mainly box and willow calf upper leather, though some rough-tanned calf may be included. This leather, subject to a general tariff of 35 per cent and a preferential one of 25 per cent, came almost entirely from the United States in 1921-22 and amounted to about £18,000. In 1913, however, Germany supplied more than 50 per cent.

More than half the imports of leather are included under the heading "Leather not otherwise specified." This includes glacé kid upper leather, which is subject to a general duty of 18. per square foot, or 35 per cent, or a preferential duty of 9d. per square foot, or 25 per cent. In 1921-22 rather more than one-half paid duty on the *ad valorem* basis. The details of these imports for 1913 and 1921-22 are shown in Table E 26; 70 per cent in 1913, and nearly the same proportion in the post-War years came from the United States, the share of the United Kingdom being about 15 per cent.

The information available regarding leather exports is very meagre, sole leather only being specifically referred to (in 1921-22 only, but not in 1913), and leather to a much greater value being exported as "not otherwise specified." The sole leather figures for 1921-22 are given in Table E 21a, and for purposes of comparison with 1913 these figures are included again in Table E 21, which gives details of total leather exports. Over 50 per cent of the sole leather exported comes to the United Kingdom, but a substantial quantity goes to Hong-Kong, Dutch East Indies, China, and New Zealand. The other leather exported also comes mainly to the United Kingdom ; of the total exports nearly 70 per cent in 1913 and nearly 50 per cent in 1921-22 came to this country. Exports to New Zealand considerably increased, as did also those to India. Further information on the trade between Australia and the countries mentioned will be found in the other sections of the book. Of the total exports, 98 per cent both in 1913 and in 1921-22 went to the other parts of the Empire.

There is not much information available also regarding the foreign trade in leather manufactures. Table E 28 gives particulars of the imports of boots, etc., in 1913 and 1921-22, but by value only, quantities not being stated in the returns. The general import tariff on boots is 45 per cent to 50 per cent, while the preferential tariff is from 35 per cent to 40 per cent. The imports, which were valued at over $f_{480,000}$ in 1913, were reduced to $f_{80,000}$ in 1921–22 in spite of the high price level. These figures of imports must be considered in conjunction with the corresponding figures of exports given in Table E 29, which table shows that between 1913 and 1921-22 exports of boots increased in value from \pounds 14,000 to \pounds 106,000. The chief feature of this increase was the development of a considerable trade with New Zealand. which country took £66,000 of Australian boots in 1921-22 compared with £1,100 in 1913. In the same period the exports of boots from the United Kingdom to New Zealand decreased from 1,200,000 pairs, valued at £305,000, to 210,000 pairs, valued at £103,000. The comparison of these figures shows the Australian industry in a very favourable light, but more recent experience has been much less favourable, and this development can be

"The Australian boot and shoe industry is rapidly losing the export trade built up during the years immediately following the war. Exports have fallen from a value of $\pounds 837,322$ in 1919-20 to $\pounds 27,047$ in 1922-23.

"During the War period, while United Kingdom manufacturers were unable to supply footwear to South Africa, New Zealand, the Pacific Islands, and Java, the requirements of these countries were drawn from Australia, and naturally the trade developed to a remarkable extent. When the trade began to slacken efforts were made to organise an export association comprising most of the large manufacturers. Trade jealousies, however, intruded, and the project had to be abandoned. The value of the trade is now practically the same as it was in 1913.

"While the export trade has practically ceased, the position as regards imports is causing manufacturers some anxiety. During 1914 the imports of boots and shoes amounted to f.672,506, which, with duty, landing, and other charges added, meant that about f.900,000 worth of footwear worn in Australia came from Britain and foreign countries. By 1918-19, however, the imports had fallen to f.216,755, while the figures for 1921-22 were f.154,587. Imports during the fiscal year ended June 30th last amounted to f.362,780, an increase of f.208,193 over the previous year, while for the first quarter of the present year the increase over the corresponding period of 1922-23 was f.26,619, or 40 per cent. If this rate of increase continues the value of the imports for the complete year will be well over f.500,000.

"Manufacturers complain that the duty on materials not procurable in Australia, varying from 45 to 75 per cent, is a serious handicap to the industry."

There is a fair amount of information available regarding the boot industry in Australia. Table E 18 shows that the number of establishments engaged in manufacturing boots was 744, employing altogether 20,390 workpeeple. Of these, however, 350 employed less than 5 each. Fifty-seven had more than 100 employees, the average number employed in these being nearly 200. These figures show a marked development over 1913, when only 13,456 workpeople were employed in 346 establishments. Table E 19 shows that in 1921–22 the value of the materials used in the boot factories were £10,250,000, the value of the materials being rather more than 50 per cent of the products. For 1913 the value of the products was £4,000,000 from materials valued at £2,300,000, the latter being 58 per cent of the former.

The increase in the output of boots was much less than the increase (over 50 per cent) in employees, the figures being as follows :----

			В	oots and Shoes Pairs (000)	Shppers Pairs (000)	Total Pairs (000)	Total Value £(000)
1911				10,800	700	11,500	3,600
1912	•		•	10,600	700	11,300	3,700
1913	•			10,400	600	11,000	3,900
1919-20	>			12,300	1,100	13,400	9,700
1920-21	ε	•		10,300	1,100	11,400	7,500
1921-22	2			13,200	1,500	14,700	9,000

Taking the total number of pairs of boots, shoes, and slippers, the average of the three post-War years was about 17 per cent above the average of the three pre-War years. The number of pairs per employee in 1913 was about 800 and in 1921-22 was about 700. In the United States in 1909 the number was 1,550 per person employed and in 1919 was slightly higher. In 1913 the import of boots, etc., was about 13 per cent of the production, but in 1921-22 less than 1 per cent.

LEATHER BELTING AND OTHER LEATHER MANUFACTURES

Similar progress is to be reported in the case of leather belting and other leather manufactures. The number of establishments engaged in 1913 was 67, employing 1,200 workpeople. In 1927-22 there were 115 establishments employing over 2,400 workpeople, or double the number employed in 1913. The production of these in 1913 was $\pounds 560,000$ from materials valued at $\pounds 360,000$, and in 1921-22 the production was $\pounds 1,450,000$ from materials valued at $\pounds 810,000$. No other details are available of the production of these industries.

The imports of leather belting declined considerably between 1913 and 1921-22 (see Table E 30), the figures being $\pounds_{32,000}$ in the former year and $\pounds_{8,500}$ in the latter. Most of the belting was imported from the United Kingdom. The decline in the imports of belting other than leather was not so marked,

the figures being £77,000 and £61,000 respectively, most of it coming from the United Kingdom (see Table E 31). The exports of leather belting, though small in bulk, increased from £6,000 to £12,000 in the period in question (see Table E 32).

No other manufactures of leather are specified in the Trade Returns. The total imports of leather manufactures "not otherwise specified" were valued at $f_{55,000}$ in 1913 and $f_{73,000}$ in 1921-22 (see Table E 34), most of it coming from the United Kingdom. The corresponding exports of leather manufactures "not otherwise specified" were $f_{12,000}$ in 1913 and $f_{23,000}$ in 1921-22, these going chiefly to New Zealand and the Pacific Islands.

A little information is available regarding the Australian industry in harness and saddlery. The number of establishments in 1913 was 234 and in 1922 158. The corresponding number of workpeople were 2,538 and 1,866, showing a substantial reduction under both heads. The value of the products from these were valued at $\pounds_{720,000}$. For 1921-22 the figures were $\pounds_{480,000}$ and $\pounds_{92,000}$ respectively.

The position regarding production and consumption of leather goods in 1921-22 may be summarised as follows :---

						Value <u>(</u>
Production						12,600,000
Imports .						270,000
Exports .				•		1 50,000
Consumption	•	•	•	•	•	12,720,000

EXPORTS OF ANIMAL PRODUCTS

QUANTITIES									
Article	e.		1911	1912	1913	1919-20	1920-21	1921-22	
Bones (cwt.)			19,273	22,851	41,175	33,689	27,680	24,932	
Glue pieces (cwt.)			29,872	33,933	38,934	8,803	3,480	5,754	
Hair (lb.) (ooo) .	•		507	558	546	743	270	109	
Hoofs (cwt.)	•		8,832	10,652	12,911	11,926	8,940	11,003	
Horns .				Not given	by quan	tities			
Cattle hides, No. (oo	io)			0		569	262	446	
Calfskins, No. (000)	ſ		549	821	1,068	175	47	89	
Horse-hides No.			2,070	12,566	5,150	4,403	499	1,172	
Sheepskins, No. (ood			9,914	10,936	11,104	10,223	5,183	7,387	
Rabbit and hareskins			93	88	87	128	50	74	
Other hides and skin	.8	·		Not given	ı by quan	tities			

TABLE E 2

EXPORTS OF ANIMAL PRODUCTS VALUE f(000)

			AUTOR	5(000)				
Artu	le		1911	1912	1913	1919-20	1920-21	1921-22
Bones			10	13	23	34	24	21
Glue pieces			14	18	24	16	8	9
Hair			33	41	37	77	36	13
Hoofs .			3	.5	6	15	Ğ9	7
Horns			27	32	32	55	31	35
Cattle hides		٦		•		1,504	375	530
Calfskins .		Ì	610	999	1,655	163	15	28
Horse-hides		-	I	8	3	7		I
Sheepskins			1,614	2,004	2,489	2,599	1,242	1,353
Rabbit- and haresk	ins		499	577	621	3,672	976	788
Other hides and ski	ns	•	503	702	777	2,672	834	441
Total			3,314	4,399	5,667	10,814	3,550	3,226

TABLE E 3

IMPORTS OF ANIMAL PRODUCTS

QUANTITIES

Article Bones (cwt.)	1911 2,122	1912 1,966	1913 3,327	1919–20 4,491	1920-21	1921-22		
Glue pieces (cwt.)	661	900	637	645	3,520 7,400	3,214 767		
Hair (lb.)	218,937	405,454	266,531	133,453	169,290	234,896		
Hoofs (cwt) Horns	215	230 Not ci	435 iven by qu	544	1,360	388		
Cattle hides (No)		Not gi	iven by qu	170,450	224,119	243,251		
Calfskins (No.)	96,754	86,247	133,384	35,212	89,323	208,122		
Horse-hides (No.)	1,172	1,433	1,809	3,213	4,155	4,304		
Sheepskins (No) Rabbit- and hareskins (cwt.)	165,045 169	284,896	106,061	79,254	65,718	606,691		
Other hides and skins (cwt.)	169 122 1494 58 191 19 Not given by quantities							

IMPORTS OF ANIMAL PRODUCE

			VALUE				
Article		1911	1912	1913	1919-20	1920–21	1921-22
Bones		398	466	888	2,696	1,896	1,470
Glue pieces		241	229	288	715	7,742	816
Hair		7,533	11,530	8,836	9,667	7,712	6,425
Hoofs .		122	122	169	923	339	359
Horns		1,803	1,559	1,612	2,533	1,562	517
Cattle hides	٦				552,187	465,979	364,593
Calfskins .	Ĵ	143,296	134,033	238,543	27,728	34,481	68,421
Horse-hides .		597	1,248	1,237	4,980	3,900	4,143
Sheepskins	•	10,693	15,470	8,221	13,628	14,294	48,239
Rabbit- and hareskins		1,318	871	1,143	1,634	6,939	3,470
Other hides and skins		25,784	53,959	31,322	403,050	118,486	152,235
					-		
Total .	•	191,785	219,487	292,259	1,019,741	663,330	650,688

TABLE E 5

EXPORTS FROM AUSTRALIA OF SHEEPSKINS WITH WOOL

- Total Exports : 10,949,232 (£2,482,059) in 1913, 7,270,660 (£1,346,582) in 1021-22.
- To Empire Countries : 3,861,161 (£804,432) in 1913, 3,136,863 (£660,714) in 1921-22.
- (United Kingdom): 3,861,161 (£804,432) in 1913, 3,107,112 (£654,748) in 1921-22.
- To Foreign Countries: 7,087,071 (£1,677,627) in 1913, 4,133,797 (£685,868) in 1021-22.
- (Belgium): 996,821 (£335,569) in 1913, 445,372 (£88,427) in 1921–22.

 $\begin{array}{c} \label{eq:constraint} (France): 5,932,257 (\pounds 1,315,156) in 1913, 3,227,201 (\pounds 533,165) in 1921-22. \\ (United States): 99,037 (\pounds 15,127) in 1913, 387,773 (\pounds 52,009) in 1921-22. \end{array}$

TABLE E 6

EXPORTS FROM AUSTRALIA OF SHEEPSKINS WITHOUT WOOL

- Total Exports : 155,702 (£7,062) in 1913, 116,553 (£6,880) in 1921–22.
- To Empire Countries: 128,578 (£5,130) in 1913, 52,998 (£2,457) in 1021-22.
- (United Kingdom): 128,578 (£5,130) in 1913, 42,078 (£1,738) in 1921-22.

To Foreign Countries : 27,124 (£1,932) in 1913, 63,555 (£4,423) in 1921-22. (United States): 21,760 (£1,550) in 1913, 56,559 (£4,006) in 1921-22.

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IMPORTS INTO AUSTRALIA OF SHEEPSKINS WITH WOOL

Total Imports : 2,289 (£475) in 1913, 87,669 (£6,326) in 1921–22. From Empire Countries : 1,669 (£356) in 1913, 87,274 (£6,299) in 1921–22. (New Zealand) : 547 (£107) in 1913, 68,836 (£5,566) in 1921–22. (Straits Settlements) : 17,758 (£667) in 1921–22. From Foreign Countries : 620 (£119) in 1913, 395 (£27) in 1921–22.

TABLE E 8

Imports into Australia of Sheepskins without Wool

Total Imports : $103,772 (\pounds7,746)$ in $1913, 519,022 (\pounds41,913)$ in 1921-22. From Empire Countries : $101,518 (\pounds7,599)$ in $1913, 519,022 (\pounds41,913)$ in 1921-22.

New Zealand): 100,694 (£7,547) in 1913, 510,378 (£40,657) in 1921–22. From Foreign Countries: 2,254 (£147) in 1913.

TABLE E 9

IMPORTS INTO AUSTRALIA OF SHEEPSKINS, NOT OTHERWISE SPECIFIED

Fotal Imports : £31,322 in 1913, £152,235 in 1921-22. ³rom Empire Countries : £29,833 in 1913, £146,842 in 1921-22. *India*) : £20,018 in 1913, £136,290 in 1921-22. *New Zealand*) : £8,048 in 1913, £6,770 in 1921-22. ³rom Foreign Countries : £1,489 in 1913, £5,393 in 1921-22.

TABLE E 10

PARTICULARS OF LIVE STOCK ON 31ST DECEMBER, 1913 AND 1921-22

							-					1921-22	31st Dec , 1913
Iorses												2,438,182	2,521,983
'attle, dair	y, i	n m	ılk						1,670,2	299			1,533,595
		lry							672,9	22			534,600
ther cattl	e			•	•		•		12,098,0	88			
												14,441,309	9,415,687
heep							•				8	82,226,470	85,057,402
igs												960,385	800,505
oats	•			•		•			•			240,908	262,272
amels												11,738	10,822
Iules	•			•	•		•					3,7232	8,215
onkeys	•								•			11,411	0,215
striches	•			•	•							780	1,908
1921	Sh	eep	born	(ex	clusiv	e of V	(ictoria)					18,098,0	00
-						pulati						69,900,0	
1921	Cal						Victoria)			35. ·	2,854,0	00
		Οt	it of	cat	tle po	pulati	on of	٠.			- AR	12,691,0	00

TABLE E IT

EXPORTS FROM AUSTRALIA OF CALFSKINS (1921 ONLY)

Total Exports : 88,721 (£28,415) in 1921-22. To Empire Countries : 22,421 (£4,129) in 1921-22. (United Kingdom): 16,320 (£2,431) in 1921-22. (Hong-Kong): 6,005 $(f_{1,605})$ in 1921-22. To Foreign Countries : 66,300 (f,24,286) in 1921–22.

(Germany): 4,280 (f,1,004) in 1921–22.

(United States): 60,660 ($f_{22},860$) in 1921–22.

TABLE E 12

EXPORTS FROM AUSTRALIA OF CATTLE HIDES

- Total Exports: 1,067,925 (f.1,654,878) in 1913, 446,118 (f.529,920) in 1021-22.
- To Empire Countries: 376,059 (£603,851) in 1913, 246,738 (£301,280) in 1021-22.
- (United Kingdom): $_{358,499}$ ($_{5578,933}$) in 1913, $_{230,333}$ ($_{274,675}$) in 1921–22. (Canada): 11,205 ($_{216,622}$) in 1913, 11,364 ($_{21,349}$) in 1921–22. (New Zealand): $_{6103}$ ($_{8,904}$) in 1913, 338 ($_{844}$) in 1921–22.

(Hong-Kong): 3,001 (f,3,762) in 1021-22.

- To Foreign Countries: 691,866 (f,1,051,027) in 1913, 199,380 (f,228,640) in 1021-22.
- $(Belgium): 243,468 \ (f_{3}85,095) \ in \ 1913, \ 31,092 \ (f_{3}37,449) \ in \ 1921-22.$
- (France): 16,208 (£20,078) in 1913, 5,174 (£6,291) in 1921-22.
- $\begin{array}{l} (Germany): 204,553 (\pounds 338,410) \text{ in } 1913, 56,814 (\pounds 56,627) \text{ in } 1921-22. \\ (Italy): 85,984 (\pounds 102,834) \text{ in } 1913, 28,082 (\pounds 26,169) \text{ in } 1921-22. \end{array}$
- (fapan): 155 (f_{335}) in 1913, 8,089 $(f_{6},828)$ in 1921–22.
- (Sweden): 1,000 (f,1,978) in 1913, 5,550 (f,6,984) in 1921–22.
- (United States): 136,687 (£196,583) in 1913, 59,141 (£80,405) in 1921-22.

TABLE E 13

EXPORTS FROM AUSTRALIA OF HORSE-HIDES

Total Exports : 5,150 (£3,093) in 1913, 1,172 (£858) in 1921–22. To Empire Countries : ,2,050 (£1,262) in 1913, 1,172 (£83) in 1921-22. (United Kingdom): 2,050 (£,1,262) in 1913, 172 (£83) in 1921-22.

To Foreign Countries : 3,100 (£1,831) in 1913, £775 in 1921-22. (Germany): 2,035 $(f_{1,195})$ in 1913.

EXPORTS FROM AUSTRALIA OF HIDES AND SKINS, NOT OTHERWISE SPECIFIED

Total Exports : £777,345 in 1913, £2,634 in 1921-22. To Empire Countries : £350,329 in 1913, £959 in 1921-22. (United Kingdom): £333,033 in 1913, £554 in 1921-22. (Canada): £16,736 in 1913. To Foreign Countries : £427,016 in 1913, £1,675 in 1921–22.

(Belgium): £63,220 in 1913.

(France): $\pounds 8,728$ in 1913. (Germany): $\pounds 90,625$ in 1913.

(Italy): $\pounds 6,088$ in 1913. (United States): $\pounds 258,338$ in 1913, $\pounds 823$ in 1921–22.

TABLE E 15

IMPORTS INTO AUSTRALIA OF CATTLE HIDES AND SKINS

Total Imports : 133,384 (£238,543) in 1913 ; 243,251 (£364,593) in 1921-22. From Empire Countries : 95,429 (£154,325) in 1913, 191,012 (£260,091) in 1021-22.

(United Kingdom): 1,210 (£3,768) in 1913, 3,830 (£11,749) in 1921–22.

(New Zealand) : 90,639 (£147,041) in 1913, 182,032 (£241,399) in 1921-22.

(Pacific Islands) : 3,551 (£3,461) in 1913, 4,895 (£6,605) in 1921-22.

From Foreign Countries: 37,955 (£84,218) in 1913, 52,239 (£104,502) in 1921-22.

(Pacific Islands): 17,638 (£19,495) in 1913, 19,300 (£21,498) in 1921–22.

Portugal) : 12,227 (£38,352) in 1913, 8,264 (£35,284) in 1921–22. [Italy] : 6,250 (£20,577) in 1913, 8,551 (£32,978) in 1921–22.

Netherlands East Indies): 14,082 (£5,289) in 1921-22.

TABLE E 16

IMPORTS INTO AUSTRALIA OF HORSE-HIDES

Total Imports : 1,809 (\pounds 1,237) in 1913, 4,304 (\pounds 4,143) in 1921–22. From Empire Countries : 1,805 (\pounds 1,234) in 1913, 1,805 (\pounds 1,472) in 1921–22. New Zealand) : 1,748 (\pounds 1,066) in 1913, 1,694 (\pounds 1,284) in 1921–22. From Foreign Countries : $4(f_3)$ in 1913, 2,499 $(f_{2},671)$ in 1921–22. United States): 2,499 (£2,671) in 1921-22.

TABLE E 17

IMPORTS INTO AUSTRALIA OF TANNING BARK

Fotal Imports : 77,689 cwt. (£27,987) in 1913, 34,340 cwt. (£15,954) in 1921-22. From Empire Countries : 75,909 cwt. (£27,425) in 1913, 34,340 cwt. (£15,954) in 1921–22.

(South Africa): 75,411 cwt. (£27,243) in 1913, 32,540 cwt. (£15,450) in 1921-22. (Papua): 1,800 cwt. (£498) in 1921-22.

From Foreign Countries : 1,780 cwt. (£562) in 1913. (United States) : 1,115 cwt. (£316) in 1913.

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TABLE E 17a

EXPORTS FROM AUSTRALIA OF TANNING BARK

Total Exports : 17,520 cwt. (£12,200) in 1921–22. To Empire Countries : 16,700 cwt. (£11,666) in 1921–22. (*New Zealand*) : 16,700 cwt. (£11,665) in 1921–22.

To Foreign Countries : 820 cwt. $(\pounds 534)$ in 1921–22.

TABLE E 18

IMPORTS INTO AUSTRALIA OF TANNING EXTRACT (LIQUID AND SOLID)

Total Imports : 13,860 cwt. $(\pounds 22,042)$ in 1921–22. From Empire Countries : 6,200 $(\pounds 9,406)$ in 1921–22. (United Kingdom) : 4,740 cwt. $(\pounds 7,383)$ in 1921–22. (Straits Settlements) : 920 cwt. $(\pounds 1,194)$ in 1921–22.

From Foreign Countries : 7,660 cwt. $(f_{12},636)$ in 1921–22. (Argentine Republic) : 2,500 cwt. $(f_{3},970)$ in 1921–22. (Asia Minor) : 1,200 cwt. $(f_{7},764)$ in 1921–22. (United States) : 2,540 cwt. $(f_{5},569)$ in 1921–22.

TABLE E 19

VALUE OF OUTPUT, 1921-22.

	Value of Output.	Value of Material used.	Value added by process of manufacture.	Salaries and Wages paid	Output per em- ployee.	Added value per em- ployee.	Salaries and Wages per em- ployee,	Ratio per cent Salaries and Wages to added value.	Laud and Buildings.	Plant and Machinery
_	٤.,	≴ 3,684,000	£	£ 935,009	1,228	£	£		£	چ 581,008
Tanneries	5,451,596	3,684,000	1,767,596	935,009	1,228	398	219	52.90	721,699	581,008
Wool-scouring and fell-mongering .	6 600 170									
ien-mongering .	0,099,452	5,660,278	1,039,174	533,705	2,606	404	213	51.36	541,561	
Bark milling	129,587	104,088	25,499	6,820	1,080	212	бо	26 75	10,035	9,750
Boot and shoe										
factories	10,241,279	5,291,027	4,950,252	3,050,125	502	243	156	61.62	1,612,781	711,449
Furriers	367,537	207,490	160,047	60,495	667	286	120	37.80	100,875	10,482
Saddlery and harness	921,363	481,289	440,074	302,779	494	236	176	68.80	312,113	38,681
Leather belting,	9~~,505	401,209	440,074	302,119	494	230	1/0	00.00	312,113	30,001
gooda ata -		0	6 6.0		<i>c</i>					
goods, etc	I,453,540	812,902	640,638	327,062	602	265	143	51.05	310,904	76,251

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DEVELOPMENT	OF	TANNERIES	AND	Воот	FACTORIES	

				(000)					
			1911	1912	1913	1918–19	1919-20	1920-21	1921–22
Hides and calfskins, tre	ated		1,276	1,446	1,422	1,742	1,994	2,023	2,329
Sheep pelts, treated .			t	5,181	4,714	4,262	8,004	5,170	5,787
Other skins			t	- 486	290	1,067	1,171	884	1,027
Bark used (tons) .			27	27	25	28	32	27	31
Leather-made sole an	d belt	ing					U U		
kip, calf and other (£).		2,084	2,631	2,769	4,891	8,021	5,562	4,938
Basils (£) .			201	183	211	381	681	344	370
Boots and shoes made (pairs)		10,787	10,591	10,380	11,333	12,254	10,305	13,155
""",(<u>f</u> .)	•		3,558	3,664	3,835	6,147	9,453	7,337	8,664
Slippers (pairs) .			691	669	636	773	1,129	1,141	1,524
" (£) .	•	·	75	65	61	133	221	206	302
† Not available									

TABLE E 21

EXPORTS FROM AUSTRALIA OF LEATHER (INCLUDING SOLE LEATHER FOR 1921-22)

Total Exports : £628,293 in 1913, £684,784 in 1921-22. To Empire Countries : £567,958 in 1913, £541,812 in 1921-22. United Kingdom): £419,904 in 1913, £336,765 in 1921-22. Hong-Kong): £13,859 in 1913, £51,646 in 1921-22. India): £3,660 in 1913, £6,628 in 1921-22. New Zealand): £33,834 in 1913, £84,769 in 1921–22. Pacific Islands): £1,163 in 1913, £3,531 in 1921–22. Straits Settlements): £8,914 in 1913, £20,836 in 1921-22. Egypt): £3,972 in 1921-22. South Africa): £85,482 in 1913, £31,417 in 1921-22. 'o Foreign Countries : £60,335 in 1913, £142,972 in 1921-22. Belgium): £6,065 in 1913, £6,969 in 1921-22. China) : £11,506 in 1913, £22,074 in 1921–22. *tapan*): £1,882 in 1913, £1,274 in 1921-22. Vetherlands East Indies): £25,061 in 1913, £102,189 in 1921-22. Pacific Islands) : £1,742 in 1913, £1,471 in 1921-22. Siam): £2,544 in 1913, £2,474 in 1921-22. Inited States): £5,169 in 1913, £49 in 1921-22. Fermany): £3,584 in 1913. Portuguese East Africa): £2,023 in 1913.

TABLE E 21a

EXPORTS FROM AUSTRALIA OF SOLE LEATHER (1921-22 ONLY)

Total Exports : $\pounds 282,580$ in 1921-22. To Empire Countries : $\pounds 221,949$ in 1921-22. (United Kingdom) : $\pounds 152,638$ in 1921-22. (Hong-Kong) : $\pounds 44,270$ in 1921-22. (New Zealand) : $\pounds 20,949$ in 1921-22. (Pacific Islands) : $\pounds 1,057$ in 1921-22. (Straits Settlements) : $\pounds 2,098$ in 1921-22.

To Foreign Countries : $\pounds 60,631$ in 1921–22. (Belgium) : $\pounds 3,474$ in 1921–22. (Chuna) : $\pounds 20,381$ in 1921–22. (Netherlands East Indies) : $\pounds 33,356$ in 1921–22. (Netherlands) : $\pounds 1,826$ in 1921–22.

TABLE E 22

IMPORTS INTO AUSTRALIA OF GREEN-HIDE LEATHER

Total Imports : \pounds_{580} in 1913, \pounds_{558} in 1921-22. From Empire Countries : \pounds_{507} in 1913, \pounds_{175} in 1921-22. (United Kingdom) : \pounds_{506} in 1913, \pounds_{175} in 1921-22.

From Foreign Countries : £73 in 1913, £383 in 1921-22. (United States) : £73 in 1913, £383 in 1921-22.

TABLE E 23

IMPORTS INTO AUSTRALIA OF CRUST OR ROUGH-TANNED GOATSKINS, PERSIAN SHEEPSKINS AND SKIVERS, CHAMOIS LEATHER

Total Imports : $\pounds_{20,905}$ in 1913, $\pounds_{31,056}$ in 1921. From Empire Countries : $\pounds_{15,714}$ in 1913, $\pounds_{28,269}$ in 1921-22. (United Kingdom) : $\pounds_{12,140}$ in 1913, $\pounds_{16,754}$ in 1921-22. (India) : $\pounds_{1,401}$ in 1913, \pounds_{550} in 1921-22. (New Zealand) : $\pounds_{2,022}$ in 1913, $\pounds_{10,593}$ in 1921-22. From Foreign Countries : $\pounds_{5,191}$ in 1913, $\pounds_{2,787}$ in 1921-22.

(United States): £1,470 in 1913, £2,387 in 1921-22. (Germany): £3,194 in 1913.

IMPORTS INTO AUSTRALIA OF PATENT AND ENAMELLED LEATHER

Total Imports : 2,062,440 sq. ft. (£120,114) in 1913, 1,155,147 sq. ft. (£101,880) in 1921-22.

From Empire Countries : 116,579 sq. ft. (£7,182) in 1913, 13,713 sq. ft. (£1,221) in 1921-22.

(United Kingdom): 116,579 sq. ft. (£7,182) in 1913, 5,033 sq. ft. (£271) in 1921-22.

(Canada): 8,236 sq. ft. (£919) in 1921-22.

From Foreign countries : 1,945,861 sq. ft. (£112,932) in 1913, 1,141,434 sq. ft. (£100,659) in 1921-22.

(Germany): 706,726 sq. ft. (£43,061) in 1913.

(United States): 1,235,589 sq. ft. (£69,670) in 1913, 1,136,534 sq. ft. (£100,037) in 1921-22.

TABLE E 25

Imports into Australia of Calf Leather, other than Patent and Enamelled

Total Imports : £29,381 in 1913, £19,764 in 1921–22. From Empire Countries : £2,194 in 1913, £2,818 in 1921–22. (United Kingdom) : £2,169 in 1913, £1,164 in 1921–22.

From Foreign Countries : £27,187 in 1913, £16,946 in 1921–22. (United States) : £9,208 in 1913, £16,324 in 1921–22. (Germany) : £16,791 in 1913.

TABLE E 26

IMPORTS INTO AUSTRALIA OF LEATHER NOT OTHERWISE SPECIFIED, INCLUDING KID LEATHER

Total Imports : $\pounds 272,591$ in 1913, $\pounds 118,761$ in 1921–22. From Empire Countries : $\pounds 41,977$ in 1913, $\pounds 43,860$ in 1921–22. (United Kingdom) : $\pounds 40,574$ in 1913, $\pounds 16,804$ in 1921–22.

From Foreign Countries: $\pounds 230,614$ in 1913, $\pounds 74,901$ in 1921–22. (France): $\pounds 13,166$ in 1913, $\pounds 10,600$ in 1921–22. (United States): $\pounds 196,554$ in 1913, $\pounds 63,709$ in 1921–22. (Germany): $\pounds 18,143$ in 1913. (Persia): $\pounds 1,994$ in 1913.

IMPORTS INTO AUSTRALIA OF LEATHER BELTING BUTTS

Total Imports : £5,226 in 1913, £66 in 1921–22. From Empire Countries : £5,186 in 1913, £66 in 1921–22. (United Kingdom): £5,186 in 1913, £66 in 1921-22. From Foreign Countries : £40 in 1913.

TABLE E 28

IMPORTS INTO AUSTRALIA OF BOOTS, SHOES, SLIPPERS, CLOGS, PATTENS, AND ANY OTHER FOOTWEAR OF ANY MATERIAL

Total Imports : $\pounds_{484,239}$ in 1913, $\pounds_{82,194}$ in 1921–22. From Empire Countries : $\pounds_{350,288}$ in 1913, $\pounds_{58,253}$ in 1921–22.

(United Kingdom): £349,951 in 1913, £40,416 in 1921-22.

From Foreign Countries : £133,451 in 1913, £23,941 in 1921-22.

(Czecho-Slovakia) : £24,770 in 1913, £3,176 in 1921–22. (Belgium) : £1,068 in 1913, £1,699 in 1921–22.

(China): £6,053 in 1913, £682 in 1921-22.

(France) : $f_{12,447}$ in 1913. (Switzerland) : $f_{19,639}$ in 1913, $f_{1,141}$ in 1921–22.

(United States) : £68,664 in 1913, £15,423 in 1921-22.

TABLE E 29

EXPORTS FROM AUSTRALIA OF LEATHER BOOTS, SHOES, AND SLIPPERS

Total Exports : £14,334 in 1913, £103,541 in 1921-22.

To Empire Countries : £8,760 in 1913, £88,680 in 1921-22.

(New Zealand): £1,124 in 1913, £65,005 in 1921-22.

(Pacific Islands): £4,823 in 1913, £15,129 in 1921–22. (Straits Settlements): £2,540 in 1921–22.

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(South Africa): £1,427 in 1921-22.

To Foreign Countries : £5,574 in 1913, £14,861 in 1921-22. (Pacific Islands): £5,090 in 1913, £7,306 in 1921-22. (Netherlands East Indies) : £7,415 in 1921-22.

TABLE E 30

IMPORTS INTO AUSTRALIA OF LEATHER BELTING

Total Imports : £31,946 in 1913, £8,976 in 1921-22. From Empire Countries : £26,659 in 1913, £6,455 in 1921-22. (United Kingdom): £26,619 in 1913, £5,886 in 1921-22.

AUSTRALIA

From Foreign Countries : $\pounds 5,287$ in 1913, $\pounds 2,521$ in 1921–22. (United States) : $\pounds 3,726$ in 1913, $\pounds 2,462$ in 1921–22. (Germany) : $\pounds 1,302$ in 1913.

TABLE E 31

IMPORTS INTO AUSTRALIA OF BELTING (CANVAS AND COMPOSITION)

Total Imports : $\pounds77,215$ in 1913, $\pounds61,740$ in 1921–22. From Empire Countries : $\pounds67,460$ in 1913, $\pounds54,568$ in 1921–22. (United Kingdom) : $\pounds67,460$ in 1913, $\pounds51,933$ in 1921–22. (Canada) : $\pounds2,545$ in 1921–22.

From Foreign Countries : $\pounds 9,755$ in 1913, $\pounds 7,172$ in 1921–22. (Germany) : $\pounds 1,323$ in 1913. (United States) : $\pounds 8,427$ in 1913, $\pounds 7,151$ in 1921–22.

TABLE E 32

EXPORTS FROM AUSTRALIA OF LEATHER BELTING

Total Exports : $\pounds 6,380$ in 1913, $\pounds 12,010$ in 1921-22. To Empire Countries : $\pounds 2,210$ in 1913, $\pounds 8,652$ in 1921-22. (*India*) : $\pounds 210$ in 1913, $\pounds 154$ in 1921-22. (*New Zealand*) : $\pounds 723$ in 1913, $\pounds 4,210$ in 1921-22. (*Pactric Islands*) : $\pounds 1,082$ in 1913, $\pounds 2,644$ in 1921-22.

To Foreign Countries: $\pounds_{4,170}$ in 1913, $\pounds_{3,358}$ in 1921–22. (Japan): $\pounds_{2,982}$ in 1913. (*Philippine Islands*): $\pounds_{1,014}$ in 1913. (*Netherlands East Indies*): $\pounds_{2,051}$ in 1921–22.

TABLE E 33

IMPORTS INTO AUSTRALIA OF LEATHER MANUFACTURES, LEATHER CUT INTO SHAPE, HARNESS, RAZOR STROPS, AND WHIPS

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Total Imports : £55,916 in 1913, £73,539 in 1921-22. From Empire Countries : £40,034 in 1913, £67,869 in 1921-22. (United Kingdom) : £39,461 in 1913, £66,239 in 1921-22. From Foreign Countries : £15,882 in 1913, £5,670 in 1921-22. (France) : £838 in 1913, £547 in 1921-22. (Italy) : £1,020 in 1913, £324 in 1921-22. (United States) : £10,005 in 1913, £4,580 in 1921-22. (Germany) : £3,896 in 1913.

EXPORTS FROM AUSTRALIA OF LEATHER MANUFACTURES

Total Exports : $\pounds_{12,442}$ in 1913, $\pounds_{22,199}$ in 1921–22. To Empire Countries : $\pounds_{7,414}$ in 1913, $\pounds_{18,457}$ in 1921–22. (New Zealand) : $\pounds_{3,347}$ in 1913, $\pounds_{8,081}$ in 1921–22. (Pacific Islands) : $\pounds_{2,433}$ in 1913, $\pounds_{6,343}$ in 1921–22. (South Africa) : $\pounds_{1,203}$ in 1921–22.

To Foreign Countries : £5,018 in 1913, £3,742 in 1921–22. (Pacific Islands) : £4,573 in 1913, £1,746 in 1921–22. (Netherlands East Indies) : £1,701 in 1921–22.

APPENDIX

TARIFF REGULATIONS RELATING TO IMPORTATION OF HIDES, SKINS AND LEATHER

Tarıff No		British Preferential Tariff,	Inter- mediate Tariff	General Tarıff
323	Hides and skins, viz. :			
5.5	(a) Sheepskins, raw; goatskins, raw or pickled .	Free	Free	Free
	(b) Hides, limed or fleshed or split per hide .	38.	38.	3s.
324	Leather, viz. :	-	•	•
3-4	(a) Chamois leather	20%	25%	30%
	(b) Crust or rough-tanned goatskins, Persian sheep-	40 /0	-370	3070
	skins and skivers; hogskins . ad. val.	10,,	10 ,,	10 ,,
	(c) (1) Patent and enamelled, per sq. ft.	3d.	4d.	6d.
	or ad. val.	25%	30%	35%
	whichever rate returns the higher duty.	-570	3-70	3370
	(2) Glacé kid, per sq. ft.	od.	IId.	IS.
	(1) or ad, val.	25%	30%	35%
	whichever rate returns the higher duty.	570	5 /0	5570
	(3) Calf, other than patent and enamelled, ad. val.	25 ,,	30 ,,	35 ,,
	(4) N.E.I	25 ,,	30,,	35 ,,
	(d) Belt butts	25,,	30,,	35 ,,
325	(a) Leather manufactures, n.e.i., leather cut into	2.11	0	00 //
343	shape; harness, n.e.i., razor strops, whips, in-			
	cluding handles, keepers, etc. ad. val.	35 ,,	40 ,,	45
	(b) Harness and buggy saddles, each	33 " 78.	7s. 6d.	45 ,, 8s.
	or ad. val.	35%	40%	45%
	whichever rate returns the higher duty.	3570	40 /0	43 /0
0.06	0			
326	Leather, rubber, canvas and composition belting, and			10
	green hide for felting and other purposes ad. val. Mangrove bark	30 ,, Free	35 ,, Free	40 ,, Errar
	Other bark, per cwt.			Free
	Tanning extract	3s. Free	3s.	38.
	Slipper forms and piece goods (except slipper sole	Pice	15%	25%
	felt), suitable for boots, shoes, and slippers as			
	prescribed by departmental by-laws ad. val.	Free	-	T r
	C11	20%	5 ,,	15,,
	Goloshes, rubber, sand boots and shoes and plimsolls	20 /0	25 ,,	35 ,,
	ad. val.	25	20	25
	or per pair	25 ,, 1s. 6d.	30 ,, 1s. qd.	35 ,,
	whichever gives the higher duty.	15. Uu.	15. yu.	28.
	Boots, shoes, slippers, clogs, pattens and other foot-		1	
	wear (of any material), n.e.i., boot and shoe	\$.		
	uppers and tops, cork, leather, or other socks or	-		
	soles, n.e.i	35%	40%	45%
	(N.E.I. denotes " not elsewhere incl		 70	70 CF
				1
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SECTION F NEW ZEALAND

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SECTION F

NEW ZEALAND

NEW ZEALAND'S best-known contribution to the leather industry lies in her supplies of sheepskins. She has, however, a substantial tanning industry of her own, and in addition exports hides to considerable value.

A summary of her exports is given in Table F 1, from which the following figures have been taken to illustrate the magnitude of her export trade in various articles :—

						1913 £(000)	1921 £(000)
Calfskins						50	145
Cattle hid		•			•	262	43 ^I
Woolled s	heeps	kins	•	•	•	223	15
Pickled	,,	•	•	•	•	577	957
Leather	•	·	·	•	·	33	96
						1,145	1,644

The value of the hides, skins, etc., used in New Zealand tanneries is estimated at £270,000 in 1913 and £400,000 in 1921. The total contribution, accordingly, of New Zealand in raw materials for the tanning industry was approximately £1,400,000 in 1913 and £1,950,000 in 1921. The position of New Zealand in comparison with other Empire countries in this respect has been referred to in Section A. The most convenient order for reviewing the facts will be : (i) sheep- and lambskins; (ii) hides and calfskins; (iii) leather, and (iv) leather goods.

SHEEP AND LAMBSKINS

The Stock Act of 1908 (No. 187) requires that every owner of sheep shall nake a return each year of the number of sheep in his possession on April 30th. Also that every person who slaughters sheep for human consumption or for soiling down, or for meat preserving, shall provide particulars of the number of sheep slaughtered in the twelve months previous to 30th April. The growth n the numbers of sheep and lambs in New Zealand in the past fifty years has been is follows :---

1871					•	9,700,000
1881						12,985,000
1891						18,128,000
1901						19,355,000
1911						23,996,000
1921	· .			۰.		22,222,000
			0.5.5			

Details of the sheep statistics for 1921 are given in Table F 2. The difference between the pre-War and post-War numbers of sheep and lambs—1,774,000 or over 7 per cent—was less than the corresponding falling off in sheep in Great Britain (20 per cent) and in Australia (3 per cent).

The figures of sheep and lambs slaughtered for food purposes throughout the island were as follows :---

			Sheep.	Lambs.	Total.
1913 .			3,307,000	3,506,000	6,813,000
1922 .	•	•	4,127,000	5,085,000	9,212,000

In spite of the substantial decrease in the flocks the slaughtering increased considerably between 1913 and 1922. There is a well-marked differentiation in the sheepskin trade between the North Island and the South Island sheep. Both classes of sheep are crossbred, and their pelts are accordingly of a superior quality. The North Island pelt, however, is considerably heavier than that from the South Island, and is used for different purposes.

The annual killings of the New Zealand freezing companies show a great difference in proportion of sheep and lambs slaughtered in the two islands, the figures for 1913 and 1922 being as follows :—

				Sheer	(000)		Lamb		Grand Total,	
				N. Island,		Total.	N. Island.	S. Island.	Total.	(000)
1913			•	1,793	465		1,455	2,395	3,849	6,108
1922	•	•	•	2,209	499	2,708	2,047	2,405	4,452	7,160

The number of sheep and lambs in the North Island in 1922 was 12,000,000 and in the South Island 10,000,000.

The practice in the South Island is to kill considerably more lambs than in the North.

The New Zealand skins used in Great Britain are mainly North Island sheep and lambs, the former being in demand by splitters and the latter being required for the manufacture of roller leather for use in cotton mills. In some years the consumption of these lambskins for roller leather has approached 500,000 skins, the actual numbers used varying according to the supplies of suitable domestic pelts in Great Britain.

The South Island sheep and lambs and the remainder of the North Island production are put to many purposes, substantial quantities being used for light upper leather. Considerable quantities were used for jerkin leather during the War, though the quality of the skin was considered by many judges to be too good for this purpose.

Details of the exports of woolled skins are given in Table F 3 and of pickled skins in Table F 4. Ninety-eight per cent of the woolled skins went to Empire countries (most to the United Kingdom, but an appreciable number to Canada) in 1913 and 94 per cent in 1922. At times, too, many of the skins, after fellmongering, are exported from Great Britain as pickled pelts, but no statistics of this trade are available, the official figures of the British Customs including domestic skins and New Zealand skins together. The re-exports from Great Britain, both of the woolled skins and those fellmongered here, are mainly to United States.

The exports of the pickled skins are of much greater volume, and, as shown by Table F 4, large quantities go direct to the United States, and this trade has shown a great increase since 1913. In that year 1,640,000 pickled skins were exported direct to the United States, but by 1922 this figure had increased to 5,340,000. In the same period the direct shipments to Great Britain decreased from 5,440,000 to 3,200,000. A considerable quantity, too, of the pickled skins coming here are subsequently re-exported, mainly to the United States.

Australia and Canada are also becoming substantial users of New Zealand pickled pelts, Australia's takings increasing from 105,000 in 1913 to 715,000 in 1922, while those of Canada (direct) increased from 47,000 in 1913 to 242,000 in 1922. Altogether direct exports to Empire countries decreased from 77 per cent in 1913 to 44 per cent in 1922. There is, also, a comparatively small import of skins and pelts (see Table F 21 and 22).

The number of sheep and lamb pelts tanned in Australia has been roughly computed at 350,000. It would appear, however, from the particulars of output of basils referred to in Table F 9 (viz. 296,000 lb. in fiscal year 1921-22) that this is on the high side, and a more conservative estimate would be between 250,000 and 300,000.

HIDES AND CALFSKINS

The numbers of cattle (including calves) and horses at various dates over the past fifty years have been as follows :---

				Cattle	Horses.
1871				437,000	81,000
1881	•			699,000	162,000
1891		•		832,000	211,000
1901	•	•	•	1,257,000	266,000
1911	•	•	•	2,020,000	404,000
1921	•	•		3,323,000	332,000

Details of the cattle in 1922 are shown in Table F 5. The numbers of cattle (including calves) slaughtered in 1913, 1921, and 1922 (including about 10,000 per year by farmers for local consumption) were :—

1913 .	•	-	•			270,000
1921 .	•	•			•	377,000
1922 .	•	•	•	•	•	272,000

The total number of cattle hides exported in the three years were (not including calfskins and horse-hides) 169,000, 339,000, and 258,000 respectively. Even allowing for casualty hides, these figures hardly appear consistent with those slaughtered and the existence of a home tanning industry using 3,000 tons of bark per year. It is not clear if the figures of slaughter of cattle include those killed in the freezing and preserving works (in the case of sheep these figures are included). The Census of Production results, to be referred to later, are published in such manner that it is not possible to deduce from them the

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numbers of hides and skins used in tanneries, and the position regarding consumption of hides and calfskins in New Zealand tanneries must of necessity be left rather vague.

The branding of hides is controlled in New Zealand under the Stock Act of 1908 (No. 187) Part V.

Anthrax is practically unknown in the Dominion, and it is said to be many years since the last slight outbreak of the disease. According to Order in Council of 1903, anthrax (known in New Zealand as "Blackleg") is subject to the regulations of the Stock Act of 1803. Further regulations were issued under the Stock Act of 1908, under which all cattle within an infected area have to be vaccinated, while removal of cattle from an infected area is restricted.

The importation of hides into New Zealand is strictly regulated, and different regulations apply to hides from Australia from those applicable to other countries.

The exports of hides (shown in detail in Table F 6) were almost entirely to the Empire—95 per cent in 1913 and 87 per cent in 1922. A comparatively small proportion of these hides comes to Great Britain, Australia taking most and Canada also a substantial quantity. The post-War figure to Australia shows a considerable increase on the pre-War figure, and in view of the probable diminution in Australia's cattle industry, she is likely to call to a greater extent still on New Zealand for hides to maintain the output of her tanneries. There is also an appreciable import of hides from many countries (Table F 23).

The raw calfskin trade of New Zealand has developed mainly into trade with Australia. In 1913 Australia took only 36,000 skins out of a total export of 179,000, but in 1922 she took no fewer than 363,000 skins of a total of 505,000. This increase can be accounted for by the development which has occurred in the production of calf upper leather in Australia under the stimulus of a protective import tariff. Canada also takes substantial quantities of New Zealand's calfskins—in 1921 and 1922 about as many as the United States. Comparatively few, however, came to this country.

The only general fact on the tanning industry which need be mentioned before passing on to deal with the statistics is that tanning is (together with fellmongering and glue manufacturing) under Section 54 of the Health Act of 1920 scheduled as an offensive trade, and the industry cannot be established in any district except with the consent of the local authority.

LEATHER

The New Zealand official figures of production do not give separate particulars for the tanning industry, but include these with "Fellmongering" and "Woolscouring." This fact is indicative of the general attitude taken on the tanning industry, not only in that country but also in Australia, as an adjunct to the production of hides and skins rather than as a manufacturing industry in itself. The view is that as the hides and skins are produced it would be folly not to develop on the spot those industries which consume this raw material. This view has not, however, been developed in New Zealand

to the extent it has in Australia. Table F 8 gives particulars from the censuses of 1910 and 1922 of the establishments, employees, materials used, products, etc., of the tanning, fellmongering, and woolscouring industries. This table shows substantial increases in wages paid, value of plant, and in other items, but records an apparent decrease in value of materials used and of products. This is no doubt partly due to the fact that 1922 was a "slump" year, but it is probable also that the figures for the two years are not properly comparable. More satisfactory information for a comparison of the tanning industry in 1910 with 1921-22 is contained in Table F 9, in which particulars are given of materials used and of products. This table shows that the "sheepskins operated on "-presumably the sheepskins fellmongered-were 4,400,000 in 1910 and only 2,700,000 in 1921-22. As the exports of pickled pelts were 9,500,000 in 1922 and 8,400,000 in 1921, it is clear that the production figures are defective. If, however, the number of sheep and lambs slaughtered at the freezing works (7,160,000) is added to the figure of "sheepskins operated on " and allowance made for a home consumption of about 300,000 skins, a satisfactory comparison is obtainable. No similar explanation can be given, however, for the apparent decrease in the number of "hides and pelts operated on," which decreased from 2,800,000 in 1910 to 800,000 in 1921-22. There is no ambiguity, however, about the significance of the figures for bark used, as this is used in tanneries only, the whole of which are included in the table. The quantity of bark used was 3,160 tons in 1910 but only 2,950 tons in 1921–22. The decrease in native bark used shows a similar phenomena to that in Australia. Table F 24 shows that the bark came almost entirely from Australia. While New Zealand draws her bark from Australia, the latter country is now dependent upon South Africa (see Table E 17 of the Australian section). The Census of Production gives no information of other materials used except bark, but Table F 25 shows that tanning materials other than bark to the value of £6,500 in 1913 and £25,000 in 1922 were imported. The total value of the tanning materials used in 1913 was accordingly about £36,000 and in 1921-22 about £83,000. The former figure was about 21 per cent of the corresponding consumption in the United Kingdom (see Table B 21 of Section B) and the latter $4\frac{1}{2}$ per cent.

The quantity of leather produced (presumably from hides) according to Table F 9 was about 2,130 tons in 1910 and 2,060 tons in 1921–22, the values being $\pounds_{326,000}$ and $\pounds_{521,000}$ respectively. In addition, basils weighing 106 tons, of value $\pounds_{14,300}$ in 1910 and 132 tons, of value $\pounds_{56,700}$ in 1921–22 were produced.

In proportion to her production New Zealand is both an exporter and an importer of leather on a substantial scale. There is a tax on importation of many classes of leather and of leather goods, particulars of which are included in the Appendix on page 276. Exports of sole leather are shown in Table F 10, being almost entirely to the United Kingdom, and amounting to about £30,000 per annum in 1921 and 1922. Imports of sole leather are on a larger scale. Particulars of these are given in Table F 26, and amounted to £82,000 in 1921 and £143,000 in 1922, mostly from the United Kingdom and Australia.

There is a very small export trade in leather for belting (see Table F 11), but this cannot be exactly compared with the corresponding imports, as the latter are grouped with other forms of leather in the import statistics (see (Table F 27).

In 1921 there was a substantial export of rough-tanned calfskins, almost entirely to the United Kingdom (see Table F 12), but this trade almost disappeared in 1922. On the other hand, the import of rough-tanned calfskins increased from $\pounds 19,000$ in 1921 to $\pounds 43,000$ in 1922 (see Table F 28), these coming from Australia, the United Kingdom, and the United States.

A little rough-tanned hide leather was exported in 1921, but none in 1922 (see Table F 13), while the imports of this class of leather are also quite small (see Table F 29).

Table F 14 shows the imports of tanned goat- and kidskins (presumably rough-tanned as well as dressed skins). These exports are small compared with the corresponding imports (Table F 30), which increased from £35,000 in 1921 to £64,000 in 1922, these imports (probably manly glacé kid upper leather) coming from Australia, the United Kingdom, and the United States. There was, up to the end of 1923, a general import duty of 10 per cent *ad valorem* on the importation of glacé and suède leathers, but this was completely remitted in the case of imports from other parts of the Empire. This preference was, however, abolished as from the beginning of 1924, but may, by Order in Council, be re-established, and representations on this subject have been made by the relevant organisations, both in Australia and the United Kingdom.

The corresponding exports of tanned sheepskins and lambskins are also small (Table F 15); the imports of these were about £11,000 in 1921 and in 1922, almost entirely from Australia (see Table F 31).

Exports of dressed hide leather (Table F 16) amounted to £24,000 in 1921 and £12,000 in 1922, practically all to the United Kingdom. The corresponding imports are divided into two heads, (a) dressed East India kips (Table F 32), and (b) other dressed hide leather (Table F 33). The former is imported entirely from the United Kingdom and amounted to £4,700 in 1921 and £1,500 in 1922. The latter comes mainly from Australia and the United Kingdom, and amounted to over £18,000 both in 1921 and 1922.

In 1921 there was an export of $\pounds 6,000$ of japanned and enamelled leather to the United Kingdom, but apart from this the exports of this leather have amounted to a few pounds' worth only to Australia and various Pacific Islands (Table F 17). The imports, however, are substantial, amounting to $\pounds 21,000$ in 1921 and $\pounds 37,000$ in 1922, the United States being the chief supplier, followed in order by Australia, Canada, and the United Kingdom (see Table F 34).

The only other form of leather specified in the returns is chamois leather. In 1921 and 1922 there was an export of about £6,000, almost entirely to Australia (Table F 18), and an import of £3,000 in 1921 and £2,000 in 1922 from the United Kingdom and the United States (Table F 35).

Table F 36 shows an import of $\pounds_{4,300}$ in 1921 and $\pounds_{12,400}$ in 1922 of leather not otherwise specified, chiefly from Australia and the United Kingdom, but there is no corresponding table in the import returns.

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				£
1913		•		206,000
1921				205,000
1922	•		•	328,000

Over 80 per cent of these imports came from other Empire countries, the proportions of the four chief suppliers being as follows in the various years :--

		1913 Per cent	1921 Per cent	1922 Per cent.
United Kingdom	•	58	38	54
Australia	•	19	44	20
Canada		4	3	4
United States .		12	14	19

On the whole the proportions in 1922 were not widely different from those of 1913, though a different conclusion would have been drawn from the 1921 igures.

Combining the figures of exports and of imports there would appear to be an excess of imports in the three years as follows :---

				た
1913				173,000
1921		•	•	109,000
1922				282,000

Averaging the 1921 and 1922 figures, and combining with the figures of proluction stated above, the pre-War consumption is seen to be about £510,000, nd the post-War consumption about £770,000.

LEATHER GOODS

Table F 8 gives various particulars of manufactures for (a) boot and shoe naking, (b) saddlery and harness making, and (c) leather goods making.

BOOTS AND SHOES

The number of boot manufacturing establishments is just over 70, employ-1g 2,070 employees in 1910 and 2,330 in 1922, the wage roll increasing from 198,000 to £380,000 in this period. The value of the materials used nearly oubled—£335,000 to £647,000—while the value of the products more than oubled—£620,000 to £1,310,000. Table F 37 gives a good deal of interesting information about the industry. So far as leather sold by the pound is concerned (practically all sole leather) the amount of imported leather used was small (6 per cent in 1910, but 15 per cent in 1921–22). In 1910, however, more than 55 per cent of the upper leather used was imported, a proportion which has fallen to less than 40 per cent in 1921 and 1922. It appears from these figures that the native upper leather industry made considerable headway in the period in question, but the sole leather receded in comparison to the imports. The number of pairs of boots and shoes (excluding slippers) made was 1,320,000 pairs in 1910 and 1,330,000 pairs in 1921–22, but the value more than doubled.

No particulars are available of any exports of boots, but the imports are given in Tables F 38 and 39, the former dealing with boots of sizes 0 to 6, and the latter with all other boots. The total number of pairs imported was 1,650,000 in 1913 and 1,040,000 for the average of 1921–22. Thus the pre-War import was about 300,000 pairs in excess of the production, but the post-War import was about 300,000 pairs less. Before the War the imports came almost entirely from the United Kingdom. In 1921, however, there was a considerable import from Australia, which fell away in 1922, when the United Kingdom regained her position in the New Zealand market, a position which was strengthened in 1923.

SADDLERY AND HARNESS

The particulars given in Table F 8 show that the number of establishments manufacturing harness and saddlery fell from 117 to 73 between 1910 and 1922, the number of employees falling at the same time from 594 to 391. The materials used in the industry in 1922 were valued at $\pounds_{131,000}$ and the value of the output was $\pounds_{228,000}$. The variety of forms of production under this head render it impossible to give details of the output. No particulars are available of any exports of saddlery and harness, but imports to the value of $\pounds_{27,000}$ were received in 1921 and $\pounds_{9,000}$ in 1922, almost entirely from England (see Table F 40).

LEATHER GOODS MAKING

Table F 8 also includes a few particulars of leather goods manufacture. The number of establishments engaged in this work increased from 6 to 16 between 1910 and 1922, while the number of employees increased from 39 to 164. The materials used in 1922 were valued at $\pounds_{51,000}$ and the output at $\pounds_{98,000}$. Under this heading is presumably included the manufacture of leather belting. There is a very small export trade in this (Table F 20), but a much bigger import trade, $\pounds_{4,700}$ in 1913, $\pounds_{16,100}$ in 1921, and $\pounds_{10,900}$ in 1922, divided between the United Kingdom, Australia, Canada, and the United States (Table F 41). The import of machinery belting manufactured from materials other than leather was on a much bigger scale, being valued at $\pounds_{40,000}$ in 1913, $\pounds_{93,000}$ in 1921, and $\pounds_{52,000}$ in 1922 (Table F 42). Under the heading of leather goods has to be mentioned a small import of bags under 10 inches long (Table F 43), and an import of $\pounds_{11,000}$ in 1921 and

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£5,000 in 1922 of portmanteaux and trunks (Table F 44). Finally, in Table F 45, a summary, by weight and by value, of the imports of leather and leather goods (other than boots) for each of the three years is given.

The position regarding imports of leather and leather goods in the three years may be summarised as follows :---

Country.				1913 £(000)	1921 £(000)	1922 £(000)
United Kingdon	m			487	262	704
Australia .				42	246	90
Canada .	•	•	•	i3	.9	46
					Real Property and	
Whole Empire	•	•	•	542	517	840
					-	
United States	٠	•	•	36	64	104
All Foreign Co	untr	ies	•	52	67	109
					No. of Concession, Name	
Total	٠	•	•	594	584	949

The comparison of the figures for 1921 and 1922 is very striking. In 1913, 80 per cent of the imports came from the United Kingdom; on the 1921figures, however, this country appeared to have lost its position, and was responsible for 45 per cent only of the imports. In 1922 the percentage from the United Kingdom recovered to 74, and, on the whole, this country appears to be holding its own for leather and leather goods in New Zealand.

LEATHER, HIDES, AND SKINS

TABLE F 1

Comparative Values of Exports of Hides, Skins, Furs and Leather to Various Countries, 1913 and 1921

£(000)

	United Kingdom Au		Aust	Australia. Canada		ada	Whole Empire.		United States		All Foreign Countries.		Total.	
	1913	1921	1913	1919	1913	1921	1913	1921	1913	1921	1913	1921	1913	1921
Calfskins Cattle hides	10	1 82	9	35 260	29	52	48	88	2	56	2	56 29	50 262	145
Sheepskins, woolled	15 182	10	139 1		93 33	60 2	247 217	402 12	15 7	29 3	15 7	3	223	431
Pickled sheepskins . Rabbit-skins .	411 86	368 247	8 1	12 6	_4	44 7	423 87	424 260	154	533 188	154 	533 188	577 87	957 448
Leather	31	84 	2	9			33	93		3		3	33	96
Total	735	792	160	322	159	165	1,055	1,279	178	812	178	812	1,232	2,092

TABLE F 2

SHEEP: NUMBERS AND SLAUGHTERINGS

				Nu	mber of Sheep and	Lambs.	
Year.				North Island	South Island	Total.	Lambs only
1912				12,618,089	11,132,064	23,750,153	
1913	•		•	13,145,445	11,046,365	24,191,810	
1919	•	•	•	14,211,944	11,616,610	25,828,554	7,431,321
1920				13,166,750	10,753,220	23,919,970	6,317,738
1921	•	•	•	12,774,323	10,510,708	23,285,031	5,834,481

TABLE F 3

EXPORTS OF SHEEPSKINS WITH WOOL

- Total Exports : 933,152 skins (£223,362) in 1913, 645,002 skins (£124,229) in 1922.
- To Empire Countries : 910,661 skins (£216,528) in 1913, 607,080 skins (£113,848) in 1922.
- (United Kingdom): 774,343 skins (£182,228) in 1913, 566,556 skins (£104,797) in 1922.
- (Canada): 132,483 skins (£33,294) in 1913, 35,084 skins (£8,523) in 1922.
- To Foreign Countries : 22,491 skins (£6,834) in 1913, 37,922 skins (£10,381) in 1922.

(United States): 22,491 skins (£6,834) in 1913, 36,877 skins (£10,268) in 1922.

EXPORTS OF SHEEPSKINS WITHOUT WOOL

- Total Exports: 7,238,123 skins (£576,992) in 1913, 9,499 skins (£855,960) in 1022.
- To Empire Countries: 5,592,023 skins (£423,136) in 1913, 4,160,290 skins (£369,372) in 1922.
- (United Kingdom): 5,439,219 skins (£410,853) in 1913, 3,203,247 skins (£294,137) in 1022.

(Australia): 105,347 skins (£8,261) in 1913, 715,447 skins (£55,911) in 1922. (Canada): 47,457 skins (f,4,022) in 1913, 241,596 skins (f,19,324) in 1922.

To Foreign Countries: 1,646,100 skins (£153,856) in 1913, 5,339,561 skins $(f_{4}86, 588)$ in 1922.

(United States): 1,644,761 skins (£153,753) in 1913, 5,339,349 skins (£486,554) in 1922.

TABLE F 5

PARTICULARS OF CATTLE

	PARTICI	JLARS OF	CATTLE					
						on 3		of Caitle anuary, 1922.
Bulls two years old and over for	stud-fo	r beef pui	poses					14,152
23 23	,, fo	r dairy pu	irposes					44,028
Steers two years old and over 1								540,742
,, and bulls one and under	two years	sold.						207,647
Cows and heifers two years old	and over	for dairy	ıng—in r	nılk			-	998,400
** **	,,	,,	dıy					118,428
Other cows and heifers, two ye	ars old an	d over .	•					474,090
Heifers one and under two year	rs old .							371,850
Calves (heifer, steer, and bull)	under one	year old						520,610
22 22 22 22	» »	,	in borou	ghs,	etc.	·	·	33,276
							3	,323,223

¹ Including bulls not kept for stud purposes.

TABLE F 6

EXPORTS OF HIDES, CATTLE AND HORSE

Total Exports : 169,333 skins (£261,744) in 1913, 258,440 skins¹ (£358,426) in 1922.

- To Empire Countries: 160,011 skins (£246,749) in 1913, 224,621 skins $(f_{30}^{0}8,971)$ in 1922.
- (United Kingdom): 8,962 skins (f,14,577) in 1913, 25,964 skins (f,31,730) in 1922.

¹ In 1922, of the total of 258,440 only 973 were horse-hides of value £407, which were exported to Australia

(Australia): 90,853 skins (£138,720) in 1913, 148,938 skins (£200,090) in 1922. (Canada): 60,196 skins (£93,452) in 1913, 49,719 skins (£77,151) in 1922.

To Foreign Countries : 9,322 skins (£14,995) in 1913, 33,819 skins (£49,455) in 1922.

(United States): 9,318 skins (£14,988) in 1913, 33,819 skins (£49,455) in 1922.

TABLE F 7

EXPORTS OF CALFSKINS AND OPOSSUM SKINS

- Total Exports : 179,461 skins (£50,521) in 1913, 504,566 skins (£166,533) in 1922.
- To Empire Countries : 170,903 skins (£48,380) in 1913, 443,414 skins (£146,551) in 1922.
- (United Kingdom): 42,210 skins (£10,185) in 1913, 29,519 skins (£12,273) in 1922.

(Australia): 35,928 skins (£9,114) in 1913, 362,860 skins (£119,397) in 1922.

(Canada): 92,765 skins (£29,081) in 1913, 51,035 skins (£14,881) in 1922.

To Foreign Countries: 8,557 skins (£2,141) in 1913, 61,152 skins (£19,982) in 1922.

(United States): 8,557 skins (£2,141) in 1913, 61,152 skins (£19,982) in 1922.

TABLE F 8

PARTICULARS OF MANUFACTURES AND PRODUCTS

		ery and Making.	Leather Goods Tanning, Fellmon Making and Woolscour:						
	1910–11	1921–22	1910–11	1921-22	1910–11	1921-22	1910–11	1921-22	
No.of establishments Materials used f. Products f. Total employees	220,364	73 131,378 228,035	16,585		2,036,770	58 1,117,667 1,625,861	619,873		
Total salaries and wages paid , f,	594 62,482	391 76,726	39 3.350	27,250	1,372 136,875	1,290 268,976	2,072	2,331 380,339	
Approx. value of land and buildings £					171,199		136,353	238,894	
Approx. value of machinery, plant, tools, and imple-								•	
ments . £	11,066	11,849	492	5,120	90,257	140,243	90,704	117,971	

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TANNING, FELLMONGERING, AND WOOLSCOURING

Particulars of Materials used and Products

		1910–1		1921-22		
		Quantity.	Value (£).	Quantity	Value (£)	
Sheepskins operated on		4,440,392	683,170	2,696,105	321,135	
Hides, pelts ", "		2,835,289	398,173	803,660	295,721	
Bark used, N. Zealand		626 tons	4,383	146	1,584	
" imported.	•	2,544 ,,	25,697	2,800	45,612	
Pelts produced		1,155,488	105,305	704,555	63,140	
Leather produced		4,762,803 lb.	326,471	4,622,081	520,712	
Basils	•	236,825 ,,	14,285	296,186	56,688	
Pickled pelts	·	2,944,360	204,394	1,697,929	156,082	

TABLE F 10

EXPORTS OF SOLE LEATHER

Total Exports : Included in F 19 for 1913, 271,290 lb. $(\pounds 28,135)$ in 1922. To Empire Countries : Included in F 19 for 1913, 267,067 lb. $(\pounds 27,502)$ in 1922. (United Kingdom) : Included in F 19 for 1913, 265,402 lb. $(\pounds 27,111)$ in 1922. To Foreign Countries : Included in F 19 for 1913, 4,223 lb. $(\pounds 633)$ in 1922. (Society Islands) : Included in F 19 for 1913, 4,223 lb. $(\pounds 633)$ in 1922.

TABLE F 11

EXPORTS OF LEATHER FOR BELTING

Total Exports : Included in F 19 for 1913, 878 lb. (\pounds_{115}) in 1922. To Empire Countries : Included in F 19 for 1913, none in 1922. To Foreign Countries : Included in F 19 for 1913, 878 lb. (\pounds_{115}) in 1922.

TABLE F 12

EXPORTS OF TANNED CALFSKINS (WHOLE)

Total Exports : Included in F 19 for 1913, 961 lb. $(\pounds713)$ in 1922. To Empire Countries : Included in F 19 for 1913, 413 lb. $(\pounds631)$ in 1922. To Foreign Countries : Included in F 19 for 1913, 548 lb. $(\pounds82)$ in 1922.

TABLE F 13

EXPORTS OF HIDE LEATHERS OTHER THAN EAST INDIA KIP (UNDRESSED)

Total Exports : Included in F 19 for 1913, 34,978 lb. $(\pounds 2,353)$ in 1921. To Empire Countries : Included in F 19 for 1913, 24,020 lb. $(\pounds 1,514)$ in 1921. (United Kingdom) : Included in F 19 for 1913, 23,057 lb. $(\pounds 1,453)$ in 1921. To Foreign Countries : Included in F 19 for 1913, 10,958 lb. $(\pounds 839)$ in 1921. (United States) : Included in F 19 for 1913, 10,958 lb. $(\pounds 839)$ in 1921.

EXPORTS OF TANNED GOAT- AND KIDSKINS

Total Exports : Included in F 19 for 1913, 6,021 lb. $(\pounds_{3,993})$ in 1922. To Empire Countries : Included in F 19 for 1913, 5,760 lb. $(\pounds_{3,716})$ in 1922. (*Australia*) : Included in F 19 for 1913, 5,760 lb. $(\pounds_{3,716})$ in 1922. To Foreign Countries : Included in F 19 for 1913, 261 lb. (\pounds_{277}) in 1922.

TABLE F 15

EXPORTS OF TANNED SHEEP- AND LAMBSKINS

Total Exports : Included in F 19 for 1913, 18,006 lb. $(\pounds 1,391)$ in 1922. To Empire Countries : Included in F 19 for 1913, 17,934 lb. $(\pounds 1,349)$ in 1922. (United Kingdom) : Included in F 19 for 1913, 17,907 lb. $(\pounds 1,343)$ in 1922. To Foreign Countries : Included in F 19 for 1913, 72 lb. $(\pounds 2)$ in 1922.

TABLE F 16

EXPORTS OF HIDE LEATHERS OTHER THAN EAST INDIA KIP (DRESSED)

Total Exports : Included in F 19 for 1913, 113,136 lb. $(f_{11},904)$ in 1922. To Empire Countries : Included in F 19 for 1913, 113,136 lb. $(f_{11},904)$ in 1922. (*United Kingdom*) : Included in F 19 for 1913, 113,136 lb. $(f_{11},904)$ in 1922. To Foreign Countries : Included in F 19 for 1913, none in 1922.

TABLE F 17

EXPORTS OF JAPANNED AND ENAMELLED LEATHER

Total Exports : Included in F 19 for 1913, 34 lb. $(\pounds 26)$ in 1922. To Empire Countries : Included in F 19 for 1913, 34 lb. $(\pounds 26)$ in 1922. To Foreign Countries : Included in F 19 for 1913, none in 1922.

TABLE F 18

EXPORTS OF CHAMOIS LEATHER

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Total Exports : Included in F 19 for 1913, $\pounds 6,251$ in 1922. To Empire Countries : Included in F 19 for 1913, $\pounds 6,251$ in 1922. (*Australia*) : Included in F 19 for 1913, $\pounds 5,918$ in 1922. To Foreign Countries : Included in F 19 for 1913, none in 1922.

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EXPORTS OF LEATHER

Total Exports : 4,497 cwt. (£33,257) in 1913, 410,326 lb. (£46,277) in 1922. To Empire Countries : 4,473 cwt. (£32,941) in 1913, 404,344 lb. (£45,128)

in 1922.

(United Kingdom): 4,343 cwt. (£30,869) in 1913, 396,389 lb. (£40,324) in 1922. (*Australia*): 126 cwt. $(f_{1,994})$ in 1913, 6,864 lb. $(f_{4,564})$ in 1922. To Foreign Countries : 24 cwt. (f_{316}) in 1913, 5,982 lb. $(f_{1,149})$ in 1922.

TABLE F 20

EXPORTS OF LEATHER BELTING

Total Exports : 411 lb. (£51) in 1913, 860 lb. (£549) in 1922. To Empire Countries : 403 lb. (f,49) in 1913, 227 lb. (f,106) in 1922. To Foreign Countries : 8 lb. (f_2) in 1913, 633 lb. (f_2443) in 1922.

TABLE F 21

IMPORTS OF SKINS AND PELTS

Total Imports : 2,689 skins (£234) in 1913, 30,276 skins (£6,446) in 1922. From Empire Countries : 1,891 skins (£129) in 1913, 27,317 skins (£3,927)

in 1922.

(Australia): 429 skins (£34) in 1913, 19,576 skins (£1,325) in 1922.

(*Africa*): None in 1913, 3,959 skins (£2,036) in 1922. From Foreign Countries : 798 skins (£105) in 1913, 2,959 skins (£2,519) in 1922.

TABLE F 22

IMPORTS OF HIDES, PELTS, SKINS, NOT OTHERWISE SPECIFIED

Total Imports : Included in F 21 for 1913, 11,781 skins (£5,897) in 1922. From Empire Countries : Included in F 21 for 1913, 8,822 skins $(f_{3,378})$ in 1922. (United Kingdom): Included in F 21 for 1913, 2,463 skins (£458) in 1922. (Africa): Included in F 21 for 1913, 3,959 skins (£2,036) in 1922. (*Australia*): Included in F 21 for 1913, 1,081 skins ($\pounds776$) in 1922. From Foreign Countries: Included in F 21 for 1913, 2,959 skins ($\pounds2,519$)

in 1922.

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IMPORTS OF HIDES, CATTLE AND HORSE

- Total Imports: 10,278 skins (£17,027) in 1913, 4,248 skins (£10,090) in 1922.
- From Empire Countries : 8,156 skins (£12,114) in 1913, 2,325 skins (£4,330) in 1922.

(United Kingdom): 822 skins (£2,902) in 1913, 310 skins (£1,493) in 1922.

(Australia): 7,280 skins (£9,160) in 1913, 672 skins (£1,454) in 1922.

From Foreign Countries : 2,122 skins (£4,913) in 1913, 1,923 skins (£5,760) in 1922.

(Italy): 650 skins (£2,199) in 1913, 534 skins (£2,294) in 1922.

(Society Islands): 853 skins (£742) in 1913, 522 skins (£251) in 1922.

(Portugal): None in 1913, 647 skins (£2,626) in 1922.

TABLE F 24

Imports of Tanning Bark

Total Imports : 3,118 tons (£31,017) in 1913, 1,623 tons (£21,860) in 1922. From Empire Countries : 3,050 tons (£30,121) in 1913, 1,623 tons (£21,860) in 1021.

(Australia): 2,910 tons (£28,797) in 1913, 850 tons (£11,942) in 1922. (South Africa): 127 tons (£1,106) in 1913, 758 tons (£9,680) in 1922.

From Foreign Countries : 68 tons (£896) in 1913, none in 1922.

TABLE F 25

IMPORTS OF TANNING MATERIALS NOT OTHERWISE SPECIFIED

Total Imports : $\pounds 6,559$ in 1913, $\pounds 25,136$ in 1922. From Empire Countries : $\pounds 4,371$ in 1913, $\pounds 16,806$ in 1922. (United Kingdom) : $\pounds 658$ in 1913, $\pounds 10,767$ in 1922. (Australia) : $\pounds 3,058$ in 1913, $\pounds 3,681$ in 1922. (India) : $\pounds 645$ in 1913, $\pounds 985$ in 1922. (South Africa) : None in 1913, $\pounds 1,209$ in 1922.

From Foreign Countries : $\pounds 2,188$ in 1913, $\pounds 8,330$ in 1922. (Belgium) : $\pounds 79$ in 1913, $\pounds 2,881$ in 1922. (United States) : $\pounds 662$ in 1913, $\pounds 3,570$ in 1922. (Argentine) : None in 1913, $\pounds 624$ in 1922.

IMPORTS OF SOLE, PUMP, AND SKIRT LEATHER¹

Total Imports : Included in F 45 for 1913, 1,027,718 lb. (£142,776) in 1922. From Empire Countries : Included in F 45 for 1913, 962,443 lb. (£132,919) in 1922.

(United Kingdom): Included in F 45 for 1913, 694,099 lb. (£107,878) in 1922. (Canada) : Included in F 45 for 1913, 53,450 lb. (£7,759) in 1922. (Australia) : Included in F 45 for 1913, 214,746 lb. (£17,239) in 1922.

From Foreign Countries : Included in F 45 for 1913, 65,275 lb. (£9,857) in 1922.

¹ Probably almost entirely sole leather.

TABLE F 27

IMPORTS OF BELT LEATHER, HARNESS, WELTING, STRAP, LEGGING, BAG, AND BRIDLE KIP (OTHER THAN EAST INDIA)

Total Imports : Included in F 45 for 1913, 42,061 lb. (£6,785) in 1922. From Empire Countries : Included in F 45 for 1913, 41,343 lb. (£6,534) in 1922. (United Kingdom): Included in F 45 for 1913, 10,704 lb. (£2,397) in 1922. (Australia): Included in F 45 for 1913, 30,639 lb. (£4,137) in 1922. From Foreign Countries: Included in F 45 for 1913, 718 lb. (£251) in 1922.

TABLE F 28

IMPORTS OF TANNED CALFSKINS (WHOLE)

Total Imports : Included in F 45 for 1913, 60,146 lb. (£42,999) in 1922.

From Empire Countries : Included in F 45 for 1913, 49,046 lb. (£32,978) in 1922.

(United Kingdom): Included in F 45 for 1913, 22,944 lb. (£12,633) in 1922.

(Australia): Included in F 45 for 1913, 19,763 lb. (£15,801) in 1922.

From Foreign Countries : Included in F 45 for 1913, 11,100 lb. (£10,021) in 1922.

(United States): Included in F 45 for 1913, 10,412 lb. (f.9.769) in 1922.

TABLE F 29

IMPORTS OF HIDE LEATHERS OTHER THAN EAST INDIA KIP (UNDRESSED)

Total Imports : Included in F 45 for 1913, 20,605 lb. (£1,320) in 1922. From Empire Countries : Included in F 45 for 1913, 20,507 lb. (£1,191) in 1922. (United Kingdom) : Included in F 45 for 1913, 3,060 lb. (£517) in 1922. (Australia) : Included in F 45 for 1913, 17,447 lb. (£674) in 1922. From Foreign Countries : Included in F 45 for 1913, 98 lb. (£129) in 1922.

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IMPORTS OF TANNED GOAT- AND KIDSKINS

Total Imports : Included in F 45 for 1913, 77,063 lb. $(\pounds 63,740)$ in 1922. From Empire Countries : Included in F 45 for 1913, 41,936 lb. $(\pounds 35,448)$

in 1922.

(United Kingdom): Included in F 45 for 1913, 37,109 lb. (£31,551) in 1922. (Australia): Included in F 45 for 1913, 4,698 lb. (£3,728) in 1922.

From Foreign Countries : Included in F 45 for 1913, 35,127 lb. (£28,292) in 1922.

(France): Included in F 45 for 1913, 1,711 lb. (£2,158) in 1922.

(United States): Included in F 45 for 1913, 33,416 lb. (£26,134) in 1922.

TABLE F 31

IMPORTS OF TANNED SHEEP- AND LAMBSKINS

Total Imports : Included in F 45 for 1913, 30,355 lb. (£10,671) in 1922. From Empire Countries : Included in F 45 for 1913, 29,290 lb. (£10,044) in 1022.

(United Kingdom): Included in F 45 for 1913, 1,090 lb. (£421) in 1922.

(Australia): Included in F 45 for 1913, 28,156 lb. (£9,569) in 1922.

From Foreign Countries : Included in F 45 for 1913, 1,065 lb. (£627) in 1922. (United States): Included in F 45 for 1913, 816 lb. (£,508) in 1922.

TABLE F 32

IMPORTS OF DRESSED EAST INDIA KIP

Total Imports : Included in F 45 for 1913, 9,760 lb. (£1,489) in 1922. From Empire Countries : Included in F 45 for 1913, 9,736 lb. (£1,463) in 1922. (United Kingdom): Included in F 45 for 1913, 8,980 lb. (£1,369) in 1922. From Foreign Countries: Included in F 45 for 1913, 24 lb. (£26) in 1922.

TABLE F 33

IMPORTS OF HIDE LEATHER OTHER THAN EAST INDIA KIP (DRESSED)

Total Imports : Included in F 45 for 1913, 72,587 lb. (£18,593) in 1922. From Empire Countries : Included in F 45 for 1913, 71,885 lb. (£18,137) in 1022.

(United Kingdom): Included in F 45 for 1913, 36,950 lb. (£7,954) in 1922. (Australia): Included in F 45 for 1913, 27,992 lb. (£7,262) in 1922.

From Foreign Countries : Included in F 45 for 1913, 702 lb. (£456) in 1922. (United States): Included in F 45 for 1913, 505 lb. (£411) in 1922.

Imports of Japanned and Enamelled Leather

Total Imports : Included in F 45 for 1913, 54,158 lb. (£37,016) in 1922. From Empire Countries : Included in F 45 for 1913, 34,665 lb. (£18,520) in 1922. (United Kingdom) : Included in F 45 for 1913, 7,632 lb. (£3,576) in 1922. (Canada) : Included in F 45 for 1913, 9,735 lb. (£7,052) m 1922. (Australia) : Included in F 45 for 1913, 17,297 lb. (£6,642) in 1922. From Foreign Countries : Included in F 45 for 1913, 19,494 lb. (£18,496) in 1922.

TABLE F 35

IMPORTS OF CHAMOIS LEATHER

Total Imports : Included in F 45 for 1913, £2,092 in 1922. From Empire Countries : Included in F 45 for 1913, £1,782 in 1922. (United Kingdom) : Included in F 45 for 1913, £1,730 in 1922. From Foreign Countries : Included in F 45 for 1913, £360 in 1922. (Umited States) : Included in F 45 for 1913, £355 in 1922.

TABLE F 36

IMPORTS OF LEATHER NOT OTHERWISE SPECIFIED

Total Imports : Included in F 45 for 1913, 77,704 lb. (£12,431) in 1922. From Empire Countries : Included in F 45 for 1913, 75,555 lb. (£10,490) in 1922. (United Kingdom) : Included in F 45 for 1913, 14,732 lb. (£5,58) in 1922. (Australia) : Included in F 45 for 1913, 58,829 lb. (£4,680) in 1922. From Foreign Countries : Included in F 45 for 1913, 2,149 lb. (£1,941) in 1922. (United States) : Included in F 45 for 1913, 2,148 lb. (£1,940) in 1922.

TABLE F 37

BOOT AND SHOE MAKING

Particulars of Materials used and Products

					1910-	11		1921-22		
				Quantity.	-	Value (f).	Quantity.		Value (£).	
New Zealand les	ther	use	đ	2,267,060		140,298	2,173,850		216,865	
,,	,,	,,		1,331,274	ft.	50,038	2,138,716		151,378	
Imported	"	,,		135,298	ΙЬ.	14,113	366,379		48,671	
,,	,,	"		1,771,193	ft.	72,741	1,279,851	ft.	140,149	
Boots and shoes	proc	luce	đ	1,324,477		571,640	1,329,158	pairs	1,232,687	
Slippers	-	,,		68,040	- , ,	14,769	32,811	"	11,459	
Shoettes .				98,644	,,	11,538	29,296	,,	7,429	
Uppers (for sole).			17,464	,,	6,925				
Leggings .	•			2,279	,,	777				
VOL. VI	18									

6.

IMPORTS OF BOOTS AND SHOES (SIZES O TO 6)

- Total Imports : 23,326 doz. pairs (£24,111) in 1913, 35,352 doz. pairs (£84,544) in 1022.
- From Empire Countries : 23,099 doz. pairs (£23,960) in 1913, 35,175 doz. pairs (f.84,438) in 1922.
- (United Kingdom): 23,088 doz. pairs (£23,950) in 1913, 33,416 doz. pairs (f.80,590) in 1922.
- (Australia): 9 doz. pairs (£8) in 1913, 1,240 doz. pairs (£2,938) in 1922.
- From Foreign Countries : 227 doz. pairs (f.151) in 1913, 78 doz. pairs (f.106) in 1022.

TABLE F 39

IMPORTS OF BOOTS AND SHOES NOT OTHERWISE SPECIFIED

- Total Imports: 115,112 doz. pairs (£358,221) in 1913, 87,521 doz. pairs $(f_{515,096})$ in 1922.
- From Empire Countries : 110,729 doz. pairs ($f_{345,773}$) in 1913, 84,411 doz. pairs (f, 477, 070) in 1922.
- (United Kingdom): 107,111 doz. pairs (£339,963) in 1913, 71,498 doz. pairs (£433,501) in 1922.

(Australia): 154 doz. pairs (£868) in 1913, 1,857 doz. pairs (£17,841) in 1922.

From Foreign Countries : 4,383 doz. pairs (£,12,448) in 1913, 3,110 doz. pairs $(f_{38,026})$ in 1022.

TABLE F 40

IMPORTS OF SADDLERY AND HARNESS

Total Imports : Included in F 45 for 1913, £8,809 in 1922. From Empire Countries : Included in F 45 for 1913, £8,809 in 1922. (United Kingdom): Included in F 45 for 1913, £8,809 in 1922. From Foreign Countries : Included in F 45 for 1913, none in 1922.

TABLE F 41

IMPORTS OF LEATHER BELTING

Total Imports : 28,959 lb. (\pounds 4,739) in 1913, 30,178 lb. (\pounds 10,932) in 1922. From Empire Countries : 26,286 lb. (\pounds 4,059) in 1913, 25,432 lb. (\pounds 8,529) in 1022.

(United Kingdom): 21,860 lb. (£3,287) in 1913, 11,440 lb. (£4,233) in 1922.

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(Australia): 4,382 lb. (f.764) in 1913, 40 lb. (f.9) in 1922. (Canada): 44 lb. (f.8) in 1913, 13,952 lb. (f.4,287) in 1922.

From Foreign Countries : 2,673 lb. (£680) in 1913, 4,746 lb. (£2,403) in 1922. (United States): 2,667 lb. (£678) in 1913, 4,742 lb. (£2,402) in 1922.

IMPORTS OF BELTING (OTHER THAN LEATHER)

Total Imports : $\pounds_{40,123}$ in 1913, $\pounds_{61,517}$ in 1922. From Empire Countries : $\pounds_{36,640}$ in 1913, $\pounds_{51,985}$ in 1922. (United Kingdom) : $\pounds_{35,500}$ in 1913, $\pounds_{38,772}$ in 1922. (Australia) : $\pounds_{1,632}$ in 1913, $\pounds_{4,986}$ in 1922. (Canada) : \pounds_{2} in 1913, $\pounds_{8,227}$ in 1922. From Foreign Countries : $\pounds_{3,483}$ in 1913, $\pounds_{9,532}$ in 1922. (United States) : $\pounds_{3,090}$ in 1913, $\pounds_{9,363}$ in 1922.

TABLE F 43

IMPORTS OF LEATHER BAGS UNDER 10 IN. LONG

Total Imports : Included in F 45 for 1913, £2,786 in 1922. From Empire Countries : Included in F 45 for 1913, £2,758 in 1922. (United Kingdom) : Included in F 45 for 1913, £1,448 in 1922. (Australia) : Included in F 45 for 1913, £1,308 in 1922. From Foreign Countries : Included in F 45 for 1913, £28 in 1922.

TABLE F 44

IMPORTS OF PORTMANTEAUX, TRUNKS, AND CARPET BAGS

Total Imports : Included in F 45 for 1913, £4,988 in 1922. From Empire Countries : Included in F 45 for 1913, £4,685 in 1922.

(United Kingdom): Included in F 45 for 1913, £3,806 in 1922.

(Australia): Included in F 45 for 1913, £795 in 1922.

From Foreign Countries : Included in F 45 for 1913, £303 in 1922. (United States) : Included in F 45 for 1913, £203 in 1922.

TABLE F 45

Imports of Leather and Leather Goods (not including Boots and Shoes)

Total Imports : 1,293,998 lb. (£206,387) in 1913, 1,394,782 lb. (£344,578) in 1922. From Empire Countries : 1,168,776 lb. (£167,828) in 1913, 1,261,173 lb. (£275,769) in 1922.

(United Kingdom): 806,281 lb. (£120,231) in 1913, 822,882 lb. (£184,631) in 1922. (Australia): 266,514 lb. (£39,728) in 1913, 361,494 lb. (£68,510) in 1922.

(Canada): 95,981 lb. (£7,869) in 1913, 63,631 lb. (£15,230) in 1922.

From Foreign Countries : 125,222 lb. (£38,559) in 1913, 133,609 lb. (£68,809) in 1922.

(Germany): 17,811 lb. (£8,738) in 1913, not known in 1922.

(France): 15,547 lb. (£3,888) in 1913, 864 lb. (£2,706) in 1922.

(United States) : 81,958 lb. (£25,091) in 1913, 130,422 lb. (£66,018) in 1922.

(Italy): 8,817 lb. (£366) in 1913, not known in 1922.

APPENDIX

CUSTOMS TARIFF (IMPORT DUTIES)

	British Preferential Tariff	Intermediate Tariff.	General Tarıff,
Hide leathers, kangaroo skins and wallaby skins, crust		100110	101101
or rough-tanned, but undressed, not having been			
set out, oiled or rolled ad. val.	5%	71%	10%
Leather, viz., goatskins and kidskins, however dressed, persians	Free	-	**
persians	Free	5 » 5 »	10 ,, 10 ,,
Bookbinders' leather of qualities approved by the Minister, and under conditions prescribed by him		5 "	10 ,,
ad. val.		5 "	10 "
Leather, japanned or enamelled, also such other leather		5.1	
specially suited for furniture and upholstery work,			
as may be approved by the Minister, and on condi- tions prescribed by him	17	The second se	F actor
Sole leather, being bends each weighing 14 lb. net or	Free	Free	Free
over per lb.	3d.	4d.	5d.
Leather, n.e i belts, not being apparel and belting,	34.	44.	34.
wholly or partly composed of leather . ad. val.		20%	25%
or per lb.		4d.	5d.
(Whichever rate returns the higher duty.) Leather board, or compo, composed of skivings, split leather, leather, scraps or the same mixed with other material, cemented and pressed together, cut			
into shapes or otherwise per lb. Leather laces, vamps and uppers, leather cut into shapes, clog and pattern soles, leather leggings		IS.	IS.
ad. val.		371%	45%
Saddlery, harness, whips and whip-thongs ad. val.		30 "	35 ,,
Leather manufactures, not being articles of apparel,			
n.e.i., chamois leather ad. val. Boots, shoes, shoettes, sandals, clogs and pattens, slippers and goloshes, viz., children's Nos. o to 6	,	30 "	35 "
ad. val.		10 "	20 ,,
Boots, shoes, shoettes, sandals, clogs and pattens, slippers and goloshes, viz. children's, Nos. 7 to 9			
ad. val. Boots, shoes, clogs, pattens, slippers, shoettes, sandals	,	10 "	20 "
goloshes, overshoes and other footwear, n.e.i.			
ad. val.	. 25%	37 1 ,,	45 »
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CUSTOMS TARIFF (IMPORT DUTIES)-continued

	British Preferential Tariff.	Intermediate Tariff.	General Tarıff.
Leather bags, leathercloth attache cases and the like			
receptacles, n.e.i. (not including basketware,			~
wickerware, or similar receptacles ad. val.	20%	30%	35%
Portmanteaux, trunks, travelling bags, brief bags of			
leather or leathercloth, attache cases, suit cases and			
similar receptacles, 10 inches in length and upwards			
(not including basketware, wickerware, or similar			
receptacles) ad. val.	25 ,,	35 "	40,,
Belts and belting for driving machinery, n.e.i., and not	-5 //	55 %	1 "
being cordage or rope, conveyor belts, and belting			
of rubber, textile, fibre, or combination of these			
	Free		
materials ad. val.	rree	10,,	20 ,,

NOTE .- A " primage " tax of I per cent ad valorem is also levied.

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SECTION G

SOUTH AFRICA

THE contribution of the Union of South Africa to the leather industry touches all the materials used in the production of leather, viz. hides, sheepskins, goatskins, and tanning materials. In each of these items she is a large exporter. At the present time she exports very little leather, but her tanneries are developing and may conceivably follow a course similar to that of the Australian tanneries which have been large exporters. Her policy is by means of protective tariffs to develop the tanning industry and also the industries manufacturing leather goods, and in view of the fact that she is abundantly provided with the raw materials it is likely that the industry will thrive in future.

HIDES

The total number of cattle in the Union at the last pre-War census (1911) and the latest post-War one (30th April, 1921) was :—

1911				5,800,000
1921	•	•	•	8,560,000

Details of the cattle enumerated in 1921 are shown in Table G 1, and the increase between 1911 and 1921 was nearly 50 per cent. Figures have been published of recent years to show the number of hides produced, but it is clear that these figures are deficient. (The number returned for the fiscal year 1920-21 was less than the number exported.)

Particulars have been available each year since 1917 of the weight and value of the hides used in the tanneries in the Union (see Table G 12), while Tables G 2, 3, and 4 give details of the hides exported. As figures of the consumption of hides before the War are not available, and the data of the War and post-War periods afford little clue to these, it is not possible to make a comparison of the pre-War with the post-War position as regards hide consumption. Moreover, owing to the fact that the foreign trade figures are for the calendar year, while those obtained from the production census are for the year ending [une 30th, the combination of these does not lead to results which are strictly accurate. Making the nearest comparison possible, however, and taking the lomestic consumption for the year ending June 30th, 1921, with the exports for the year 1921, the figures are :—

			lb.(000)	£
Domestic consumption .			9,700	418,000
Exports, wet-salted .	•	•	9,230	214,000
,, dry and dry-salted	•	•	5,070	148,000
Т	'otal			780,000
	Q.			

The total number of hides represented by the exports was 388,000. The number represented in the domestic consumption (calfskins are included in the figures) was probably in the neighbourhood of 400,000 or more. The total supply in the period of depression referred to accordingly was probably about 800,000. The total export in 1922, however (see Table G 4), was 614,000, which would indicate a supply probably over 1,000,000. This figure is supported by the fact that the numbers exported (see Table G 4) in 1912 and 1913 (when the number tanned was certainly less than in 1921-22) were 820,000 and 880,000 respectively. We are probably not far from the truth accordingly in taking the number of hides in 1913 and 1921-22 as about 1,000,000, of value about £1,000,000 in 1913 and of value £900,000 in 1921-22. This number of hides seems small in comparison with the number of cattle, but if the export and production figures are correct it cannot be very far from the truth. The cattle in South Africa, however, suffer from an extremely heavy natural mortality; particulars are collected of the number dying from various diseases, and for the year ending 30th April, 1921, the total was 440,000, classified as follows :----

Anthrax .						•	9,924
East Coast fever		•				•	7,417
Lamziekte .	•	•	•		•	•	44,607
Other diseases	•	•	•	•	•		159,739
Drought .	•	•	· ·	•	•	•	77,577
In Union native l	ocati	ons ar	id res	erves	•	•	140,927

Even these figures are likely to underestimate the true mortality, which may accordingly probably be as high as 500,000 cattle per annum.

In the Foreign Trade Returns for 1913 no distinction was made between wet-salted and dry and dry-salted hides, but in the figures for the post-War years this distinction was made. In 1913, 90 per cent of the hides exported from South Africa came to the United Kingdom. Only 60 per cent in 1921 and 40 per cent in 1922 of the wet hides exported came to this country, Germany in the former year and France in the latter each taking 25 per cent. Of the dry and dry-salted hides exported in 1921 65 per cent, and in 1922 78 per cent, came to the United Kingdom, Germany taking most of the remainder.

By far the best means of describing the problems associated with the trade in South African hides is to quote *in extenso* from the report by Mr. W. N. Hutchings written in 1922. Mr. Hutchings, a tanner of Warrington, was President of the Chamber of Commerce of that town in the year in which it received one of the Research Fellowships instituted by the Management Committee of the British Empire Exhibition for the purpose of enquiring into various aspects of inter-Imperial trade. In view of the importance of South Africa as a supplier of the raw materials required in the tanning industry, Mr. Hutchings selected that country as a field for his enquiries, and the following extracts from his report describe the problems particularly associated with the hide trade there :---

" In heavy hides the loss from bad flay and wasteful branding is estimated

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at considerably over 10s. per hide. The loss on lighter hides is less easy to estimate, but it is probably an underestimate to put the loss of one hide with another at 6s. 8d. per hide, or, say, $\pounds_{400,000}$ on 1,200,000 hides. This loss is almost wholly preventable. To the tanning trade it means that in place of r_{4}^{1} millions of good quality hides, there is that quantity of hides more or less damaged. They cost as much for freight, and as much in every item of tanning as sound hides, and produce a leather which is not wanted, and, further, which cannot be sold without loss at a price proportionate to its demerits, because of the cost to produce it.

"The bulk of the hides exported from South Africa are dry and dry-salted, chiefly the latter. The wet-salted hides are almost entirely from a few large towns—Cape Town, Durban, Maritzburg, Johannesburg, and the towns in the neighbourhood of Pretoria.

⁷⁴ Johannesburg and neighbourhood supply by far the most important part. It is in the wet-salted that the loss is easiest to appraise, and the cure is the most possible to apply. If compared with hides from the River Plate, South America, the South African hides are somewhat less stout than the Saladero hides; a proportion have a yoke mark on the neck, and a proportion will have thorn scratched grain and whip marks. On the other hand, they are free from tick, and are in general better trimmed, which characteristics fairly balance one another. The great difference is the bad flay of the South Africans. The difference in price is rarely less than 2d., on any values ruling for some years past, or Ios. on a 6o-lb. hide. There is no reason for anything like such a difference, except careless handling.

"In Cape Town, Durban, Johannesburg, etc., all cattle must be killed at the municipal abattoirs, but they are killed by men employed by the butchers, so that the municipality does not control the flaying. The hides from different butchers vary greatly in flay. Some of the big firms have improved the standard, and in the case of one or two marks, get a better than average price on the market—about ¹/₂d. per lb., but this is only a beginning. The average price can yet be greatly raised by a higher standard. The great defect seems to be mixing hastily and defectively flayed hides with better stuff. The Government of the Union, which is most eager to improve the standard of all South African products, has, within the last few weeks, passed an Act to enable it to inspect and grade hides at the abattoirs, and it is proposed to establish a high standard of flay. This should have far-reaching consequences for good if efficiently administered. It is to be hoped that no classification will be such as to prejudice the Overseas trade. In South Africa, which is a country in process of development, the Government exercises more direct control in the conditions of industry than at home.

" I took with me photographs of leather made from South African hides and taken in our own yard, to illustrate the damage caused by bad flaying and by branding. One showed a bend made from an abattoir-flayed hide, on which were pencilled the patterns of forty-six through soles, as a manufacturer would cut the leather up. Of the forty-six only six were undamaged by cuts, and most were very badly damaged. Another photo showed the same bend alongside

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one which was perfectly flayed. This was reproduced by the Department of Agriculture in their *Journal of Agriculture* for June, in which also was published a very interesting article on the subject, and another on brands. The damage from this source (brands) was illustrated by a third photo, this one showing also the traces of many whip marks on the grain of the hide. I found these photos invaluable, and they aroused much interest from Government officials to slaughtermen. I have left copies in a good many quarters where it seemed they might be useful, and continue to do good work.

DRY AND DRY-SALTED HIDES

"Dry and dry-salted hides, as already stated, constitute the bulk of the exported hides. They comprise all the hides excepting those killed in the largest towns, and vary greatly in value in accordance with the care taken in flaying and in curing. They are collected from all over the Union and from South-West Territory and Rhodesia, and shipped principally from Port Elizabeth and East London, Durban also supplying a quota. In immense areas the hides will be collected in ones and twos by the local storekeeper. They are taken off by men who do not get enough practice to learn how to do it well, and who do not see any reason for special care, as they get as much for one hide as another, good, bad, or indifferent. This seems to apply to the native and other districts alike, some of the native districts sending quite good stuff. The manner of flaying is different on these country hides from that of the city abattoirs—they are taken off often with an unsuitable knife, probably the knife the man always carries, and are, in bad cases, cut all over with short deep cuts, 3 to 5 inches long. Sometimes the number of cuts is so great that one would hardly credit it without seeing. The local storekeeper will, in turn, sell them to dealers, or send them to be auctioned in Port Elizabeth, or collect them for the big merchant house by whom he is probably financed. There does not seem to be any attempt to impress on him, any more than on the farmer, the value of good stuff, and until this is very clear to him he cannot be expected to trouble much, for he is far too busy and the hide is not very important to him. The impetus must come from the buyers, merchants, or dealers instructing their agents, and paying for good quality. Then, helped by Government and other propaganda, the idea may spread, even in the deep country. The smaller towns are more readily influenced, but generally there does not seem much reason to look for any widespread early improvement.

"The standard of sorting hides at the coast for flay is quite bad and tends to perpetuate the fault. Any hide without a hole cut right through it in the body of the hide is classed as No. I as to flay, though it might be cut half-way through the hide in a hundred places. If this standard could be altered at the Port Elizabeth auctions the result would probably be far-reaching, as it would bring into action the incentive of higher pay for good flaying. In fact it is probable that this is a necessary initial step.

"Hides are sprinkled with arsenic solution, somewhat crudely, when they come to the big warehouses, and the standard of selection on the grain is quite

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a satisfactory one. An improvement in detail would be the use of a sprayer such as is used for whitewashing or for fruit trees, as ensuring even application of the solution.

ANTHRAX

"This disease is widely spread, and in some parts of the country is very serious. In the four provinces, Cape, Natal, Orange Free State and Transvaal, in June 1920–21, 1,381 outbreaks were recorded resulting in 5,752 deaths. The Orange Free State and Transvaal are the worst. In the native Transkei territories 493 outbreaks were reported. A vaccine has been found to give immunity from this, and in the four provinces named 280,794 innoculations were made in this year, and in the Transkeian territories 212,730 in the same time, the natives in this district being very ready to take advantage of the innoculation. Since the first innoculations an improved vaccine has been found. The Government has been most successful in eradicating tick, and minimising East Coast fever, and will, no doubt, have equal success in time with anthrax. It has to fight much inertia, dislike of notification and of precautions, amongst a section of the community. The immunity is for a year.

TRIM

"Most of the hides are trimmed at the abattoirs with short shanks and trimmed cheeks. Some, however, are sold with all on the shanks and on the heads. Some butchers again will sell the hide with either trim at relative prices. I am told that there is a difference of 10 lb. per hide between the two trims, and, further, there is a difference in the classing of hides as heavy or light, a light hide getting often classed as heavy if untrimmed. Buyers will be welladvised to insist and to pay adequately for the close trim.

BRANDING

"The practice of branding on the rump is another source of preventable loss. In the Transvaal it is obligatory to brand first on the near rump, and subsequently below this so long as there is space; then the same on the off side, then on near shoulder, off shoulder, near ribs, off ribs. The poor beast who endured the fulfilment of all this law must have had a poor time, and he was probably only theoretic. In other parts of the Union no special place is stipulated. In South Rhodesia the brand must be on the rump. This is only necessary where the cattle are running over big areas and are handled on horseback, a condition not applying in the great bulk of the country. It has been pointed out by the United Tanners Federation to the South African Trade Commissioner that the placing a brand on the "bend" was, at the time, " depreciating the value by about 6s. per hide, besides disqualifying it for such trades as motor car covers and belting. I have brought this before many men, ranch managers, directors, and others. In the bigger ranches it will

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probably be altered, but in smaller ones there is the thought—we shall get no more for the beast at auction, why bother? The tanners' suggestion is for the brand to be on the cheek, fore shank, hind shank, or (lastly) neck.

GOREMARKS

"Many hides are badly damaged in this way. It occurs chiefly amongst beasts which are sent long distances by rail, both in putting them on and off the trains, when they get frightened and wild, and during the journey. The remedy is to dehorn the calves, and this is being largely done on some ranches, not primarily for the sake of the hides, but because the damage to the condition of the beast is serious. This again is a question of ranch conditions. In districts where cattle are not kraaled, and where wild beasts are numerous, it cannot be done, but these are in a minority.

"A very great enemy to improvement in both brands and gores is the pretty widespread feeling that however much trouble is taken to better the hide the farmer gets no more for his cattle. The system of marketing seems to be to blame for this. At present it is the man who buys the hides from the butcher who can do good by paying more for well-flayed and sensibly branded hides. If, however, big ranches would establish a reputation for hides clear of butt and body brands and gore marks, they would command some shillings a beast more for the cattle.

"The possible future supply of hides from South Africa is very great. The sources have been broadened by the opening up of the South-West territory (German South-West Africa), and by the development of ranching there and in Swaziland and Rhodesia.

"The great problem in South Africa is want of water. This is being met in some parts by irrigation dams, and in others by pumping. There is water in most parts under the ground, and as this can be utilized, the land will carry greatly increased quantities of cattle and of crops. The enormous farms will be subdivided, and a very much larger population will be able to live on it.

"At present the controlling factor in the hide supply seems to be the establishing of an overseas market for beef. The South African beef has not hitherto taken the English market in competition with Argentine beef, but a good continental trade is done, and the progressive ranches are constantly improving their grade of cattle. The Government statistics of beef exports, beginning in 1909 with 29,589 lb., showed in 1920 13,609,039, and this was considerably less than the previous year. The farming industry has been going through a bad time, and cattle have only been saleable at slaughter prices, a fact which may be expected to tell on the supply.

"A very big attempt is being made to organise co-operative selling for the cattle breeders, under the name of the Meat Producers' Association. The management are very keen on the improvement of the cattle and of the hides, both as to flay and brands."

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SHEEPSKINS

Practically all the sheepskins produced are exported in the woolled state. The numbers used in the local tan-yards between 1916 and 1921 varied from 58,000 to 130,000 per annum, but the number exported was 7,400,000 in 1913, 4,750,000 in 1921, and 7,700,000 in 1922. The facts of the supply can be summarised as follows :---

						No. of skins.	Value £
1913			•	•		7,500,000	900,000
1921	•	•		•	•	4,900,000	720,000
1922	•					7,800,000	1,250,000

Details of the exports—by weight and value—are given in Table G 5. Before the War 96 per cent of the exports from South Africa came to the United Kingdom. Since the War, however, a considerable direct trade with France, and to a smaller extent the United States, has developed, the former country taking between 30 and 40 per cent. These skins were in considerable demand in this country during the War. Being mainly of the merino type they cannot be used for many of the purposes for which finer skins are required, for example, roller leather, but for leather for jerkins and a variety of forms of clothing they provided certain essential supplies for the Army.

The number of sheep in the Union in 1913 and in 1922 were 30,660,000 and 31,739,000 respectively. Details of the different varieties in 1921 are shown in Table G I. As in the case of cattle in South Africa, there is a very heavy mortality from disease among sheep, the total number of deaths reported occurring in the twelve months ending 30th April, 1921, being 2,164,000 sheep and 1,434,000 lambs, a total of 3,600,000 animals.

GOATSKINS

Practically all the goatskins available also are exported. The number used in the local tanneries in 1921–22 was about 40,000 skins, but the exports in 1913, 1921 and 1922 were 3,160,000, 1,280,000 and 2,160,000 respectively. The facts of the supplies can be summarised as follows :---

							No. of skins.	Value £.
1913		•			, .	•	4,000,000	330,000
1921	•		•	•	` .	•	1,300,000	140,000
1922	•	•	•	•	•	•	2,200,000	220,000

Details of the exports—by weight and value—are given in Table G 6. In 1913 99 per cent of the exports were shipped to the United Kingdom, but only 46 per cent were retained here. In 1921 and 1922 substantial direct shipments were made to the United States, Germany and France, but about 70 per cent were shipped to the United Kingdom. The number of goats in the Union in 1913 was 11,760,000, but in 1921 there were only 7,840,000 returned, indicating a decrease of no less than 34 per cent, and this is fully reflected in the decline in the exports of skins. The mortality from disease of goats and kids is also heavy, the numbers of deaths from disease in the twelve months ending 30th April, 1921, being 480,000 goats and 270,000 kids.

WATTLE BARK

The most interesting feature of South Africa in connection with the leather trade is associated with the development of the wattle bark industry. The use of wattle bark for tanning in Australia is almost as old as the tanning industry in that country, and the black wattle tree from which the bark is obtained is indigenous to that country. The tree, owing to its rapid growth, was introduced into South Africa for ornamental purposes and for wind screens, the timber being available for fencing, fuel and pit props. The bark from the African tree was first used for tanning in 1884, but the first serious growing as a commercial venture was in the New Hanover district, on the farm of Mr. F. T. Angus, about 1887. The first planting was only on a limited scale, but was added to year by year as evidence became available as to the advantages of the bark of the wattle as a tanning agent. The industry has progressed steadily ever since, and to-day there are some 200,000 acres under cultivation, of varying ages of one to twelve years' growth. Unfortunately, a proportion of such acreage has been planted on unsuitable ground, and the yield will be below the normal, which is from $3\frac{1}{2}$ to $4\frac{1}{2}$ tons per acre of dry bark. A certain portion of the area, owing to lack of the attention which is essential in the earlier life of the trees, is more or less worthless.

The growth of the industry can best be illustrated by the following figures of exports of bark and bark extract. (In recent years about 5,000 to 6,000 tons have been used in local tan-yards.)

EXPORTS OF WATTLE BARK AND WATTLE EXTRACT FROM SOUTH AFRICA, with Corresponding Quantities of Bark involved (taking $2\frac{1}{2}$ tons bark to 1 ton extract)

Year.				Bark Exported. Tons.	Extract Exported. Tons.	Total Quantity of Bark Involved. Tons.	Average over Periods.
1899				11,100		11,100	
1900				8,900		8,900	10,000
1901				13,800		13,800	12,300
 1902				15,500		15,500	
1903	•			12,100		12,100	
1904				15,800		15,800	15,100
1905				17,500		17,500	
1906		•	•	15,000		15,000	
1907	•	•	•	24,400		24,400	
1908		•		24,900		24,900 (31,600
1909	•	•	•	35,800		35,800	31,000
1910	•		•	41,400		41,400/	
1911	•	•		49,700		49,700	
1912	•	•	•	52,800		52,800 (56,400
1913	•	•		65,000		65,000 (
1914	•	•	•	58,200		58,200 [/]	

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Year.			Bark Exported. Tons.	Extract Exported, Tons.	Total Quantity of Bark Involved. Tons.	Aveiage ovei Periods
1915 .			39,900	Accessed.	39,900	
1916 .			50,800	400	51,800 (48,500
1917 .	•	•	41,700	1,200	44,700	40,500
1918 .	•	•	48,200	3,700	57,500/	
1919 .	•	•	56,600	6,100	71,800	
1920 .	•		69,600	8,500	90,400 (98,500
1921 .		•	71,400	4,900	83,600	90,300
1922 .	•	•	121,000	10,900	148,300 /	
1923 .	•	•	104,200	15,600	143,200	

EXPORTS OF WATTLE BARK-continued.

Comparing the post-War position with the immediately pre-War situation, the amount of bark involved in the exports (bark and extract together) increased from 56,400 per annum to 98,500 tons per annum, an increase of about 42,000 tons per year.

Tables G 8 and 9 show the figures of exports of bark and extract respectively for the years 1913 and 1922. The tables indicate that the bulk of the shipments were made to the United Kingdom and Germany, with substantial quantities also to Australia, Japan, United States, France, Belgium, and Holland. These tables, however, do not adequately represent the importance of the various countries as consumers of wattle bark or extract. In 1913, for example, a large proportion of the amount shipped to the United Kingdom was re-exported, while much of that shipped to Belgium (Antwerp) and Holland (Rotterdam) went to Germany's tan-yards. The actual consumption of bark and extract in the United Kingdom is estimated to have developed as follows :--

QUANTITIES OF WATTLE BARK AND WATTLE EXTRACT FROM SOUTH AFRICA RETAINED IN THE UNITED KINGDOM

						Ourselater of	
Year.				Bark Tons.	Extract. Tons.	Quantity of Bark Involved. Tons.	
1911				8,400		8,400	-
1912				8,700		8,700	,
1913				10,700		10,700	
1914				12,300		12,300	
1915	•			22,400		22,400	
1916	•	•		17,400	400	18,400	
1917	•	•		16,700	1,200	19,700	
1918	•			35,000	3,700	44,200	
1919	•	•		16,300	6,100	31,500	
1920	•	•	•	28,000	8,500	49,200	
1921	•	•		12,000	3,200	20,000	
1922	•	•		25,000	5,800	39,500	
1923		•	•	30,000	10,000	55,000	
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The consumption in other countries is estimated as follows :---

Approximate Quantities of Wattle Bark Consumed (as Bark or Extract) by certain Countries

Year.			Germany and neigh- bouring countries	United States.	Japan.	Australia	India.
1910			28,100			300	
1911			34,200			1,400	-
1912			33,900	····· ,		4,200	B-100-00
1913			36,800	100		4,000	-
1914	•		40,300	100		3,200	-
1915	•			1,400		7,500	700
1916				11,400	800	5,200	1,500
1917	•	•	and the second sec	2,800	1,700	8,100	4,500
1918			man and	2,200	5,100	3,800	1,100
1919			3,000	18,100	5,300	6,200	2,900
1920			7,000	18,200	5,000	2,800	1,300
1921			40,000	7,500	11,000	2,800	1,200
1922		•	82,000	8,900	7,400	3,500	500

The most suitable ground for the cultivation of wattles is in what is called the Midlands belt of Natal, which extends from the Umvoti country on the borders of Zululand, through Greytown, Sevenoaks, New Hanover, Ashenden, Maritzburg, and some 20 or 30 miles north of the latter—a total distance of 75–100 miles, and anything from 15–20 miles in breadth, or even more. The most suitable of this area is without doubt the Umvoti country, which includes Sevenoaks and Maritzburg, and includes also the area within a radius of ten or twelve miles of the town of Maritzburg, most of which area gets the advantage as far as growth is concerned of the mists, but has the disadvantage of making it somewhat difficult to cure the bark without damage during the summer months.

There is also very suitable ground in Zululand, but the distances of such ground from railway communication add considerably to the price delivered at, the port of shipment, which is Durban.

There is a fair quantity of wattle ground in the Richmond, Ixipo, Harding and Port Shepstone districts, but the ground in such districts is not altogether suitable, although fair results have been obtained. Also, there is a certain amount of wattles grown in the northern districts of Natal and in the Transvaal, but the plantations in such districts have not been very successful.

A very considerable further acreage could be put under cultivation if sufficient encouragement were forthcoming to the grower.

The growing of wattle trees is somewhat precarious in that a considerable period must elapse before the bark is matured. In some districts where the growth is unusually rapid, this may be between seven and eight years, but in most cases it has been found economically desirable not to start felling and

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stripping operations under ten to twelve years. In the meantime, and especially in the earlier stages of the growth, a considerable amount of labour is involved in keeping the plantations clean, which means a very considerable outlay and tying up of capital, and there is no certainty that at the end of the period the price of bark will be such as to give an adequate return. In addition to this, there is the ever-increasing danger of disease, such as bag-worm, frog hopper, and caterpillar, which have the most serious effect on the growth of the trees. There is also the constant danger of fires in the plantations, which is very real during the dry winter months.

The usual procedure of planting is to put in a certain acreage one year, following with a similar acreage the next year, and so on, until a rotation extending from one to ten years is established. When the oldest plantation is cut down, the bark having been stripped and all the timber of value having been removed, the branches are laid out in straight lines on the area so felled and allowed to lie until thoroughly dry, and then burnt. The seed which has fallen during the growth of the trees is thus germinated and a new growth begins, which after a few months is thinned out, and thinned again until the basis of a new plantation is established, and thus rotation begins over again. The term used for this procedure is "re-establishing."

Particulars of the area of land planted with wattle in the different provinces are given in Table G 10. This table shows a total area of about 200,000 acres, which, if all the trees were suitable for stripping, would indicate a supply of about 800,000 tons of bark. The figures, however, do not distinguish between plantations which have been properly thinned and cultivated and those which have not been properly attended to, and in the opinion of those well qualified to express an opinion the effective area available is very much below the figures stated, and it is probable, accordingly, that the actual "visible supply" of bark is much below the figure here stated.

A number of factories for the making of extract from wattle bark have been established in South Africa. Two are just outside Durban and two others in Maritzburg. There is also one at Mersey, one in the Sevenoaks district, and one in the New Hanover district, all being in the heart of the wattle-growing area. When obtainable, these factories use the bark green, but this is only possible during certain months of the year, as for some two or three months in the winter it is impossible to strip the bark from the trees, and the factories therefore have to provide themselves with the necessary dry bark to continue their operations.

Mr. Hutchings, in the report previously mentioned, referred to the manufacture of wattle extract as follows :---

"The manufacture of wattle bark into solid extract received a great impetus during the War, owing to the scarcity of freight room. The extract contains about 65 per cent of tan, 15 to 16 per cent of water, and takes barely half the cubic space per unit of tan that pressed bark does. I was shown over three extract factories : the efficiency of the control, both chemical and mechanical, is very noteworthy. No chemicals or 1.7

other bleaching process is employed in these, and the reds in colour tests run in some cases as low as 3.8. This, with a tanning strength of 65 per cent, is not high.

"There is no doubt that there is less waste in extracting in this way than by any old-fashioned method in use in tanneries. To what extent this may be balanced by any economy in extracting to the exact strength required for use is for the individual tanner to decide. The factories prefer to extract the newly shipped or "green" bark. It is much nicer to handle, gives no dust, and is cheaper than dried bark. A question for trade chemists is whether there is any, and, if so, what, difference between extract made from dry or green bark in tanning effect. I found a rather unexpected lack of confidence in the future of the industry in some quarters; prices, it is said, have fluctuated very greatly and very rapidly, and men want to be sure of the future demand. Speaking from my own limited knowledge, I expressed myself as confident of a continued and increased permanent demand, so long as it can be supplied at reasonable prices. As to the fluctuations, wattle would not seem to have suffered more than most other commodities in the troublous times, and less than some. A doubt was also expressed as to the competition of synthetic tans. Again, subject to the same qualification, it seems that synthetic tans have to go some way, both in improving quality and reducing prices, before they will be serious rivals to wattle bark."

A good deal of useful information on the wattle industry in its many aspects will be found in a Bulletin by Mr. Williams reprinted from the *South African Journal of Industries* in 1918, and special reference may be made to this among the other papers detailed in the bibliography to this Section.

The general statistical position of South Africa in connection with hides and skins and tanning materials may be summarised as follows :---

			Hides and Skins.		Tanning I	daterials.	Total.	
			1921 1922 £(000)		1921 £(0	1922	1921	1922
			20	00)	£(0	00)	£(000)	
Production			1,660	2,260	600	1,040	2,260	3,300
Imports .	•		small	small	50	30	50	30
Exports .			1,220	1,950	570	1,000	1,790	2,950
Consumption	•	•	440	310	80	70	520	380

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LEATHER PRODUCTION

The statistics which have been obtained since 1916 enable the development of the leather industry to be indicated in considerable detail, and in this respect South Africa is ahead of any of the Dominions and of the Mother Country. Table G 11 gives many general particulars of tanneries. The number working increased from 19 in 1915–16 to 31 in 1920–21, which number was reduced to 27 in 1921–22. Most of these tanneries are situated in Cape Colony, and six employ more than 100 workpeople. The total number of employees in 1921–22 was 1,335, receiving £128,000 in wages, while the value of the fixed capital was nearly £300,000. In 1915–16 and in 1916–17, when the value of the fixed capital was returned as £120,000 and £134,000 respectively, the total capital invested was returned at £365,000 and £458,000. Prices in the earlier of the periods mentioned had not risen much above pre-War, and it would appear from these figures that one-third, or rather less, of the capital employed in a South African tan-yard is locked up in fixed assets.

The total value of the materials used in 1915-16 and in 1921-22 were £340,000 and £430,000 respectively, the value of the corresponding product being £480,000 and £687,000. At the earlier date the proportion of materials used to output was 70 per cent, but for the later date it was 65 per cent. These proportions are below those holding in the other countries for which information was available.

The statistics collected since 1916 of the materials used in South African tanneries (see Table G 12) enable a very comprehensive view of the industry to be obtained. Approximately 90 per cent of the materials used are of local origin, though this proportion shows a tendency to diminish, being 92 per cent in 1916-17 and falling steadily to 85 per cent in 1921-22. The total value of the materials used in 1921-22 was £430,000, made up as follows :--

						£
Hides and		ıs	•	•	•	294,000
Sheepski		•			•	10,000
Goatskins	з.	•				6,000
Other ski	ns					4,000
Vegetable	e tanning	; ma	terials			57,000
Mineral	"		,,			14,000
Materials	for limit	ng				6,000
Oils and :	fats	•				18,000
Dyeing n	aterials					6,000
Other	,,	•	•		•	15,000

Hides and skins account for 73 per cent of the total, tanning materials for 17 per cent, oils and fats for 4 per cent, and the remaining materials for 6 per cent.

Particulars of output of leather are available in equal detail, and are shown in Table G 13.

The total output value in 1921-22 was £687,000. The proportion of chrome leather is quite substantial. The proportion for 1921-22 is not known, but in the previous year it was over 18 per cent, and of this 45 per cent was chrome-tanned sole leather, the output of this being about 200 tons. This last figure was about 10 per cent of the total output of sole leather, which in 1921-22 was about 2,000 tons. By value, however, the proportion of chrome-tanned sole leather was nearly 15 per cent of the total of £410,000 for sole leather. The weight of dressing leather produced was about 280 tons, of value £72,000.

Table G 13 shows that the production of chrome-tanned upper leather has made considerable headway in comparison with vegetable-tanned upper leather. By weight, since 1916–17, the former has more than doubled, but the latter has fallen by nearly 40 per cent; in terms of value the change is even more marked.

Details of leather imports into South Africa are rather meagre, being classified only into (a) enamelled leather (of value in 1922, £10,000—see Table C 14); (b) pigskin leather (of value in 1922, £1,400), practically all from the United Kingdom; and (c) other kinds of leather (of value in 1922, £159,000 —see Table G 16). The last-named class is the only one which need be referred to; £103,000 of the £159,000 came from the United Kingdom, and £39,000 from Australia, these two countries between them providing nearly 90 per cent of the imports.

In 1913 Australia's share in the imports into South Africa was nearly equal to that of the United Kingdom, but the former country has in the interval fallen away to a much greater extent than has the latter.

The export of leather from South Africa is, in proportion to the imports and production, inappreciable, the value in 1922 being less than $\pounds 4,000$.

Making an estimate for the production in 1913 (from the data given for the years from 1915 onwards in Table G 13), the general leather position may be summarised in approximate terms as follows :—

			1913 £(000)	1921 £(000)	1922 £(000)
Production			450	760	690
Imports	•	•	200	110	170
Consumption	•	•	650	870	860

REGULATIONS AFFECTING TANNING INDUSTRY

Tanning and leather-dressing establishments are scheduled under the Public Health Act, No. 36 of 1919, as industries to which certain regulations, promulgated by the Minister of Public Health in October, 1922, are applicable.

SPECIFICATION FOR LEATHER

For some time past the importation of leather into South Africa has been regulated by means of a specification defining "adulterated leather." In the tariff regulations issued in 1918 the following definition was used.

"Leather, other than roan, morocco, patent, enamelled and fancy leather, and valve hides, shall be deemed to be adulterated, weighted, or loaded if it contains :---

(1) when vegetable tanned—

- (a) over 2 per cent mineral ash.
- (b) over 1 per cent glucose.
- (c) any barium or lead salt.
- (d) any magnesium sulphate.

(2) when mineral or combination tanned—

- (a) over $1\frac{1}{2}$ per cent mineral ash other than tanning agent.
- (b) any glucose.
- (c) any barium or lead salt.
- (d) any magnesium sulphate."

"Adulterated" leather is subjected to a special import duty, viz. 6d. per lb., or 25 per cent *ad valorem*, whichever rate returns the higher duty.

Tanners in the United Kingdom who export leather to South Africa considered that such a definition was an impossible one, as leather from a pure mimosa bark tannage could not satisfy the definition laid down regarding magnesium sulphate, on account of the fact that the tannin agent itself contains magnesium. The United Tanners' Federation put forward accordingly the following proposals :---

- (a) In place of the figure of 1 per cent for glucose, $2\frac{1}{2}$ per cent.
- (b) In place of the entire prohibition of magnesium sulphate, either 11 per cent of magnesium sulphate or alternatively three-tenths of 1 per cent of magnesium oxide.

Such alterations, it was pointed out, would permit of the importation into South Africa of leather made from wattle bark, the use of which would naturally be seriously restricted if leather tanned almost entirely from it could be deemed to be "adulterated."

This subject was under consideration by the appropriate authorities when Mr. Hutchings (whose report is referred to above) was in South Africa in 1922, and he discussed the matter with the authorities. In a memorandum he submitted he referred to the possible effect of the adoption of the definition in the following terms :—

"Leathers vary greatly in analysis, and the effect is to penalise good leathers which would pass the English standard, but may just pass or just fail to pass that of the Union. I have a case of ten bales of one tannage of consecutive numbers 15 to 24. Of these numbers 16, 17, 20, and 24 were classed by the South African Customs as pure, and Nos. 15, 18, 19, 21, 22, and 23 were passed as adulterated.

"The effect is to put a premium on heavy adulteration. If this leather costs 24d. per lb. to produce the tanner must get 24s. to see his own again for a 12-lb. bend, but if he adds 1 lb. of loading at, say 6d., he produces a 13-lb. bend for 24s. 6d., or at a cost of 22.61d. per lb.

"If he adds $1\frac{1}{2}$ lb. at a cost of, say, od., he produces a $13\frac{1}{2}$ lb. bend for 24s. 9d., or at a cost of 22d. per lb. It is therefore an inducement if there is any doubt about passing the standard to load heavily enough to pay for the extra duty. I am told that considerable discretion is used before condemning a leather. In this case, unless the analysing authority is the same in all cases, there would be danger of variation in treatment which would be harmful."

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Subsequently the Union authorities introduced a Bill into the legislature on the subject and passed "The Adulterated Leather Act." This Act, reproduced in full in the Appendix, regulates not only the importation of leather, but also the production of leather in the Union. The chemical criterion referred to above, so far as vegetable-tanned leather is concerned, has been modified to read as follows :---

- (a) No barium or lead compound.
- (b) Not more than $2\frac{1}{2}$ per cent of mineral ash or not more than 2 per cent of glucose.

This modification is considered satisfactory, but it is also thought that technical difficulties may arise in the working of the Act, e.g. with regard to the taking of samples and method of analysis.

BOOTS AND SHOES

Boot manufacturing is one of the most prominent of South African industries, and one which has been much to the front in discussions in leather trade circles in the last few years on account of the policy of the Union Government regarding importation of boots and shoes. Statistics are available concerning production, etc., on the same comprehensive scale as in the case of the leather industry. Table G 17 gives many general particulars of boot factories. The number working increased from 58 in 1915-16 to 148 in 1921-22. Ninety-one of these are in Cape Colony, 35 in the Transvaal, and 20 in Natal. There are, however, few large factories; only 8 of the 48 employing more than 100 workpeople. The total number of employees in 1921-22 was 3,283, receiving £305,000 in wages, while the value of the fixed capital was £480,000. In 1915-16 and in 1916-17, when the value of the fixed capital was returned as £112,000 and £178,000 respectively, the total capital invested was returned as £255,000 and £379,000. Prices in the earlier of the periods mentioned had not risen much above pre-War, and it would appear, therefore, from these figures that rather less than one-half of the capital employed in boot manufacturing in South Africa is locked up in fixed assets. The corresponding figure for the tan-yard is less than one-third.

The total values of the materials used in 1915–16 and in 1921–22 were \pounds 324,000 and \pounds 738,000 respectively, the values of the corresponding products being \pounds 504,000 and \pounds 1,250,000. At the earlier date the proportion of materials used to output was 64 per cent, but for the later date it was 59 per cent, which proportions, like the corresponding ones in the case of tanneries, are below those holding in other countries for which the information is available.

The statistics collected since 1916 of the materials used in South African hoor factories (see Table G 18) enable a very comprehensive view of the

y to be obtained. Approximately 66 per cent of the materials used outh African origin, though this proportion shows a marked tendency being 78 per cent in 1916-17 and falling continuously to 66 per ars later. In the case of leather purchased by weight (mainly

sole leather) the proportion of imported leather shown in Table G 18 was extremely small in 1920-21-22, but it is probable that later figures will show a substantial increase of imported material. In the case of leather purchased by measurement (upper leather entirely), imports play a much greater part and have increased considerably, though at a rate rather below that at which the home-produced article has developed.

Particulars of the output of boots and shoes are available in equal detail and are shown in Table G 19. The total output in 1921-22 was 1,827,000 pairs, this comparing with 1,620,000 pairs in 1916-17, and 2,165,000 pairs in the year of maximum output (1919-20). Other articles in addition to footwear were manufactured, while a substantial amount of repair work was done. The value of the footwear production in comparison with the total value of all work done and articles manufactured in the three years mentioned was :---

			Footwear.	Total.
1916-17			663,000	727,000
1919-20		•	1,510,000	1,675,000
1921-22			1,105,000	1,254,000

Particulars of imports of boots, shoes and slippers into South Africa are given in considerable detail in the official returns, and are set out in Tables G 20, 21, 22, and 23. Practically all the imports come from the United Kingdom, the only substantial item from other countries being women's boots from Switzerland.

The tables referred to can be summarised as follows :---

							Pairs	s (000)
							1913	1922
Women'	s					•	1,695	1,045
Men's .				-	•		2,020	376
Children				•	•	•	1,300	269
Slippers		•		•	•	•	324	252
	To	tal		•	•	•	5,339	1,942
							Valu	e <u>(</u> (000)
Women'	s		•	•			374	654
Men's .						•	658	291
Children	's						186	88
Slippers		٠		•	•	•	28	39
								and Deleveration of the
	To	tal	•	•	•	•	1,246	1,072

The post-War figures show a very considerable decrease in comparison with those for 1913. Judged by the figures of exports of boots and shoes from the United Kingdom to South Africa in 1923, however, later figures when available will show a substantial increase on those for 1921 and 1922.

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There is a small export trade in boots and shoes (of which details are given in Table G 24), the figures for the three years being as follows :—

							Paus	Value (£)
1913	•	•		•			16,200	4,400
1921		•	•	•		•	51,200	37,800
1922	•	•	•	•	•	•	25,500	18,500

Making an estimate for the production in 1913 (from the data given for the years from 1915 onwards in Table G 19), the general position regarding boots and shoes can be summarised in approximate terms as follows :—

			Pairs (000)				
			1913	1921	1922		
Production .			1,000	1,660	1,830		
Imports .			5,340	1,120	1,940		
Exports .	•	•	20	50	30		
Consumption		•	6,320	2,730	3,740		

It will be seen from the last figures that the falling away in imports is by no means accounted for by increased production. No doubt there were considerable stocks available from the heavy importation in previous years for use in 1921 and 1922, but under all the circumstances it is difficult to estimate at all accurately the actual consumption of boots and shoes.

The corresponding figures for value are :---

			£(000)				
			1913	1921	1922		
Production .	•		400	1,080	1,120		
Imports .		•	1,250	740	1,070		
Exports .		•		40	20		
Consumption		•	1,650	1,780	2,170		

Details of the import tariff on boots and shoes are given in the Appendix on page ٩, 317, but reference may be made here to the vigorous controversies which have raged regarding this tariff. During the War the local boot factories produced in very considerable quantities for the use of the troops from South Africa, and this, together with the difficulty of obtaining imported boots, naturally led to extension of manufacturing capacity. When the depression came in 1921, not only was the import duty on boots raised, but a complete, though temporary, embargo was placed upon the importation of certain classes. When, in 1922, the original period of the embargo expired, considerable controversy occurred regarding future policy. The boot manufacturers on the one hand desired the continuation of the embargo; importers, on the other hand, represented by the Cape Chamber of Commerce, sought the removal of the embargo, claiming ourplus boots available in the country had been worked off. Ultiroclamation was issued which prohibited until June 30th, 1923, the n of boots except under permit by the Commissioner of Customs,

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and it was notified that, except under special circumstances, permits would not be issued for boots similar to those manufactured in the Union. An exhaustive list of such boots was published (Notice No. 1468, 5th September, 1922), and in this way importation was controlled until June, 1923. The embargo and the consequential licensing system were then abolished. It was decreed that the import duty of 30 per cent *ad valorem* (with a rebate of 3 per cent *ad valorem* in the case of British goods) should be retained for five years and should then be reduced by $2\frac{1}{2}$ per cent per annum until $17\frac{1}{2}$ per cent is reached, which will be the permanent level of the duty.

HARNESS AND SADDLERY AND LEATHER GOODS

The production of harness and saddlery is, relatively, more important in the Union than in any of the other Empire countries separately dealt with in this book. Statistics of production are available for the manufacture of harness and saddlery and leather goods. Table G 25 gives many general particulars of factories manufacturing harness and saddlery and leather goods. The number working increased from 54 in 1915–16 to 92 in 1918–19, and diminished to 87 in 1921–22; 39 of these are in Cape Colony and 27 in the Transvaal. Few of these factories, however, are large ones, only three employing more than fifty workpeople. The total number of employees in 1921–22 was only 970 in the 87 establishments, these receiving in all £99,000 in wages. The value of the fixed capital was £166,000. In 1915–16 and in 1916–17, when the fixed capital was returned as £61,000 and £76,000 respectively, the total capital invested was returned as £174,000 and £209,000. In these years, accordingly, about 36–38 per cent of the total capital employed in the manufacture of harness and saddlery and leather goods was locked up in fixed assets.

The total values of the materials used in 1915-16 and in 1921-22 were $\pounds_{124,000}$ and $\pounds_{144,000}$ respectively, the values of the corresponding products being $\pounds_{260,000}$ and $\pounds_{300,000}$, in each case the value of the materials being about 48 per cent of the value of the products.

Statistics of materials used in the industry are available since 1917 (see Table G 26). In 1917–18 nearly 60 per cent of the materials used were of local production, the figure for 1921–22 being 64 per cent. The imported goods, however, are mainly the accessories used in manufacture, the proportion of imported leather in 1921–22 being only 8 per cent.

Included in the factories referred to are some manufacturing boots and shoes in addition to other leather goods, and in Table G 27, which gives particulars of output, statistics of these are included. The main production, however, is harness and saddlery and portmanteaux and bags. The former item appears to be diminishing, though figures of value only are available, these showing a fall from $\pounds_{307,000}$ in 1919-20 to $\pounds_{152,000}$ in 1921-22; 22,300 leather bags were produced in 1920-21, of average value nearly \pounds_3 each, and 26,600 in 1921-22, of average value nearly \pounds_2 each.

Particulars of imports of harness and saddlery are given in Table G 28. In

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1913 the value totalled £70,000, practically all from the United Kingdom, but in 1922, 15 per cent of the total of £23,000 came from India. Corresponding figures of the imports of bags and trunks are shown in Table G 29 for 1922. In that year, 85 per cent of the total of £24,000 came from the United Kingdom. A substantial amount of leather belting is imported (see Table G 30), totalling £42,000 in 1922, the United States and the United Kingdom sharing equally in the supply. A considerable amount of leather manufactures not separately specified is imported, the total values under this head being £126,000 in 1913 and £65,000 in 1922, of which £102,000 and £59,000 respectively came from the United Kingdom (see Table G 31).

There is a small export of harness and saddlery from the Union (less than $\pounds 2000$ in 1913 and $\pounds 1000$ in 1922), but no exports of other leather manufactures (other than boots already referred to) are recorded.

Making an estimate for 1913, the general position regarding leather manufactures other than boots can be summarised approximately as follows :—

				Value £(000)				
			1913	1921	1922			
Production .			250	310	240			
Imports .	•	•	196	135	154			
Exports .		•	2	3	I			
Consumption	•	•	440	440	390			

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SOUTH AFRICA

TABLE G 1

PARTICULARS AND NUMBER OF CATTLE AT 30TH APRIL, 1921

Cattle, under 1 year 1,001,268 ,, 1 year and under 2 years Bulls, 2 years and over	over 2,263,778
	Total 8,557,089
NUMBER OF SHEEP	AT 30TH APRIL, 1921
Merino sheep . 20,756,130 ,, lambs . 4,998,433 Other woolled sheep 1,462,752 ,, lambs . 392,304 Woolled sheep (including lambs) 147,594 Persian ,, (non-woolled) . 780,646	Africander sheep 2,333,483 ,, lambs 588,714 Non-woolled sheep (including
NUMBER OF MULES, DONKEYS	AND GOATS AT 30TH APRIL, 1921
Mules	Goats of various types 7,836,696 Total 8,675,723

TABLE G 2

EXPORTS OF WET OX- AND COW-HIDES

Total Exports : Included in G 4 for 1913, 8,021,900 lb. $(\pounds 193,122)$ in 1922. To Empire Countries : Included in G 4 for 1913, 3,300,880 lb. $(\pounds 80,527)$ in 1922. (United Kingdom) : Included in G 4 for 1913, 3,298,700 lb. $(\pounds 80,474)$ in 1922. To Foreign Countries : Included in G 4 for 1913, 4,721,020 lb. $(\pounds 112,595)$ in 1922. (Belgium) : Included in G 4 for 1913, 9,68,430 lb. $(\pounds 21,646)$ in 1922. (France) : Included in G 4 for 1913, 4,344,642 lb. $(\pounds 58,826)$ in 1922. (Germany) : Included in G 4 for 1913, 4,324,834 lb. $(\pounds 114,546)$ in 1922. (United States) : Included in G 4 for 1913, 492,834 lb. $(\pounds 114,546)$ in 1922.

TABLE G 3

EXPORTS OF DRY OX- AND COW-HIDES

Total Exports : Included in G 4 for 1913, 10,013,328 lb. $(\pounds 283,269)$ in 1922. To Empire Countries : Included in G 4 for 1913, 7,811,539 lb. $(\pounds 215,697)$ in 1922. (United Kingdom) : Included in G 4 for 1913, 7,811,539 lb. $(\pounds 215,697)$ in 1922. To Foreign Countries : Included in G 4 for 1913, 2,201789 lb. $(\pounds 67,572)$ in 1922. (Belgium) : Included in G 4 for 1913, 456,551 lb. $(\pounds 11,950)$ in 1922. (Germany) : Included in G 4 for 1913, 1,627,235 lb. $(\pounds 51,180)$ in 1922.

¹ These particulars are as set out in the Report on the Census of Agriculture. The numbers in the classes specified do not add up to the total stated.

EXPORTS OF OX- AND COW-HIDES (TOTAL)

- Total Exports: 21,279,840 lb. (£794,937) in 1913, 18,033,000 lb. (£476,391) in 1022.
- To Empire Countries: 19,870,393 lb. (£,743,417) in 1913, 11,111,000 lb. $(f_{296,224})$ in 1922.
- (United Kingdom): 19,831,843 lb. (£741,162) in 1913, 11,019,000 lb. (£296,171) in 1022.

To Foreign Countries : 1,409,447 lb. (£51,520) in 1913, 6,922,000 lb. (£180,167) in 1022.

(Belgium): 271,504 lb. (£9,037) in 1913, 1,424,000 lb. (£33,596) in 1922.

 $\begin{array}{l} (France): 1,819 \ \text{lb.} (\pounds 37) \ \text{in} \ 1913, 2,351,000 \ \text{lb.} (\pounds 59,076) \ \text{in} \ 1922. \\ (Germany): 562,476 \ \text{lb.} (\pounds 15,111) \ \text{in} \ 1913, 2,119,000 \ \text{lb.} (\pounds 62,643) \ \text{in} \ 1922. \\ (United \ States): 460,681 \ \text{lb.} (\pounds 22,674) \ \text{in} \ 1913, 681,000 \ \text{lb.} (\pounds 16,042) \ \text{in} \ 1922. \end{array}$

The number of hides and skins for 1913 are as follows :----

Hides, ox- and cow-, 883,503; goatskins, 3,159,736; sealskins, 9,901; sheepskins, 7,369,891.

The number of hides and skins for 1922 are as follows :---

Hides, ox- and cow-, 613,936; goatskins, 2,155,216; sealskins, 12,766; sheepskins, 7,719,091.

TABLE G 5

EXPORTS OF SHEEPSKINS

- Total Exports : 32,196,400 lb. (£889,611) in 1913, 38,989,200 lb. (£1,237,828) in 1922.
- To Empire Countries: 30,902,373 lb. (£842,775) in 1913, 23,440,994 lb. (£808.018) in 1922.
- (United Kingdom): 30,892,035 lb. (£842,501) in 1913, 23,385,259 lb. (£806,190) in 1022.

(Canada): 10,338 lb. (£274) in 1913, 55,735 lb. (£1,828) in 1922.

- To Foreign Countries : 1,294,027 lb. (£46,836) in 1913, 15,548,206 lb. (£429,810) in 1922.

(France): 377,857 lb. (£8,913) in 1913, 10,495,297 lb. (£278,365) in 1922. (Germany): 36,046 lb. (£1,267) in 1913, 300,244 lb. (£6,093) in 1922. (United States): 862,854 lb. (£36,201) in 1913, 4,592,296 lb. (£141,112) in 1022.

(Holland): None in 1913, 145,193 lb. (£3,658) in 1922.

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EXPORTS OF GOATSKINS

- Total Exports : 9,104,691 lb. (£325,936) in 1913, 6,287,205 lb. (£216,879) in 1922.
- To Empire Countries : 9,012,935 lb. (£322,948) in 1913, 4,274,372 lb. (£141,299) in 1922.
- (United Kingdom): 9,005,990 lb. (£322,557) in 1913, 4,264,075 lb. (£140,877) in 1922.
- To Foreign Countries : 91,756 lb. (£2,988) in 1913, 2,012,833 lb. (£75,580) in 1922.

(France): 23,077 lb. (£1,009) in 1913, 202,839 lb. (£10,267) in 1922.

(Germany): 54 lb. (£4) in 1913, 566,225 lb. (£11,105) in 1922.

(Holland): None in 1913, 188,093 lb. (£6,731) in 1922.

(United States): 68,000 lb. (£1,942) in 1913, 1,043,513 lb. (£46,999) in 1922.

TABLE G 7

EXPORTS OF SEALSKINS

Total Exports : 153,355 lb. (£5,822) in 1913, 146,746 lb. (£14,034) in 1922. To Empire Countries : 153,115 lb. (£5,774) in 1913, 146,746 lb. (£14,034) in 1922.

(United Kingdom): 153,115 lb. (£5,774) in 1913, 146,746 lb. (£14,034) in 1922.

 Γ o Foreign Countries : 240 lb. (£48) in 1913, none in 1922.

TABLE G 8

EXPORTS OF WATTLE BARK

- Total Exports : 145,717,738 lb. (£309,329) in 1913, 271,716,264 lb. (£799,942) in 1922.
- [o Empire Countries: 108,123,508 lb. (£226,132) in 1913, 67,151,527 lb. (£200,800) in 1922.
- United Kingdom): 99,203,808 lb. (£208,192) in 1913, 57,571,917 lb. (£173,925) in 1922.

Australia): 8,871,278 lb. (£17,845) in 1913, 7,591,797 lb. (£21,033) in 1922.

India): None in 1913, 1,056,926 lb. (£3,220) in 1922.

Egypt): 586,959 lb. (£1,127) in 1913, 574,649 lb. (£1,477) in 1922.

'o Foreign Countries : 37,594,230 lb. (£83,197) in 1913, 204,564,737 lb. (£599,142) in 1922.

fapan) : None in 1913, 13,303,425 lb. (£41,390) in 1922.

Belgium): 900,109 lb. (£2,173) in 1913, 6,767,751 lb. (£18,571) in 1922.

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(France): 2,124,703 lb. $(\pounds4,237)$ in 1913, 5,481,681 lb. $(\pounds16,539)$ in 1922. (Germany): 30,745,850 lb. $(\pounds68,318)$ in 1913, 147,461,826 lb. $(\pounds433,400)$ in 1922.

(United States): 228,246 lb. (£535) in 1913, 20,018,848 lb. (£55,657) in 1922. (Holland): None in 1913, 6,952,599 lb. (£19,808) in 1922.

(Spain): None in 1913, 2,253,360 lb. (£6,920) in 1922.

TABLE G o

EXPORTS OF BARK EXTRACT

Total Exports : None in 1913, 24,341,472 lb. (£203,197) in 1922. To Empire Countries : None in 1913, 13,279,899 lb. $(\pounds_{111,272})$ in 1922. (United Kingdom) : None in 1913, 13,068,823 lb. $(\pounds_{109,467})$ in 1922. (Australia): None in 1913, 147,767 lb. (£1,222) in 1922.

To Foreign Countries : None in 1913, 11,061,573 lb. (£91,925) in 1922.

(United States): None in 1913, 229,367 (\pounds , \pounds , 230) in 1922. (Belgium): None in 1913, 929,697 lb. (\pounds 8,779) in 1922. (France): None in 1913, 396,431 lb. (\pounds 2,963) in 1922.

(*Germany*): None in 1913, 8,262,759 lb. (f68,912) in 1922. (*Holland*): None in 1913, 785,695 lb. (f61,57) in 1922. (*Italy*): None in 1913, 192,437 lb. (f1,443) in 1922.

(*Yapan*): None in 1913, 136,878 lb. (£1,196) in 1922.

(Spain): None in 1913, 226,440 lb. (f, 2, 020) in 1922.

TABLE G 10

AREA UNDER WATTLES, 1922

	Age. Under and including 1 yea:						Cape morgen	Natal morgen.	Transvaal morgen	C.F.S morgen.	Total morgen.
							129	7,258	598		7,985
1 year and under 2 years .							34	6,632	1,089	I	7,756
2	,,	,,	3	,,	•		210	6,004	955		7,169
	,,	,,	4	,,	·	•	135	5,278	1,055	7	6,475
	,,	,,	5	,,	•	•	73	5,430	1,463		6,966
5 6	,,	,,	6	,,	٠		32 88	7,012	476	12	7,532
	,,	,,	7	,,	٠		88	6,225	692	5	7,010
7 8	,,	"	8	,,	٠	•	101	7,548	1,036	3	8,688
	,,	,,	9	,,	•	· •	24	8,692	1,090	10	9,816
	,,	,,	10	,,	•	•	130	7,306	968	62	8,466
10 and	over	•			٠	•	838	15,951	3,242	10	20,041
	-										
T	otals	•		•	•	·	1,794	83,336	12,664	110	97,904

(Morgen equals 2.12 acres)

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SOUTH AFRICA

TABLE G 11

GENERAL PARTICULARS OF TANNERIES IN SOUTH AFRICA

	Number of Tanneries.	Value of Land and Buildings.	Value of Machinery, Plant and Tools.	Number of Employees	Amount of Salaries and Wages paid.	Articles Manufactured or Produced	Value added to Materials by Process of Manufacture or Treatment.
		£	£		£	£	£
1915–16 .	19	79,391	40,432	799	55,067	475,862	136,488
1916-17 .	23	88,126	45,768	920	62,539	605,761	147,215
1917-18 .	25	118,859	52,669	1,245	87,567	963,688	282,488
1918-19 .	28	153,326	68,020	1,409	100,605	1,005,662	264,594
1919-20 .	31	163,664	81,970	1,579	122,215	1,393,798	377,114
1920-21 .	30	172,900	100,405	1,373	116,127	831,963	268,071
1921–22 .	30	177,000	116,000	1,335	128,150	687,000	257,381

TABLE G 12

Materials Used in Tanneries in South Africa (Ton=2,000 lb.)

	Calf and Yearling Hides.	Other Hides.	Calf and Yearling Hides	Other Hıdes.	Sheep- skins.	Goai- skins.	Other Skins.	Sheep- skins	Goat- skins.	Other Skins.	1
	Tons.	Tons.	£	£	No.	No.	No.	£	£	£	
)15-16		-	270,413		-						
JI6-I7			365,743		85,515			19,320			
)17 - 18	999	4,780	101,846	446,811	57,926	67,509	5,290	10,725	19,653	1,084	
)18–19	37	5,838	4,308	582,468		56,754	13,681	9,530		3,168	
)19-20	68	5,849	10,878	801,406		37,847	15,980	29,166			
)20-21	343	4,512	27,941	390,175	85,250	38,773	8,779	8,680	9,928	1,156	
21-22		275	294		103,000	41,000	29,000	10,000	6,000	4,000	53

	Vattle Bark.	Wattle Bark Extract.	Other Vegetable Tanning Materials.	Mineral Tanning Materials.	Lime and other Materials used in Liming.	Oil, Fat, Tallow and other Materials.	Dyeing Materials.	Other Materials (including packing).	
Tons.	£	£	£	£	£	£	£	£.	
.,000	22,683		-			Page 10		46,278	
1,371	27,091		12,016	9,104	4,711	10,904	2,387	7,270	ć
,267	30,288	1,730	15,161	10,943	5,972		4,111	7,5 ⁸ 7	
959	33,528	2,479	22,977	13,644	6,121	24,286	6,444	12,165	
,131	45,730	4,488	33, ⁸ 75	18,077	5,722	27,701	7,220	13,226	,
.,833	40,045	4,765	20,064	16,460	3,943	20,539	6,042	14,144	í.
,590	28,000	5,000	24,000	14,000	6,000	18,000	6,000	15,000	

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TABLE G 12-continued

	Total Value (cost) of Materials used.	Value of S.A Materials used	Value of imported materials used, لح
1915-16.	339,374	295,277	44,097
1916-17 .	458,546	422,299	36,247
1917-18.	681,200	629,225	51,975
1918-19.	741,069	665,757	75,311
1919-20 .	1,016,684	920,924	95,760
1920-21 .	563,892	500,357	63,535
1921-22	430,000	365,000	65,000

TABLE G 13

ARTICLES MANUFACTURED OR PRODUCED IN TANNERIES

			Sole Le	ATHER		Upper Leather.					
i et		Vege- table tanned	Chrome tanned	Vege- table tanned.	Chrome tanned	Vege- table tanned	Chrome tanned	Vege- table ianned	Chrome tanned.	Leather I including Bridle, J Saddle, Sl other Le	Straps, Rein, art, and
>											,
		Ib	lb	£	£	1b	1Ь	£	£	1Ь	£
	1915–16										
*	1916-17	3,249,843	152,708	308,226	28,417	1,053,448	212,233	133,300	19,513	460,878	55,558
	1917–18	4,168,256	321,727	445,997	51,532	1,462,380	559,395	215,619	49,465	541,278	92,823
	1918-19	4,297,903	269,789	460,674	57,120	1,441,161	176,967	221,798	48,990	645,316	103,027
	1919-20	5,349,405	462,018	644,610	105,460	1,385,081	454,334	273,136	48,313	1,066,445	188,118
	1920-21	3,513,547	477,205	401,807	67,375	746,471	629,361	124,856	81,227	707,811	96,207
	1921-22	4,037,000	437,000	350,000	59,000	634,000	464,000	82,000	73,000	620,000	72,000

Other Leather		, Ski	ns	Total value of articles Manufactured	Total value of Vegetable Tanned leather.	Total value of chrome tanned Leather Produced.
1b. 328,509 644,022 385,922 393,503	£ 455,154 28,290 58,068 42,952 57,574	No 83,631 110,562 124,081 126,300	£ 28,772 42,075 42,535 42,322	£ 475,862 605,761 963,688 1,005,662 1,393,798	£ 441,526 802,081 860,951 1,162,799	£ 47,930 100,997 116,553 154,412
237,144 217,000	23,323 17,000	78,477 66,000	23,881 18,000	831,963 687,000	642,263	152,532

TABLE G 14

IMPORTS OF ENAMELLED, MOROCCO, AND PATENT LEATHER IN THE PIECE Total Exports : 56,351 lb. $(\pounds 9,614)$ in 1913, 24,247 lb. $(\pounds 10,314)$ in 1922. From Empire Countries : 21,995 lb. $(\pounds 4,084)$ in 1913, 14,515 lb. $(\pounds 5,389)$ in 1922. (United Kingdom) : 20,637 lb. $(\pounds 3,948)$ in 1913, 9,488 lb. $(\pounds 2,889)$ in 1922. (Canada) : None in 1913, 3,222 lb. $(\pounds 1,954)$ in 1922.

From Foreign Countries : 34,356 lb. (£5,530) in 1913, 9,732 lb. (£4,925) in 1922. (United States) : 33,950 lb. (£5,463) in 1913, 6,452 lb. (£3,640) in 1922.

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IMPORTS OF PIGSKIN LEATHER IN THE PIECE

Total Imports : 49,905 lb. $(\pounds7,756)$ in 1913, 4,320 lb. $(\pounds1,365)$ in 1922. From Empire Countries : 9,100 lb. $(\pounds2,245)$ in 1913, 3,062 lb. $(\pounds1,082)$ in 1922. (United Kingdom) : 9,100 lb. $(\pounds2,245)$ in 1913, 3,062 lb. $(\pounds1,082)$ in 1922. From Foreign Countries : 40,805 lb. (£5,511) in 1913, 1,258 lb. (£283) in 1922. (Austria-Hungary): 39,435 lb. (£5,263) in 1913, none in 1922.

TABLE G 16

IMPORTS OF OTHER KINDS OF LEATHER IN THE PIECE

- Total Imports : 2,652,326 lb. (£196,281) in 1913, 787,663 lb. (£158,684) in 1922.
- From Empire Countries : 2,596,575 lb. (£191,370) in 1913,748,292 lb. (£143,760) in 1022.
- United Kingdom): 1,212,315 lb. (£99,286) in 1913, 524,799 lb. (£103,483) in 1022.
- Australia): 1,382,461 lb. (£91,970) in 1913, 217,070 lb. (£39,370) in 1922.
- rom Foreign Countries : 55,751 lb. (£4,911) in 1913, 39,371 lb. (£14,924) in 1022.
- France): 1,775 lb. (£313) in 1913, 4,179 lb. (£1,595) in 1922.
- Germany: 7,954 lb. (£914) in 1913, 4,257 lb. (£2,689) in 1922. United States): 40,490 lb. (£3,307) in 1913, 16,224 lb. (£6,690) in 1922.
- Switzerland): None in 1913, 13,097 lb. (£3,425) in 1922.

TABLE G 17

ENERAL PARTICULARS OF BOOT AND SHOE FACTORIES AND REPAIRING ESTABLISHMENTS

			Number of Factories.	Value of Land and Buildings.	Value of Machinery, Plant and Tools.	Number of Employees.	Amount of Salaries and Wages Paid.	Articles Manufactured or Produced.	Value added to Materials by Process of * Manufacture or Treatment.
				£	£		£	£	
5–16 6–17			58	57,993	54,253	1,662	98,842	503,999	
6-17			104	91,107	86,516	2,388	129,398	726,712	
7–18	•		120	108,087	94,594	2,644 🕻	161,315	965,550	
3-19			138	153,415	141,766	3,399	238,759	1,291,765	
)-20			147	191,931	192,649	3,630	302,189	1,674,598	
2-21			146	210,040	265,526	2,954	277,925	1,191,206	
[-22	•	•	148	236,000	241,000	3,283	304,519	1,250,000	

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LEATHER, HIDES, AND SKINS

TABLE G 18

Mater	MATERIALS USED IN BOOT		AND SHOE FACTORIES AND			REPAIRING	ESTABLISH	MENTS	
		Leather b	y Weight.		L	Leather by Measurement.			
		African	Impo	rted.		South African		ted.	
	15	£	Ib. £		Sq ft.	£	Sq. ft	e t	
1916-17	2,695,017		277,209	36,874	352,483	24,404	276,169	18,435	
1917–18	3,907,738	429,511	219,201	24,801	333,776	31,328	552,007	48,667	
1918–19	4,403,955	555,250	110,165	12,178	617,965	61,231	972,853	95,684	
1919–20	4,645,255	641,861	102,502	18,401	1,209,154	127,923	1,121,330	150,468	
1920–21	3,289,732	419,274	64,109	11,964	1,122,022	95,909	959,275	112,976	
1921–22	4,055,000	354,000	27,000	5,000	1,734,000	111,000	1,214,000	120,000	
Uppers and Cut Soles purchased South African Imported.		Total Value of Materna used (4 498,8 636,1 864,9 1,116,3 779,3 738,0	all ils (79 73 55 70 43	Value of S.A Matenals £ 388,327 484,796 653,946 805,466 538,945 486,000	Value c Vegetab Tanned Le <u><u>£</u> 350,93 584,32 664,23 462,53</u>	le- Chron ather. Le 31 7 70 16 59 31	alue of ne-Tanned aather £ 22,573 12,382 66,782 12,793		

TABLE G 19

Articles Manufactured or Produced in Boot and Shoe Factories and Repairing Establishments

Boots ar	Boots and Shoes.		Shppers		Veldschoens.		Leggings and Gaiters.		Boot and Shoe Uppers for sale as such.	
Pairs.	£	Pairs.	£	Pairs	£	Pairs.	£	Pairs.	¥	
1915–16 — 1916–17 1,151,599	493,044 546,918	 44,050	 10,199	425,530	 106,272	4,838	 4,224			
1917–18 1,291,105 1918–19 1,629,637		123,813	51,616	350,853	106,515	4,800	5,650	1,452 61,968	592 17,945	
1919-20 1,806,917	1,383,856	42,869	14,800	315,243	110,549	3,800	3,600	73,444	29,425	
1920–21 1,308,135 1921–22 1,572,000	978,438 1,025,000	41,730 24,000	15,242 8,000	156,196 231,000	58,365 72,000	3,415 4,000		34,409 79,000	15,525 19,000	

-	Parts of Boots and Shoes other than Uppers.	Harness and Saddlery	Other Articles Manufactured	Value of Repair Work done for Customers.	Total Value of Articles Manufactured and Work Done.	
	£	<u>£</u>	£ 23,628 9,849 8,894 20,721 16,284 29,000	£ 10,955 35,418 42,864 56,621 80,650 84,785 85,000	ź 503,999 726,712 965,550 1,291,765 1,674,598 1,191,206 1,250,000	ŧ

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IMPORTS OF BOOTS AND SHOES (CHILDREN'S)

- Total Imports : 1,299,982 pairs (£186,136) in 1913, 269,437 pairs (£87,864) in 1022.
- From Empire Countries: 1,267,528 pairs (f.181,958) in 1913, 257,678 pairs (f, 83, 348) in 1922.
- (United Kingdom): 1,257,459 pairs (£181,953) in 1913, 256,698 pairs (£83,216) in 1922.
- From Foreign Countries: 32,454 pairs ($f_{,4,178}$) in 1913, 11,759 pairs ($f_{,4,516}$) in 1022.
- (Switzerland): 6,639 pairs (f,1,310) in 1913, 8,081 pairs (f,3,545) in 1922.

TABLE G 21

IMPORTS OF BOOTS AND SHOES (WOMEN'S)

- Total Imports : 1,694,000 pairs (£374,395) in 1913, 1,044,000 pairs (£654,099) in 1022.
- From Empire Countries : 1,527,306 pairs (£332,363) in 1913, 884,230 pairs $(f_{529,432})$ in 1922.
- (United Kingdom): 1,527,192 pairs (£332,339) in 1913, 877,629 pairs (£528,024) in 1922.
- From Foreign Countries: 167,437 pairs (£42,032) in 1913, 128,426 pairs $(f_{80,164})$ in 1922.
- Austria-Hungary): 46,245 pairs (£9,095) in 1913, 6,203 pairs (£4,477) in 1022.

- Belgium): 76 pairs (£30) in 1913, 1,570 pairs (£2,405) in 1922. France): 6,648 pairs (£661) in 1913, 4,927 pairs (£3,413) in 1922. Switzerland): 49,909 pairs (£13,578) in 1913, 111,176 pairs (£76,879) in 1922. United States): 35,042 pairs (£15,481) in 1913, 32,000 pairs (£35,485) in 1922.

TABLE G 22

IMPORTS OF BOOTS AND SHOES (MEN'S)

- 'otal Imports : 2,019,000 pairs (£657,686) in 1913, 376,000 pairs (£291,238) in 1922.
- rom Empire Countries: 1,934,000 pairs (£627,559) in 1913, 363,000 pairs $(f_{278,000})$ in 1922.
- United Kingdom) : 1,934,000 pairs (£627,528) in 1913, 361,000 pairs (£277,453) in 1022.

- rom Foreign Countries : 85,000 pairs (£30,127) in 1913, 13,000 pairs (£13,238) in 1922.
- Inited States): 44,000 pairs (£25,297) in 1913, 7,000 pairs (£8,164) in 1922.

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IMPORTS OF SLIPPERS

Total Imports : 323,716 pairs (£28,278) in 1913, 252,142 pairs (£39,294) in 1922. From Empire Countries : 249,739 pairs (£22,604) in 1913, 229,144 pairs

- (£35,318) in 1922.
- (United Kingdom): 249,501 pairs (£22,586) in 1913, 228,603 pairs (£35,168) in 1922.

From Foreign Countries : 73,977 pairs (£5,674) in 1913, 22,998 pairs (£3,976) in 1922.

(France): 16,126 pairs (£1,127) in 1913, 5,775 pairs (£1,009) in 1922.

(Germany): 19,664 pairs (£1,722) in 1913, 9,364 pairs (£1,464) in 1922.

(United States): 3,806 pairs (£396) in 1913, 5,208 pairs (£1,048) in 1922.

TABLE G 24

EXPORTS OF BOOTS AND SHOES (GRAND TOTALS)

Total Exports : 16,155 pairs (£4,376) in 1913, 25,476 pairs (£18,514) in 1922. To Empire Countries : 4,631 pairs (£782) in 1913, 6,061 pairs (£3,561) in 1922. (United Kingdom) : 4,512 pairs (£684) in 1913, 5,400 pairs (£2,973) in 1922.

To Foreign Countries: 11,524 pairs (£3,594) in 1911, 19,415 pairs (£14,953) in 1922.

(Belgian Congo): 8,600 pairs ($\pounds 2,775$) in 1913, 16,441 pairs ($\pounds 11,327$) in 1922. (Portuguese East Africa): 107 pairs ($\pounds 62$) in 1913, 1,428 pairs ($\pounds 1,063$) in 1922. (United States): Not known in 1913, 1,450 pairs ($\pounds 2,504$) in 1922.

TABLE G 25

GENERAL PARTICULARS OF HARNESS AND SADDLERY WORKS, LEATHER PORTMANTEAU AND BAG FACTORIES

	à					Value of		Amount of	Articles	Value added to Materials
					Value of	Machinery,	No of	Salaries	Manufac-	by Process of
				No of	Land and	Plant	Em-	and Wages	tured or	Manufacture
				Factories.	Buildings	and Tools.	ployees.	Paid.	Produced,	or Treatment.
					£	£		£	£	£
	1915–16	•	•	54	52,933	8,449	820	62,009	260,027	135,987
	1916–17	•	•	75	63,620	12,463	1,097	75,364	320,356	164,446
я.	1917–18	•	•	87	98,778	15,690	1,133	75,384	345,690	179,963
,	1918–19		•	92	127,948	18,033	1,265	96,247	366,879	188,555
	191920	•		92	136,285	16,993	1,378	131,960	471,028	223,107
	1920–21	•		87	139,392	17,879	1,164	119,301	366,347	179,172
*	1921–22	•	•	87	147,000	19,000	970	99,060	300,000	156,000

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MATERIALS USED IN HARNESS AND SADDLERY WORKS, LEATHER PORTMANTEAU AND BAG FACTORIES

	I	Leather by Measurement				Total Value of all	Value of S A	Value of Vege- table-	Value of Chrome-			
	South African.		Imported		South African.		Imported.		Materials used	Maie- rials	Tanned Leather	Tanned Leather.
)17-18)18-19)19-20)20-21)21-22	911,098 1,143,470	109,738 162,862 108,803	lb 119,634 149,628 93,785 69,902 51,000	22,429 22,542	sq fi 1,037 7,777 19,803 32,998 83,000	£ 511 2,145 2,374 4,000	sq ft 972 51,750 4,081 30,512 9,000	£ 15,107 7,739 2,238 1,000	£ 165,727 178,324 247,921 187,175 144,000	£ 100,811 114,937 171,563 121,418 92,000	£ 72,531 138,075 182,389 123,091	£ 4,957 2,806 4,776 2,810

TABLE G 27

Articles Manufactured in Harness and Saddlery Works and Leather Portmanteau and Bag Factories

Boots and Shoes,	Shppers.	Veld- schoens,	Leggings and Gaiters.	Leather Portman- teaux and Bags.	Har- ncss andSad- dle1y.	Lea- ther Laces.	Other Articles Manu- factured	Value of Repair Work done.	Total Value of Articles Manu- factured and work done.
Pairs f. 17-18 11,408 5,889 18-19 8,078 4,295 19-20 12,058 9,392 20-21 4,542 3,430 21-22 11,522 5,000	I I 24I 115	3,500 3,500 7,383 4,947 4,713 2,366	Pairs. £ 5,000 4,500 5,000 5,000 1,009 1,509 1,429 1,396 2,042 1,000	- 30,549	208,785	9,803	£ 27,754 27,425 23,150 30,179 32,000	£ 45,398 53,411 59,251 54,849 58,000	345,690 360,879 471,028 366,347 300,000

TABLE G 28

IMPORTS OF SADDLERY AND HARNESS

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Total Imports : $\pounds 69,587$ in 1913, $\pounds 22,877$ in 1922. From Empire Countries : $\pounds 68,524$ in 1913, $\pounds 20,850$ in 1922. (United Kingdom) : $\pounds 68,202$ in 1913, $\pounds 17,034$ in 1922. (India) : $\pounds 40$ in 1913, $\pounds 3,472$ in 1922. From Foreign Countries : $\pounds 1,063$ in 1913, $\pounds 2,027$ in 1922. (United States) : $\pounds 635$ in 1913, $\pounds 1,377$ in 1922.

IMPORTS OF BAGS AND TRUNKS

Total Imports : Not known in 1913, £23,938 in 1922. From Empire Countries : Not known in 1913, £21,232 in 1922. (United Kingdom) : Not known in 1913, £20,539 in 1922. From Foreign Countries : Not known in 1913, £2,706 in 1922. (Germany) : Not known in 1913, £2,257 in 1922.

TABLE G 30

IMPORTS OF LEATHER BELTING

Total Imports : Not known in 1913, £41,642 in 1922. From Empire Countries : Not known in 1913, £21,382 in 1922. (United Kingdom) : Not known in 1913, £18,973 in 1922. (Dominion of Canada) : Not known in 1913, £2,304 in 1922. From Foreign Countries : Not known in 1913, £20,260 in 1922. (United States) : Not known in 1913, £19,124 in 1922.

TABLE G 31

IMPORTS OF LEATHER MANUFACTURES NOT OTHERWISE SPECIFIED

Total Imports : $\pounds_{126,135}$ in 1913, $\pounds_{64,888}$ in 1922. From Empire Countries : $\pounds_{102,225}$ in 1913, $\pounds_{50,133}$ in 1922. (United Kingdom) : $\pounds_{101,962}$ in 1913, $\pounds_{58,609}$ in 1922. (Australia) : \pounds_{215} in 1913, $\pounds_{1,247}$ in 1922. From Foreign Countries : $\pounds_{23,910}$ in 1913, $\pounds_{4,755}$ in 1922. (Germany) : $\pounds_{19,337}$ in 1913, $\pounds_{1,635}$ in 1922. (United States) : $\pounds_{2,161}$ in 1913, $\pounds_{2,070}$ in 1922.

TABLE G 32

IMPORTS OF GREASES AND OTHER SUBSTANCES FOR BATING, TANNING AND FINISHING OF LEATHER

Total Imports : Not known in 1913, £4,610 in 1922. From Empire Countries : Not known in 1913, £3,799 in 1922. *Enited Kingdom*) : Not known in 1913, £3,799 in 1922. From Foreign Countries : Not known in 1913, £811 in 1922. (United States) Not known in 1913, £649 in 1922.

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TABLE G 33

In addition to the particulars of imports and exports set out above, there are certain other imports and exports of interest, but the magnitude of these is too small to need separate tables. The particulars, however, are as follows :---

Imports of	fShee	nekin	e and i	Coate	bing	£	Imports o	f Gar	nhier				£
-	i once	Pom	o and .	Juan			*	i Gai	indici .				
1913	·	•	•		•	5,000	1913	•	•	•	•	•	200
1921	·	•	•	•	•	800	1921	•	•	•	•	•	200
1922				•		1,100	1922				•		500
Imports o	f Hid	es and	l Skin	s:			Imports of	f Tan	ning I	Bark :			-
1913	•		•			7,700	1913		•				
1921	•			•		10,200	1921						900
1922						5,500	1922						
Imports of	f Valc	onia :				0.0	Imports of Sealskins :						
1913	•					200	1913						100
1921	•		•	•		500	1921						
1922						1,000	1922						····· '
mports of	f Sum	ach :					Exports of Saddlery and Harness :						
1913	•					200	1913						2,000
1921	•					500	1921						2,700
1922						200	1922						300
mports of		Exports of Leather not made up :						Ũ					
1913	•			•		400	1913				•		200
1921			•			2,400	1921						2,700
1922	•	•	•	•	•	3,300	1922	•	•				3,600

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APPENDIX I

TEXT OF CLAUSE RELATING TO IMPORTED LEATHER

ACT

To prohibit the manufacture or sale within, or the importation into, the Union of adulterated leather, and to make provision for other matters in connection with such prohibition. Be it enacted by the King's Most Excellent Majesty, the Senate and the House of Assembly of the Union of South Africa, as follows :---

- I. The provisions of this Act shall apply only to sole leather, to leather which (in the piece) is sold or bought by weight, and to the leather soles of footwear: provided, however, that nothing in this Act contained shall apply to any such leather manufactured or imported for any specific purpose to which special exemption from the provisions of this Act may have been granted by the Governor-General.
- 2. (1) For the purposes of this Act adulterated leather shall mean leather to which the provision of this Act applies when it contains :---
 - (a) Any barium or lead compound; or
 - (b) if vegetable tanned :
 - (i) more than two-and-a-half per cent of mineral ash; or
 - (11) more than two per cent of glucose.
 - (c) If mineral tanned :
 - (i) more than two per cent of mineral ash other than the mineral tanning agent ; or
 - (1) more than one-half per cent of glucose.
 - (d) If tanned by vegetable and mineral agents combined :
 - (1) more than two per cent of mineral ash other than the mineral tanning agent ; or
 - (ii) more than one-and-a-half per cent of glucose.
 - (2) The Governor-General may, by proclamation in the Gazette, from time to time vary the definition of adulterated leather given in sub-section (1) of this section by the addition thereto or withdrawal therefrom of prohibited or restricted ingredients or the alteration of the percentages of restricted ingredients.
- 3. (1) No person shall :

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- (a) import into the Union any adulterated leather or soles for footwear made of adulterated leather;
- (b) manufacture, or cause or permit to be manufactured, or sell, keep for sale, or cause or permit to be sold within the Union adulterated leather.
- (2) Every tanner in the Union shall cause his name to be imprinted on all sole leather prepared by him, and shall in all invoices, in respect of such leather, certify that such leather conforms to the requirements of this Act.
- (3) Any person who contravenes this section shall be guilty of an offence and liable on conviction to a fine not exceeding one hundred pounds for the first offence, and not exceeding two hundred pounds, for a second or subsequent offence. The court which convicts the offender may order any article the subject of the offence to be forfeited and destroyed or otherwise disposed of.

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- 4. (I) If he has reason to suspect that adulterated leather is being manufactured or kept for the purpose of sale in any premises, the Minister of Mines and Industries, or any Minister acting for hum, may at any time authouse any person to enter upon such premises and examine any place, receptacle or package found thereon.
 - (2) The person so authorised and entering upon any premises as aforesaid may purchase at a reasonable price a sample, for the purpose of analysis, of any leather found therein. The purchased sample shall be dealt with as is provided in section six.
 - (3) If the occupier of the premises or the owner of the leather refuses, either by himself or his agent or servant, to sell a sample as provided in this section, the person authorised as aforesaid may thereupon take or seize such sample. The sample so taken or seized shall be dealt with as is provided in section six.
- 5. (1) Any officer of the Department of Customs may take from any leather imported or intended for import into the Union a sample for analysis. The importer of such leather may, on depositing the sum of three pounds, demand that another sample for analysis shall be taken therefrom, and thereupon such sample, which may consist of one or more portions, shall be taken by an officer of the Department of Customs in the presence of the importer or his agent, if the importer so desires.
 - (2) Any sample taken on the demand of the importer under sub-section (I) of this section shall be divided into two portions (not necessarily of like weight, shape or size) in the presence of the importer or his agent, if the importer so desires, and each of the two portions shall be fastened up, scaled and marked in such manner as its nature may permit. One of the sealed portions shall be handed to the importer or his agent, and the other shall be submitted by the officer of the Department of Customs for analysis.
 - (3) If the analysis of the sample taken on the demand of the importer shows that the leather is adulterated the aforesaid deposit shall be forfeited, but if the analysis of the sample taken on the demand of the importer shows that the leather is not adulterated the deposit shall be returned to the importer.
- 6. Whenever a person authorised under section four of this Act purchases, takes or seizes a sample of leather he shall notify to the seller, or the occupier of the premises, or the owner of the leather or his agent, his intention to submit the sample for analysis. The said person shall then offer to divide the sample into two portions. If such offer is accepted the said person shall then, in the presence of the seller, or the occupier of the premises, or the owner of the leather or his agent, divide the sample into two portions, not necessarily of like weight, shape or size, and shall fasten up, seal and mark each portion in such manner as its nature may permit. He shall then hand one sealed portion to the seller, or the occupier of the premises, or the owner of the premises, or the owner of the sample purchased taken or seized is not accepted the said person shall fasten up, seal and mark in such manner as its nature may permit the whole of the sample purchased, taken or seized.

The said person shall, with all convenient speed, send, or cause to be sent, to the analyst one of the divided portions of the sample or the whole sample, as the case may be.

7. On receipt of any sample of leather the analyst shall, with all convenient speed, carry out the analysis and furnish a report as provided in section eight. If the analyst reports that the sample of leather is adulterated he shall fasten up, seal and mark, with a distinctive and identifying mark the unused balance, if any, of the sample, and he shall retain this for a period of sixty days unless it is called for before the expiration of such period , **%**.

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by the Minister or by a court before which an action is pending of which the sample is the subject.

- (1) The analysis of any sample of leather taken, purchased or seized in order to determine if such leather is adulterated shall be carried out by an analyst or chemist of the public service.
 - (2) The analyst shall frame a report of the results of the analysis and the report shall contain such particulars as may be prescribed by regulations under this Act.
 - (3) In any proceedings, against any person for a contravention of any provision of this Act the production of the report of the analyst on the analysis of the leather which is the subject of the alleged contravention, shall be prima facie evidence of the facts stated in the report unless the accused shall not less than three days before the hearing of the charge against him have required that the analyst be called as a witness. The accused shall bear the expenses incidental to the analyst being summoned and appearing as a witness, and before the analyst is summoned the accused shall deposit with the registrar or clerk of the court in which the proceedings are pending such sum as may be sufficient to meet the said expenses, which sum shall be returned to the accused if he is not convicted.
 - (4) The accused, instead of requiring the attendance of the analyst as a witness, shall be entitled to put to him interrogatories approved by the court, and such interrogatories and the answers thereto shall be received in evidence in any proceedings.
- 9. Any person who obstructs or hinders any officer or person in the exercise of his powers or duties under this Act, whether by refusing access to or in the examination or inspection of premises or any part thereof or any package or receptacle therein, or by refusing to sell a sample of the article contained therein, or in any other manner whatever, shall be guilty of an offence and liable on conviction to a fine not exceeding fifty pounds.
- 10. No proceedings for a contravention of any of the provisions of this Act shall be begun after the expiry of sixty days from the date of the commission of the alleged offence or from the date of the purchase, taking or seizing of the sample for analysis.
- 11. The Governor-General may make regulations not inconsistent with this Act for the better carrying out of the objects and purposes of this Act. Such regulations may prescribe penalties for a contravention thereof or default in complying therewith not exceeding a fine of ten pounds.
- 12. This Act may be cited for all purposes as the Adulterated Leather Act, 1923, and shall commence and come into operation twelve months after the promulgation of the Act in the *Gazette*.



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APPENDIX II

TARIFF REGULATIONS RELATING TO IMPORTATION OF HIDES, SKINS, AND LEATHER

Caruff No.	Duty.	Rebate upon Goods the Growth, Produce or Manufacture of the U K and Reciprocating British Colonies.
29. Leather, adulterated or loaded ¹ , per lb (or 20 per cent ad. val., whichever duty shall be	6d.	
the greater) ad. val.		3%
65. Harness and saddlery ad. val.	25%	3 »
67. Leather manufactures, viz. leggings, bags, trunks, portmanteaux, holdalls, belts, and gun cases, made wholly or chiefly of leather, not including fancy handbags ad. val.	² 5 ,,	3
12. Leather (as below) ad. val.	-3 "	Whole of duty
	3 "	rebated
 (a) In the piece : (r) Patent and enamelled. (ii) Morocco and roan. (iii) Pigskin. (iv) Valve hide. (b) High-grade leather in the piece, viz. : (i) Black calf, being whole skins, when the square feet per one dozen whole skins, ; 	measureme and the mo	ent does not exceed 144 easurement of no single
 skin exceeds 12¹/₂ square feet, and the fraction is . 3d. per square foot. (ii) Coloured calf (other than black) being we does not exceed 144 square feet per one data ¹ Up to June, 1924, leather, other than roan, morocco, p 	ee on boar hole skins, ozen whole atent, enam	d price is not less than when the measurement skins, and the measure- elled and fancy leather and
alve hide shall be deemed to be adulterated, weighted or los	aded, if it co	ontains :
 When vegetable tanned : (a) Over 1 per cent mineral ash. (b) Over 1 per cent glucose. (c) Any barium or lead salt. (d) Any magnesium sulphate. 		* \$1 .4
 2) When mineral or combination tanned: (a) Over 1[‡] per cent mineral ash other than tanning age (b) Any glucose. (c) Any baruum or lead salt. (d) Any magnesium sulphate. 	1997 - C	
ubsequently to $june$, 1924, the terms of the Adulterated appendix G 1).	Leather Ac	t will be in operation (see
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ment of no single skin exceeds $12\frac{1}{2}$ square feet, and the fiee on board price is not less than is. 6d. per square foot.

- (iii) Black glacé kid, when the measurement does not exceed 72 square feet per one dozen whole skins, and the measurement of no single skin exceeds 6¹/₄ square feet, and the free on board price is not less than 15. 3d. per square foot.
- (iv) Coloured glacé kid (other than black), when the measurement does not exceed 72 square feet per one dozen whole skins, and the measurement of no single skin exceeds 6½ square feet, and the free on board price is not less than 1s. 6d. per square foot.
- (v) Suède, velour and velvet finish leathers (not including those made from splits, or goat- or sheepskins, and not including leather known as chamois), when the measurement does not exceed 120 square feet per one dozen sides, and the measurement of no single side exceeds 10¹/₂ square feet, and the free on board price is not less than 18. 6d, per square foot. Provided that no leather shall be entered for payment of duty under items (b) (i), (ii), (iii), (iv) and (v), that is not full or straight chrome tanned.

Tariff No.	I	Rebate upo: Growth, Produce of the U K. and Duty British	e or Manufacture
128. Saddlery and harness furniture .	ad. val.		e of duty pated
193. All other hides and skins and leather	ad. val. 2	o ,,	3%
82. Bookbinders' requisites of leather and	parch-		
ment	ad. val.		e of duty bated
102. Glue, in bulk	ad. val.	3 "	,,
122. Potassium and sodium bi-chromate	ad. val.	3 "	**
 167. Substances for preparing or bating hid substances for tanning and finishing including alum and hyposulphide, und conditions and regulations as the Comm of Customs may prescribe Boots and shoes of all kinds (This rate to be continued until 1928, and then be reduced by 2½ per cent per annu 17½ per cent is reached, which will be per level of duty.) 	leather, er such issioner ad. val. 3 l should im until	ree o%	3%

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SECTION H OTHER EMPIRE COUNTRIES

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SECTION H

OTHER EMPIRE COUNTRIES

In this Section are given the statistics relating to hides, skins, etc., in parts of the Empire outside the large Dominions dealt with in previous sections. Some of these countries are of considerable importance as suppliers of raw material. Nigeria, in particular, has grown considerably in importance, while Kenya is, on 1 smaller scale, similar to South Africa inasmuch as she produces and exports ides, goatskins, sheepskins and wattle bark. The countries will be dealt with n the following order, the tables being collected at the end of the section :---

- 1. Aden.
- 2. Nigeria.
- 3. Kenya and Uganda. 10. Bermudas.
- 4. Tanganyika.
- 5. British Malaya.
- 6. Ceylon.
- 7. Jamaica.

- 8. Grenada. 9. Barbados.
- 11. Bahamas.
- 12. Trinidad and Tobago.

 - 13. Nyasaland.

ADEN

Aden is the centre and port of shipment of a very large trade in hides and kins. These hides and skins reach Aden both from Africa and Arabia-the led Sea ports, Massowah, Somaliland, Djibouti, etc. Table H 3 shows that early 80 per cent of the hides and a rather smaller proportion of the skins ame from the African side. In 1919-20 no fewer than 10,760,000 skins of alue Rs.13,000,000 and 770,000 hides of value Rs.6,000,000, reached Aden or subsequent re-exportation to the tanning countries (see Table H I). Table I 2, which gives particulars of the exports from Aden, indicates in more detail ne nature of the hides and skins exported. Practically all the hides were cowides; but of the 12,000,000 skins exported (including an accumulation from revious years) 6,800,000 were described as goatskins, 2,800,000 as sheepskins, nd 2,400,000 were not specifically described. Although the total numbers corted fell off in subsequent years, the proportion of the various types reained approximately the same.

A comparatively small proportion only of the hides and skins from Aden oes to Empire countries. Table H 4 shows that, by value, less than 25 per cent 1 1919-20 went to Empire countries, but in subsequent years the proportion as smaller. A smaller proportion still of the hides and skins handled at Aden tually came from Empire countries-13 per cent in 1919-20 (Table H 6). hus Aden is an Empire centre used for the handling and transhipping of des and skins (mainly) from foreign countries (mainly) to foreign countries.

Aden is also a centre for transhipment of a small quantity of rough tanned des and skins (see Tables H 5, 7, 8, and 9); while there is also a small portation of boots and belting.

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NIGERIA

In comparatively recent years Nigeria has become an important source of supply of hides and goatskins. Before 1907 there was practically no exports of hides and skins, either in the raw or the tanned state. The progress since that date is indicated by the figures in Tables H 12 and 13. In 1907 the value of the export of hides and skins, tanned and untanned, was less than $f_{13,000}$. In 1919 it was over $f_{1,250,000}$, and even in 1922, when the post-War boom was over, the value was over $f_{330,000}$.

The principal provinces for the supply of hides and skins are, in their order of importance, Kana, Bornu, Sokoto, Zaria, and Bauchi. The chief centre of the trade is at Kano, though it is said that the skins come from Sokoto and Katsena. Supplies also are very constant throughout both the wet and dry seasons. European firms are wholly dependent upon the African for supplies.

Nigerian goatskins produce kid of excellent grain, and the average size is good. A small trade is done in tanned skins, selections running, as a rule, 80 per cent goats and 20 per cent sheep. The skins are not fully tanned and require finishing off. Practically all the shipments of hides and skins are made from Lagos.

Full details of the exports in 1922 are given in the Tables H 14 and 15.

RAW HIDES

Exports in 1922 were 3,815,000 lb. with an f.o.b. price of 8s. 9d., compared with 3,673,000 in 1921 with an f.o.b. price of 11s. 7d. The percentage of exports to the various countries was as follows :---

				1922 Per cent.	1921 Per cent.
United Kingdom				31	68
Germany .	•	•	•	29	32
United States	·	•	•	17	
France .	·	•	•	15	
Holland .	•	•	•	7	

RAW GOATSKINS

Exports in 1922 were 2,752,000 lb. of f.o.b. value 14s. 8d. per lb., as compared with 1,129,825 of f.o.b. value 17s. 5d. per lb. in 1921. The percentage of exports to the various countries was as follows :---

					1922 Per cent.	1921 Per cent.
United Kin	ıgdom		•		74	57
United Sta	tes	•	•		17	32
France	•	·	•	·	6	10
Belgium	•	•	•	•	2	
Germany	•	•	•	•	I	

RAW SHEEPSKINS

Exports in 1922 were 96,000 lb. of f.o.b. value 8s. 5d. per lb., as compared with 27,000 lb. of value 14s. 9d. per lb. in 1921. The percentage of the exports to the various countries was :--

			1922 Per cent.	1921 Per cent.
United Kingdom			99.5	38
Germany .	•		0.5	23
United States	•	-		39

TANNED GOAT- AND SHEEPSKINS

Exports in 1922 were 231,000 lb. of f.o.b. value 17s. 8d. per lb., as compared with 135,000 lb. of f.o.b. value 21s. 6d. per lb. in 1921. The proportions to the various countries were as follows :--

				1922 Per cent.	1921 Per cent.
United Kingdom				71	86
Italy			•	13	9
Germany .	•			8	
United States		•	•	4	4
France .	•	•	•	3	

TANNED HIDES

Exports in 1922 were 38,000 lb. of f.o.b. value 98. 2d. per lb., as compared with 39,000 lb. of f.o.b. value 29s. 3d. per lb. in 1921. The exports were distributed as follows :--

			1922	1921
			Per cent.	Per cent.
Gold Coast	•	•	50	40
Germany		•	45	60

In 1919, at a period of high prices, a duty was placed upon the exportation of hides and skins. When the period of depression came this duty was very severely felt by the interests concerned, and the exports fell away to a considerable extent. In 1922 the export duty was reduced, and this fact accounted, at any rate partly, for the increased exports in that year. The export duties on hides and skins were reduced again on the 14th February, 1923, and now are :--

						Per lb.
Raw	cattle hides					₹d.
	sheepskins					<u></u> ∦d.
,,	goatskins					īd.
Tanı	ned cattle hide	s				₽d.
,,	goat- or sl	ieep	skins	. •	•	īd.

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KENYA AND UGANDA

Kenya and Uganda contribute hides, goatskins, sheepskins, and to a small extent, bark towards the raw materials of the leather industry. The total value of the export of hides and skins produced in the Colony in recent years has been as follows :---

12 1	nonths	ending	March	31st,	1919				1 50,000
,,	,,	,,	,,	,,	1920	•			490,000
	,,	,,	,,	,,	1921			•	152,000
9	,,	,,	Dec.	,,	1921				65,000
12	,,	,,	,,	,,	1922	•	•	•	77,000

The separate figures for (a) dry and dry-salted hides, (b) sheep and goatskins, and (c) other skins were :—

		Dıy salted Hıdes	Sheep- ar sku		Other Skins,	
1	Cwt	£	No.	£	No.	£
12 months ending March		X00 100		26 282	- 006	266
31st, 1919 12 months ending March	27,530	123,400	512,697	26,383	1,226	200
31st, 1920 12 months ending March	84,188	395,200	1,032,635	91,958	8,856	2,793
31st, 1921	14,505	84,500	420,821	62,625	13,065	4,749
31st, 1921	11,193	23,400	559,478	35,541	10,932	6,026
31st, 1922	23,891	50,000	278,431	23,420	91,353	3,861

In 1922, 59 per cent of the hides were shipped to the United Kingdom, 27 per cent to Italy, and 8 per cent to France; 39 per cent of the goatskins went to the United States, 22 per cent to the United Kingdom, and 15 per cent to France.

The pre-War and post-War variation in export prices were as follows :---

	~~ .					IIIdes. Average Value per. cwt. s. d.	Skins. Average Value per Skin. s. d.
31st	March,	1914,	12	months	•	936	0 11
,,	,,	1919		,,		89 7	ΙO
,,	"	1920		,,		93 11	19
,,	,,	1921		,,	•	116 7	30
"	Dec.	,,	9	,,	•	41 IO	I 3
"	,,	1922,	12	,,	•	41 11	' I 8

A 10 per cent *ad valorem* duty, which had been imposed during the boom period, was removed in April, 1922.

These figures indicate the very low value of dry hides in the countries of origin in 1921 and 1922—less than one-half of pre-War prices. Owing to in-

creased freight and charges, the values in the countries of consumption in those years were more near to the pre-War values. The development of British settlements in Kenya and Uganda is naturally causing more attention to be given to the care of cattle, and, in particular, steps have been taken to improve the method of branding cattle.

Certain hides and skins are imported into Kenya from adjacent territories, chiefly Tanganyika and Italian East Africa, and particulars of these imports are shown in Table H 16.

Particulars of the exports for 1922, showing country of destination, are given in Table H 17 for (a) hides, (b) goat- and sheepskins, and (c) skins not specified. About 60 per cent of the hides come to Great Britain; but France, Italy, and Germany are also substantial consumers. The United States took about two-thirds of the skins exported in 1922, France and the United Kingdom taking the bulk of the remainder.

There is a considerable quantity of wattle bark in Kenya Colony, and the inherent quality of this bark is of a high order, and, in the view of some authorities, superior to that of South Africa. Considerable difficulties have been experienced, however, in properly harvesting this bark, and until these are overcome East African bark will not be able to obtain the price of that from South Africa. A good deal of badly harvested mildewed bark has been shipped, and at the present time consumers prefer the more reliable bark from South Africa. About 600 tons of East African bark were exported in 1922 (see Table H 18). In view of the probable shortage of bark in South Africa in the next few years, if the harvesting difficulties can be overcome, a substantial improvement in the export of bark from East Africa should be experienced.

During the boom period in wattle bark an extract plant was erected at Limuru, near Nairobi, but for obvious reasons this has had to close down. During the War a Wattle Growers' Association was formed in British East Africa, and over 12,000 acres in the Protectorate were specially planted with wattle. It was then estimated that the output of bark in the first few years following the year would be about 7,500 tons per year.

following the year would be about 7,500 tons per year. There is a small importation of leather and leather goods for consumption in the Colony, amounting to $\pounds 18,273$ in 1922, of which nearly half came from India and half from Great Britain. A tannery equipped with modern machinery exists at Tsavo, but no information of its output is available.

TANGANYIKA

Figures showing the exports of hides and skins are reproduced in Tables H 19, 20, and 21. These tables show that the domestic exports of hides in 1922 were 27,700 cwt., of value \pounds 53,400, while the skins exported in that year were 2,800 cwt., of value \pounds 13,800. The bulk of these went to Kenya for exportation, but a certain proportion was exported direct.

BRITISH MALAYA

British Malaya is of interest to those engaged in the leather industry on account of its connection with gambier. The value of the tanned hides shipped

from British Malaya is actually much greater than the value of the gambier shipped, but in some respects the latter material is unique. Gambier is an extract made from leaves of a shrub grown in small gardens scattered over the Malay States. It is obtained by boiling the leaves, and is done in small quantities in the gardens, though one factory for the purpose exists. It is subject to a good deal of adulteration, and has caused much difficulty to tanners using it since the War. The quality has distinctly deteriorated, and the percentage of tannin is about four less than before the War. The price, however, has remained very high, and is, per tanning unit, out of all proportion to that of the other tanning agents. One reason for this lies probably in the fact that it is used also for dyeing purposes.

The total quantity exported before the War was from 20,000 tons to 22,000 tons. In 1921 the figure was 7,000 tons, and in 1922 8,200 tons.

Particulars of the imports from neighbouring areas and the exports to all countries in 1922 are shown in Table H 25. Over 40 per cent was shipped direct to other parts of the Empire.

British Malaya is a large importer of hides (see Table H 26), but the exports are comparatively small. The imported hides come chiefly via India, Hong-Kong and Siam, and much of the resultant leather is exported as rough-tanned hides. In 1921 the value of this exceeded \pounds 700,000, and in 1922 over \pounds 400,000. Nearly all the exported leather goes to Hong-Kong, and particulars of the exports for 1922 are shown in Table H 28.

There is, in addition, some import and export trade in boots and shoes and leather goods, the values of which, in 1921 and 1922, are shown in Tables H 21 and 22.

CEYLON

According to the Returns of 1922, there were 487,000 buffaloes, 1,013,000 black cattle, 55,000 sheep, and 150,000 goats in Ceylon. There are three tanneries in the Colombo district, and in 1922 74 tons of bark and 75 tons of other tanning materials were imported, while 40 tons of tanning materials produced in the island were exported. The imports of hides (dry and dry-salted) were 686 cwt. of buffaloes and 131 cwt. of other sorts. The exports of hides (dry and dry-salted) were 10 cwt. of buffaloes and 7,187 cwt. of other sorts.

The imports of leather and leather manufactures were as follows :---

				Cwt.	Rs.
Rough-tanned .				181	45,000
Dressed hides .				58	16,000
,, skins .		•		101	24,000
Leather belting .				150	79,000
Saddlery and harness				26	15,000
Boots and shoes .				63,084 pairs	546,000
Other sorts .	•	•	•	291 ,,	15,000
Total value					740,000

OTHER EMPIRE COUNTRIES

The exports of leather produced in Ceylon were :---

					Cwi.	Rs
Rough-tanned					1,390	110,000
Dressed hides	•				109	10,000
,, skins	•	•	•	•	365	31,500
Total value	;	•				151,500

JAMAICA

Jamaica has a small tanning industry, and exports a little leather in addition to hides and logwood extract. The exports of cattle hides in 1921 were :---

			Hides.	£
United Kingdo	m		2,250	1,603
Canada .			4,200	2,992
All Countries			6,654	4,740

The exports of leather produced in Jamaica wcre :---

				1b.	£
United States				1,868	240
Grenada .				1,088	<u>9</u> 8
Canada .				1,006	112
Dominica				742	75
Cayman Island				687	70
British Guiana				502	69
Barbados .	•			547	49
Bahamas .	•			43	6
Total all C	ount	ries	•	6,483	719

The exports of logwood extract amounted to 6,951 packages, of value £109,125, practically all coming to United Kingdom; 135 tons of divi-divi, of value £962, were exported to Germany.

The imports of hides were very small, but the imports of leather amounted of $\pounds_{2,051}$, of which $\pounds_{1,475}$ came from the United Kingdom, and \pounds_{565} from the United States. The imports of leather manufactures were as follows :—

		From United Kingdom.	From United States.	From all Countries.
Boots (pairs)		44,508	228,096	279,976
,, (value f).	•	21,618	91,284	114,064
Saddlery and harness (value f)		7,519	1,764	9,297
Other leather goods (" ~)	•	4,464	3,080	7,649
Total value of leather				
goods (value f_{c}) .	•	33,601	96,128	131,010

.

GRENADA

There is a small exportation of hides from Grenada. The figures for three years were :---

			Cwt.	£
1920	•	•	347 169	720
1921			169	326
1922		•	III	180

The whole of the hides exported in 1922 went to Trinidad. The imports of leather and leather goods in the same years were as follows :---

		1920	1921	1922
Boots (pairs)		28,512	6,324	14,496
,, (value £) Undressed leather		11,860	2,030	4,214
Undressed leather		15,515	4,052	4,752
,, ,,	(value £)) 2,391	444	4,752 4 ⁸ 7

In 1922 the United States provided 7,788 pairs of boots, of value $\pounds 2,484$, and Great Britain 4,056 pairs, of value $\pounds 1,402$. The leather imported came mainly from Jamaica and Trinidad.

BARBADOS

In 1922 Barbados imported leather and leather goods to the total value of $\pounds 41,570$, distributed as follows :—

			From Great Britain.	From all Countries,
			£	£
Undressed leather .			· 757	1,558
Dressed " .			· 799	1,239
Boots and shoes .	•	•	. 22,928	35,3771
Saddlery and harness		•	. 873	1,121
Other leather manufac	tures		. 1,565	2,275

¹ Of which £7,458 was from the United States.

BERMUDAS

In 1920 Bermudas exported hides to the value of £210 (all to Canada), and imported the following leather and leather goods :---

			From	United States. \mathcal{L}	From all Countries. \int_{ℓ}
Leather				3,549	4,743
Boots	•	•	·	37,977	40,541

BAHAMAS

In 1921 Bahamas exported hides to the value of £430 (all to the United States), and imported £14,670 of boots, of which £13,860 came from the United States and £810 from Great Britain.

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TRINIDAD AND TOBAGO

Trinidad and Tobago have three tanneries, an abattoir, and a dyeworks. In 1920-22 hides and skins were imported as follows :---

					1920	1921	1922
Hides (N	₹o.)				13,789	11,897]	10,288
Skins	"	•	•	•	2,462	1,837∫	10,200
Hides (v.	alue	£)	•		21,616	7,567	H 077
Skins	,,	•	•	•	6,627	170)	7,371

In 1922 8,405 of the hides and skins, of value £6,598, came from Venezuela. The imports of boots and shoes were as follows :—

			1920	1921	1922
Pairs			358,244	134,940	277,596
,,	(value f_{c})	•	127,038	134,940 58,345	85,455

Of the imports in 1922 133,344 pairs, of value £47,765, came from Great Britain, and 78,456 pairs, of value £23,315, came from the United States. In addition, leather and leather manufactures other than boots were im-

					5
1920	•	•	•	•	36,630
1921	•	•	•	•	14,675 9,387
1922	•	•	•	•	9,387

Of the imports in the last-named year, £3,175 came from Great Britain and £4,200 from the United States.

The exports from Trinidad and Tobago comprised the following :---

		1920	1921	1922
Hides and skins (N	Io.)	6,176	12,298	7,921
,, ,, (va	alue f) .	11,723	16,449	13,060
Divi-divi " (lb		-		135,000
,, (va	alue $f()$.			843
Leather (" ີ) .	2,881	831	944
	airs)	28,548	13,500	27,036
,, (va	alue f) .	3,994	1,546	2,358

The chief destinations of the hides and skins exported in 1922 were as follows :---

					NO.	Ł
Great Britain			•		3,219	5,628
France .	•	•	•	•	2,450	5,061
United States	•	•	•	•	1,397	2,716

332 LEATHER, HIDES, AND SKINS

The divi-divi went entirely to Germany, and the leather to British Guiana and the West Indies. The latter country took more than half of the boots exported.

NYASALAND

Nyasaland in 1922 possessed 101,000 cattle, 58,000 sheep, and 174,000 goats. Her exports of hides and skins have been as follows :---

		1920	1921	1922
Weight (lb.) Value £,		22,910	8,085	3,587
Value £ .	•	657	117	171

Imports of leather and boots in the same year were as follows :---

- 86

		1920	1921	1922
Leather (cwt.) .		31	33	58
,, (value f)		536	692	633
Boots (pairs) .		30,504	42,252	27,696
$,,$ (value f_{i})	•	3,143	3,715	869

TABLE H 1

Aden

TOTAL IMPORTS OF HIDES AND SKINS, RAW

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			Quantity.			Value.			
v		1919-20	1920-21	1921-22	1919-20 Rs.	1920–21 Rs.	1921–22 Rs.		
Hides, raw-									
Cwt .		76,705	11,580	4,865 🔪	60,91,080	5,98,680	1,19,239		
No	•	767,053	115,792	48,637 /	00,91,000	5,90,000	-,-9,~39		
škins, raw—									
Cwt	•	111,552	42,051	65,248	1,32,81,300	49,25,430	50,61,731		
No	•	10,758,922	4,858,476	6,187,870 🖌	-,J-,,J	197-3713	5 / //5		
Fotal hides skins—	and								
Cwt		188,257	53,631	70,113 \	1,93,72,380	55,24,110	51,80,970		
No	•	11,525,975	4,974,268	6,236,507	1,93,/2,300	33,44,110	5-,00,9/0		

TABLE H 2

Aden

TOTAL EXPORTS OF HIDES AND SKINS, RAW

			Quantity.		Value.				
	1919-20 1920-21 1921-22		1919–20 Rs.	1920–21 Rs.	1921–22 Rs				
Cow-hides									
Cwt		80,390	9,663	6,121 🔪	77 00 02 F	8 42 075	2,26,285		
No		803,900	96,613	61,215	77,99,025	8,43,975	2,20,205		
Calfskins		• • •							
Cwt		122		24 ไ	2 445		300		
No		2,440		480 J	2,445		300		
Other sorts				-					
Cwt	•	2,193	1,007	6,267 ไ	44,985	27,510	2,23,414		
No		21,928	10,070	62,655]	44,905	27,510	~,~3,4-4		
			•						
Fotal hides, ray	v								
Cwt		82,705	10,670	12,412	78,46,455	8,71,485	4,50,028		
No		828,268	106,683	124,350 🖌	70,40,455	0,71,405	4,50,020		

LEATHER, HIDES, AND SKINS

TABLE H 2 (contd.)	Quantity.			Value.				
	1919-20	1920-21	1921-22	1919-20 Rs	1920–21 Rs.	1921–22 Rs.		
Skins, raw Goatskins						,		
No Cwt	85,399 6,831,674	16,383 1,310,577	45,885 } 3,670,629 }	1,70,85,060	28,74,165	48,17,926		
Sheepskins Cwt No	34,660 2,772,763	15,195 1,215,480	19,575 } 1,565,838 ∫	62,59,300	26,06,415	27,75,151		
Other sorts— Cwt No	7,417 2,373,485	5,689 1,820,433	4,099 } 1,312,080 }	6,58,545	6,14,370	3,91,817		
Total skins, raw— Cwt No Total hides and skins (excluding	127,476 11,977,902	37,267 4,346,490	69,559	2,40,02,910	60,94,950	79,84,894		
cuttings of hides and skins, raw)—		Ę						
Cwt No	210,181 12,806,190	47,937 4,453,173	81,971 6,672,897	3,18,49,365	69,66,435	84,34,922 ·		

TABLE H 3

Aden

	IN	1PORI	S OF	HIDES	and Skins	(RAW), 1920-21	AND 1921-22	;	
Place of origin					19	20-21	1921-22		
	-				Cwt.	Rs.	Cwt.	Rs.	
Hides :			•	•	8,658	4,86,375	3,778	95,441	
	Arabia	•			2,877	1,10,940	1,026	22,560	
	All	•			11,580	5,98,680	4,865	1,19,239	
Skins :					31,725	40,58,805	43,934	38,48,315	
	Arabia				10,236	8,58,300	21,155	12,00,889	
	All				42,051	29,25,430	65,248	50,61,730	
The	hides co.	me fı	om L	Jibouti	, Red Sea r	orts, and Massow	ah.		
The	skins co	me fr	om D	jibouti	, Red Sea p	orts, and Somalila	ind.		

TABLE H 4

Aden

EXPORTS OF RA	w Hr	des and Skins,	1919-20 то	1921–22
		1919-20 Rs.	1920-21 Rs.	1921–22 Rs.
To Empire Countries		85,91,565	34,01,265	24,69,447
"Foreign "	•	2,32,57,860	35,65,770	59,67,265
Total.		3,18,49,425	 69,67,035	84,36,712

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OTHER EMPIRE COUNTRIES

TABLE H 5

Aden

	Aaen		
EXPORTS OF HIDES AND SKII	ns, Tanned	or Dressed,	AND LEATHER
	1919-20 Rs	1920–21 Rs	1921–22 Rs.
To Empire Countries .	375	3,675	5,350
"Foreign "	46,530	38,355	17,744
", z os os <u>g</u> s, ",	40,000	3-1333	-/// 77
Total	46,905	42,030	23,094
Т	ABLE H 6		
	Aden		
Imports of Raw Hides			1921–22
	1919-20 Rs	1920–21 Rs.	1921–22 Rs.
From Empire Countries	25,85,655	12,27,480	13,11,529
,, Foreign ,, 1	,67,86,725	42,96,630	38,69,441
-			
Total 1	,93,72,380	55,24,110	51,80,970
Т	ABLE H 7		
	Aden		
Imports of Hides and Skin		OF DEFERT	AND LEATHER
	1919-29	1920-21	1921-22
	Rs	1920-21 Rs.	Rs.
From Empire Countries	61,095	31,485	43,793
"Foreign "	43,725	18,390	14,836
		.05	1. 5
Total 1,	04,820	49, ⁸ 75	58,629
т	ABLE H 8		
-	Aden		
m			T
TOTAL IMPORTS OF TANN		ND BEINS AND	
	Quantity	1921-22 191	Value. 19-20 1920-21
1919-20	1920-21		Rs. Rs.
Iides, tanned or dressed (cwt.) 453	281	6267	
", " (No.) 4,519		$6,258 \int 25$,350 14,595
kins (cwt.)	,	TIO	
" (No.)	•	10,430 \$ 43	,560 19,110
Jnwrought (cwt.) 10			435 15
eather cloth			

Total leather, value

reacher croth	•	•		 		100
Ianufactures (excludin						
and shoes and belt	ting :	for				
machinery)						
Bags and trunks			 	 13,050	6,210	10,112
Saddlery and harness			 	 9,420	5,805	2,535
Other sorts	•	۰.	 	 13,005	4,140	5,143

1,04,820

1921–22 Rs.

26,319

14,340

58,629

49,875

LEATHER, HIDES, AND SKINS

TABLE H 9

Aden

TOTAL EXPORTS OF HIDES AND SKINS, TANNED OR DRESSED

				1919–20	1920-21	1921–22	1919–20 Rs.	1920–21 Rs	1921–22 Rs.
Cwt. No.	•	:	:	52 16,489	195 15,654	14,928	32,985	28,020	13,435

TABLE H 10

Aden

Imports of Boots and Shoes

Leather . Other materials	 1919–20 Pairs 15,801 6,895	1920–21 Pairs. 11,431 9,825	1921–22 Pairs. 9,637 6,740	1919–20 Rs. 70,095 21,525	^{1920–21} Rs 53,730 19,440	1921–22 Rs 24,893 12,990
Total	 22,696	21,256	16,377	- 91,620	73,170	37,883

TABLE H 11

Aden

IMPORTS OF BELTING FOR MACHINERY

Leather . Cotton . Other materia	11s	•	•	1919–20 1,950 1,110 195	1920–21 8,880 120 735	1921–22 1,613 1,442 2,820
Total .			-	3,255	9,735	5,875

TABLE H 12

Nigeria

EXPORTS OF UNTANNED HIDES AND SKINS, 1907-22

	United K	United Kingdom.		any.	Other Co	ountries.	Total.	
Year.	No.	£	No.	£	No	£	No	£
1907	6,395	773	5,651	2,200	1,324	389	13,370	3,362
1913	285,525	81,907	188,046	84,485	74	22	473,645	166,414
1919	2,048,189	530,286			2,788,019	586,608	4,836,208	1,116,894
1920	1,790,146	565,335		-	459,323	101,482	2,249,469	666,817
1921	755,235	149,877	94,356	64,682	381,668	48,285	1,231,259	262,844
1922	1,979,198	178,368	110,005	43,116	719,332	94,549	2,808,535	316,033

TABLE H 13

Nigeria

EXPORTS OF TANNED HIDES AND SKINS, 1907-22

	United K	ingdom.	Gern	nany.	Other Co	untries.	Total.	
Year	No.	£	No.	£	No	£	No	£
1907	199,745	9,213	14	2	I,744	35	201,523	9,575
1913	652,288	30,633	1,360	104	880	63	654,528	30,800
1919	1,005,787	130,635			117,106	14,611	1,122,893	145,246
1920	438,727	101,188			24,268	6,720	462,995	107,908
1921	99,716	11,010	2,800	4,059	15,195	1,817	117,711	16,886
1922	159,099	12,950	20,379	1,467	34,111	4,168	213,589	18,585

TABLE H 14

Nigeria

EXPORTS OF HIDES AND SKINS BY CLASSES AND COUNTRIES, 1922

				United Kingdom.	United States.	Germany	France.	Holland.	Belgium	Total.
Cattle hides up to 11 lb										
1b.	•			114,000		165,000	436,000			715,000
£				4,008		6,883	12,711			23,602
Ño.				<u> </u>						82,545
Cattle hides, 11–14 lb. —										
lb.		•	•	265,000	147,000	266,000	148,000			826,000
£				9,737	3,857	9,918	1,300			24,812
Ño.										64,917
Cattle h	nides,	14-18	3 lb							
lb.				667,000	509,000	352,000		264,000		1,792,000
£				35,479	13,220	14,466		11,020		74,185
No.		•								117,221
Cattle h	ides	over 1	8 1Ь.							
lb.	•	•		154,000	7,091	321,687				482,778
1				9,669	<i>'</i> Śı	9,748	-			19,498
Ño.										24,073
Goatski	ins—									
1b.				2,048,000	461,000	35,000	155,000		53,000	2,752,000
£				115,742	37,241	2,048	9,834		5,266	170,131
Ño.										2,436,704
Sheepsl	kins-									
lb.				96,000		450				96,450
ĩ				3,399		19				3,418
Ño,										82,277

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LEATHER, HIDES, AND SKINS

TABLE H 15

Nigeria

EXPORTS OF TANNED HIDES AND SKINS BY COUNTRIES, 1922

			Tanned (No. lb	3633)	Tanned Goat- and Sheepskins (No. 209946) Ib ✓		
TT : 1 TT 1				<i>t</i>		£	
United Kingdom	•	•	700	44	163,000	12,905	
Germany		•	16,800	700	18,300	767	
Gold Coast .			19,000	64.8	1,400	103	
Sierra Leone .			100	8	3,000	289	
Togoland .		•	100	2			
French Possessions		•	100	4		6	
Belgian Possessions		•	300	9		-	
United States .			800	38	8,000	507	
France .		•			6,700	403	
Italy					29,500	2,151	
					-		
Total.	·	•	37,900	1,453	229,900	17,131	

TABLE H 16

Kenya and Uganda

IMPORTS OF HIDES AND SKINS, 1922

Hides, dry and dry-salte Tanganyika Territory Belgian Congo	d	•			•	Quantities. Cwt. 4,555 66	Value. £ 9,497 53
Total						4,621	9,550
Skins, sheep and goat— Tanganyıka Territory Italıan East Africa		•	•	•	•	No. 62,496 224	5,815 22
Total						62,720	5,837
Skins, other animals—						No	£
Tanganyika Territory						896	4 5
Belgian Congo						3,136	15
Italian East África	·	·	·	•	•	16,576	610
Total						20,608	670

TABLE H 17

Kenya and Uganda

EXPORTS OF HIDES AND SKINS, 1922

	Domestic Produce Cwt	Produce other than Domestic. Cwt.	Toial Cwt	Domestic Produce.	Produce other than Domestic.	Total £
Hides, dry and dry-salted-		0410	Cut.	5	2	2
United Kingdom .	14,115	16,663	30,778	28,864	34,746	63,610
India .	525	749	1,274	1,116	1,639	2,755
Zanzibar .	225	28	253	461	116	577
Union of South Africa	52		52	105		105
Belgium	245	523	768	495	1,053	1,548
France .	1,865	3,741	5,606	3,888	7,690	11,578
Italy	6,544	2,845	9,389	14,363	5,923	20,286
Germany	315	3,873	4,188	749	7,900	8,649
Italian East Africa	3-J 4	3,073	4	6	,, <u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6
United States	4 I		Ť	2		2
	-	_	-	~		-
Total .	23,891	28,422	52,313	50,049	59,067	109,116
Shipa shaan and weat						
Skins, skeep and goat—	60	-6 6		0		
United Kingdom . India	60,928	16,426	77,354	3,798	1,353	5,151
Zanzibar		5,824	5,824		118	118
	448		<u>44</u> 8	21		21
France	41,290	54,955	96,245	3,374	5,425	8,799
Germany	224	1,419	1,643	7 ر	32	39
Italy.	11,125	8,736	19,861	631	654	1,285
Italian East Africa	75	2,315	2,390	3	223	226
United States	164,341	180,395	344,736	15,586	17,676	33,262
Total	278,431	270,070	548,501	23,420	25,481	48,901
Skins, other animal-						
United Kingdom .	13,290	300	13,590	2,758	102	2,860
India and Burma	3,136		3,136	655	2	657
Zanzibar	3,-30		30	17		17
Union of South Africa	75	224	299	33	28	61
Australian Colonies	5		- 99	2	~~~	2
Belgian Congo	5	-	5	2	-	2
France	5 I	150	151	ĩ	21	22
Holland	100		100	53		53
Italy.	20	524	544	55 15	80	93
Portuguese Possessions	3	544	3	-3		3
Spain	2,240	-	э 2,240	250		250
United States	448		448	230 72	-	72
	440	An and a second second second	440	14		
Total	19,353	1,198	20,551	3,861	233	4,092

LEATHER, HIDES, AND SKINS

TABLE H 18

Kenya and Uganda

EXPORTS OF BARK FOR TANNING, 1922

						Quantity. (Cwt)	Value.
United Kin	gdom					1,487	611
Germany	•	•				5,405	1,736
Norway	•	•				4,022	946
Spain .	·		·	•	•	600	165
	To	tal				11,514	3,458

TABLE H 19

Tanganyika

EXPORTS OF HIDES, DRY AND DRY SALTED

		Domestic	Exports.		Transit Exports.				
	Quan	tities,	- Valu	ie.	Qua	ntities.	Value.		
Countries of	1921	1922	1921	1922	1921	1922	1921	1922	
Consignment.	Cwt.	Cwt.	£	£	Cwt.	Cwt.	£	£	
United Kingdom .	1,504	3,572	3,965	4, 845	505		765		
Kenya and Uganda	3,209	20,546	6,890	42,383	521	4,684	1,180	8,820	
France	1	1,949	2	3,879	-	58	house	110	
Belgium		831		1,107	2,496	18,720	8,659	33,996	
Total to all Coun-		•							
tries	5,016	27,719	11,633	53,401	4,078	23,507	11,118	42,960	

TABLE H 20

Tanganyika

EXPORTS OF SHEEP- AND GOATSKINS

		D	omestic Quan	Exports. tities		Exports. ntities.	Domestic Val			Exports, lue,
Countries of			1921	1922	1921	1922	1921	1922	1921	1922
Consignment.			Cwt.	Cwt.	Cwt.	Cwt.	£	£	£	£
Kenya and Uganda	•	•	2,074	2,176	11,387	10,198	595	410	4,116	2,350
United States .		·		373		1,734				
Belgium	·	•		I		6	230		1,594	
Total to all Countries	•	•	2,121	2,653	11,620	12,402	829	491	5,740	2,470

TABLE H 21 British Malaya IMPORTS, 1921 AND 1922

				1921		192:	1922		
				Quantity. Piculs.	Value. \$(000)	Quantity. Piculs.	Value. \$(000)		
Mangrove bark				357,000	494	402,000	500		
Gambier in bales				15,700	118	13,200	117		
", in cubes	•			16,600	278	28,900	448		
Hides, raw .	•	•		58,500	2,769	53,000	1,633		
Goatskins .			•		607		437		
Hides, tanned				1,668	102	1,191	67		
Boots and shoes	•	•			462		313		
Leatherware .	•	•	•		432	Teaching .	487		
Saddlery .	•	•	•		15		7		

Picul=133 lb. \$=28.4d. (Government rate of exchange).

TABLE H 22

British Malaya

EXPORTS, 1921 AND 1922

					1921		1922
				Quantity.	Value	Quantity	Value.
Article.				Piculs.	\$(000)	Piculs.	\$(000)
Mangrove bark				229,000	653	253,000	613
Gambier in bales		•	•	39,700	371	41,300	409
Gambier in cubes	•			79,100	1,031	98,500	1,360
Hides, raw .	•			10,600	300	20,900	535
Goatskins .	•	•	•		542		314
Hides, tanned .	•			71,800	5,970	52,500	3,509
Boots and shoes					184		151
Bags and trunks	•				II		23
Leatherware .	•		•	-	257	-	126
Saddlery .	•	•	•		4		3

Picul=133 lbs. \$=28.4d. (Government rate of exchange).

TABLE H 23

British Malaya

IMPORTS AND EXPORTS OF MANGROVE BARK, 1922

					Impo	orts.	Exports.		
Country.					Quantity Piculs.	Value. \$	Quantity. Piculs.	Value. \$	
Hong-Kong				•			139,623	326,376	
China						-	110,114	281,659	
Borneo					6,264	6,916		-	
Sumatra					273,648	359,675	-		
Other Dut	ch]	Islands			14,907	13,851			
Siam and	Sian	nese Sta	tes		105,121	114,981	60	48	
Total, all (Cou	ntries		•	400,060	495,821	352,921	612,753	

LEATHER, HIDES, AND SKINS

TABLE H 24

British Malaya

IMPORTS AND EXPORTS OF GAMBIER IN BALES, 1922

				I	uports.	Exports.		
				Quantity.	Value.	Quantity.	Value.	
				Piculs	\$	Piculs.	\$	
United Kingdo	m	•				14,426	138,959	
Belgium .	•					4,203	39,439	
France .						3,716	39,357	
Germany .						1,290	12,551	
Dutch Islands				12,628	111,565			
United States						16,398	166,444	
Total, all Cour	tries		•	13,217	116,875	41,256	408,935	

TABLE H 25

British Malaya

IMPORTS AND EXPORTS OF GAMBIER IN CUBES, 1922

					Im	poris,	Ex	Exports.		
					Piculs.	^ \$	Piculs.	\$		
United Kingd							11,147	127,551		
British India	and	Burma			66	1,800	30,999	447,399		
Hong-Kong							1,118	12,498		
Australia						and the second se	544	8,967		
Sumatra					3,754	99,460				
Sarawak					62	664				
United States					801	7,200	25,820	315,542		
France .							4,901	61,226		
Germany					-	-	4,306	60,826		
Italy .							1,143	15,859		
Spain .							845	8,176		
China .							55,698	753,742		
Japan .						-	1,017	13,877		
Dutch Borned	b				1,247	15,349		-35077		
Other Dutch	Islar	ıds			22,915	323,241				
Siam and Sia	mese	States			3	63				
					5	-5				
Total	•	·	•	•	38,848	447,777	137,538	1,825,663		

TABLE H 26

British Malaya

IMPORTS AND EXPORTS OF RAW HIDES, 1922

	In	ports		Exports		
Country.	Quantity. Piculs.	Value. \$	Quantity Piculs.	Value. \$		
United Kingdom .			9,812	221,125		
British India and Burma	12,589	325,640	42	1,461		
Hong-Kong .	15,996	713,070	626	15,805		
Egypt			2,471	62,211		
France			2,598	73,728		
Netherlands			433	12,128		
Spain			1,456	53,500		
French Indo-China .	1,435	49,428				
Balı and Lombok.	886	36,667				
Borneo	1,090	25,043				
Celebes and Moluccas .	1,208	51,016	7	225		
Java	1,016	43,731				
Siam and Siamese States	16,598	338,176				
United States			1,685	49,5 ⁸ 5		
Other Foreign Countries	-		1,479	37,345		
Total, all Countries .	52,990	1,632,577	20,917	534,611		

TABLE H 27

British Malaya

IMPORTS AND EXPORTS OF RAW GOATSKINS, 1922

			Imports. Value. \$	Exports. Value. \$
British India and Burma			431,330	23,922
Hong-Kong				165,935
Java			492	28,705
Sumatra		•		11,428
Siam and Siamese States	•	•		57,075
Total, all Countries .	•	•	436,913	313,918

TABLE H 28

British Malaya

IMPORTS AND EXPORTS OF TANNED HIDES, 1922

			Imp	orts,	Exports.		
			Quantity, Piculs	Value. \$	Quantity. Piculs.	Value. \$	
British India and Burm	a		858	48,950			
Hong-Kong	•	•	22	1,350	50,161	3,348,869	
China	•	•			64.1	39,147	
Borneo		•			277	21,554	
Celebes and Moluccas	•	•			611	45,024	
Java			146	7,900	56	3,515	
Sumatra		•	127	6,785	291	19,141	
Other Dutch Islands	•	•			161	12,907	
Total, all Countries	•	•	1,190	67,163	52,457	3,509,188	

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APPENDIX

STATISTICS OF THE EMPIRE'S PRODUCTION OF FUR SKINS

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New Zealand	1		348	Great Britain	•	•	349-350

(A) Canada

THE most important producer of fur skins among Empire Countries is Canada. The recent information available for that country is contained in (a) Report on the Fur Farms of Canada, 1922, and (b) Fur Production of Canada, Season 1921-22, both publications being issued from the Dominions Bureau of Statistics.

In 1922 there were 1,026 fur farms in the Dominion, of which 977 were fox farms. The value of fur-bearing animals was returned as \$5,864,000, half of which was in Prince Edward Island. Statistics of the various kinds of furs for 1922 can be summarised as follows :---

		Decembe No. of Fur-	r 31st, 1922 Total value of		1922	
		bearing Animals.	Fur-bearing Animals. \$(000)	Born.	Died.	Killed for Pelts.
Silver foxes .		22,318	5,663	16,604	3,033	6,894
Patch or cross foxes		1,384	103	1,017	295	539
Red foxes .		435	9	495	172	423
Blue " .	•	10	2			
White "		16	I			
Mink		288	6	248	41	114
Raccoon .		105	I	45	15	9
Skunk		34	I	219	66	220
Marten		3				
Fisher .		7	I	3	3	
Opossum						
Lynx		3				
Karakul sheep		941	68	376	I	30
Brown beaver .		81	2	42		42
Musk-rat .		5,157	7	150		5
Bear	•		-			2
		30,782	5,864	19,199	3,626	8,278

The total number and value of pelts of various kinds taken from fur-bearing animals in the season 1921–22 (including pelts of animals taken by trappers and pelts of ranch-bred animals) was as follows :---

Kınd.		No. of Pelts.	Total Value of Pelts. \$	Average Value per Pelts \$
Badger		1,777	1,844	1.04
Bear, black .		8,432	90,171	10.81
" brown .		738	6,769	9.17
" grizzly .		115	1,882	16.36
	•	378	6,918	18.30
" unanasifad	•	341	4,092	12.00
Beaver	•	232,134	4,266,767	18.38
Coyote	•		277,338	
Ermine (weasel)	•	30,551	248,469	9.07
Fisher or pekan	·	450,372 5,689	424,688	•52
Fox, cross	•		424,000	74.45
, mod	•	5,759	289,651	50.30
,, silver .	•	38,024	473,978	12.46
,, suver .	•	4,979	734,002	147.42
	•	155	10,978	70.82
" white .	•	40,927	1,625,017	39.70
,, other .	•	214	1,311	6.12
Lynx	•	11,673	237,925	20.38
Marten or sable	•	58,989	1,216,229	20.22
Mink	•	205,324	1,848,856	9.00
Musk-rat .	•	3,060,526	4,707,043	1.24
Otter		13,689	373,153	27.26
Rabbit		1,334	200	.15
Raccoon .		35,229	129,742	3.71
Skunk		133,342	312,130	2.35
Squirrel, black .		15	19	1.27
,, grey.		64	ц	·17
,, red .		79	6	·07
Wild cat .		3,583	14,922	4.16
Wolf		9,451	96,146	10.17
Wolverine or carc	aiou	1,143	20,059	17.54
Caribou .	· .	4	8	2.00
Deer		9,363	12,947	1.38
Elk		8	,947	2.50
Moose		1,838	5,249	2.85
Panther		40	195	4.87
House cat .	-	400	100	+ 07
Civet "	-	111	32	·28
	•		•	40
		4 466 700		

4,366,790

17,438,867

The export trade in furs is almost entirely with the United States and the United Kingdom, the summary figures for the fiscal years 1913 and 1921 being :---

			Value \$(000)						
			United States.	1913 United Kingdom.	All Countries.	United States.	1921 United Kingdom.	All Countries.	
Furs, undress	ed		2,184	2,629	5,151	7,933	3,509	11,731	
,, dressed	•	•	11	2	15	39	21	168	
Manufactures	of furs	•	35	25	70	36	146	331	
Total			2,230	2,656	5,236	8,008	- 3,676	12,230	

For 1921 the details of the individual varieties of undressed skins exported were as follows :—

			United States. Value.		United Kr	ngdom. Value.	All Countries. Value		
			No	\$(000)	No.	\$(000)	No.	\$(000)	
Sealskins			1,622	8	74	3	1,715	II	
Musk-rat	•		860,442	1,631	390,748	73Š	1,253,553	2,380	
Beaver			106,684	2,137	42,103	1,002	150,190	3,186	
Black and si		fox	3,600	649	546	143	4,471	⁻ 888	
Other fox sl	kins		20,106	434	8,937	342	30,621	845	
Marten	•	•	28,403	839	14,361	446 282	42,987	1,296	
Mink	•	•	71,673	760	25,406	282	97,125	1,072	
Other skins	•	•		1,472		536		2,060	

(B) Australia

Australia is a very large producer of rabbit-skins, the principal statistics being as follows :—

EXPORTS OF RABBIT- AND HARESKINS

		Quant	ity (lbs.)	Value (£)		
United Kingdom . Total Empire Countries	•	6,813,602 6,813,602	3,198,888 3,201,380	1913 417,649 417,649	1921-22 257,725 258,141	
United States . Total Foreign Countries	:	2,189,580 2,977,060	5,035,676 5,133,139	151,097 203,981	516,367 529,67 5	
Total Exports .		9,790,662	8,334,519	621,630	787,816	

LEATHER, HIDES, AND SKINS

(C) New Zealand

EXPORTS OF RABBIT-SKINS									
		Quantity (No.)		Value (£)					
	1913	1921	1922	1913	1921	1922			
United Kingdom .	6,196,639	8,285,487	8,801,683	85,580	247,081	319,297			
Total Empire Countries	6,265,508	8,547,655	8,907,993	86,737	259,726	321,620			
United States		5,369,091	6,561,230		188,295	245,202			
Total Foreign Countries	2,100	5,374,791	6,579,232	19	188,454	246,244			
Total Exports .	6,267,608	13,922,446	15,487,225	6,756	448,180	567,864			

(D) South Africa

EXPORTS OF SEALSKINS

		Year ended 31st Quantity (lb)	December, 1913. Value (£)	Year ended 31st December, 19: Quantity (lb.) Value (x)		
United Kingdom		152,485	5,609	14,746	14,034	

(E) Newfoundland

Exports of Furs, Year ended 30th June, 1922 Furs

		TOR	2		
United Kingdom			Quant Not a		
Canada United States .	:	:	,, ,,	», ,,	18,725 190,785
Total					. 308,538
	SEAL	ls, Df	ESSED		0 .00
Canada United States .	•	•	•	5 10	34 95
Total	•	•	•	15	
10tai	•	•	•	15	129
	G	EALSKI			
United Kingdom			- 60	5,108	113,308
Canada .				215	761
United States .	•		63	315 3,818	91,583
Total		•	r30	,241	205,652
	SE	AL PE	LTS		
Canada	•	•		455	790

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(F) Great Britain

The imports of undressed and dressed fur skins and fur manufactures into Great Britain are as follows :—

	UNDRESSED RABBIT-SKINS									
Country.	Qu 1913	antity No (00 1921	00) 1922	1913	Value £(000) 1922				
Belgium	11,932	3,011	4,649	130	1921 60	1922 I I O				
Total Foreign Countries	12,383	3,845	5,37I	135	91	139				
Australia	53,476	14,596	19,675	473	230	352				
New Zealand	7,404	14,525	9,095	92	353	296				
Total Empire Countries	60,959	29,139	28,820	566	583	648				
Total	73,342	32,984	34,191	701	674	787				
Re-exports	48,443	33,508	29,821	480	729	662				
UNDRESSED SEALSKINS										
Russia		12	IO	24		I				
Norway	73 43	54	69	24 16	4 24	21				
Total Foreign Countries	43 122	54 73	97	49	51	41				
Cape of Good Hope .	24	75 12	13	15	20	15				
Newfoundland and Coast	~7		-3	- 5	~0	-3				
of Labrador	110	42		35	14					
Total Empire Countries	14Ó	59	14	55	51	17				
Total	268	132	111	104	102	58				
Re-exports	25	ĭ4	10	12	7	4				
UNDRESSED	FUR SH	CINS NOT	OTHERWI	SE SPECIF	IED					
Russia	Not	389	1,605	Not	108	211				
United States	avail-	5,864	6,982	avail-	1,849	2,409				
Total Foreign Countries	able.	8,196	12,110	able.	2,313	3,261				
Australia	,,	498	1,158	,,	104	256				
Canada	,,	1,078	1,079	,,	920	1,228				
Total Empire Countries	,,	1,918	3,272	,,	1,204	1,879				
Total	,,	10,114	15,382	,,	3,517	5,140				
Re-exports	,,	10,904	12,690	,,	3,819	4,823				
Dressed Rabbit-skins										
Germany	484	410	1,414	18	42	123				
Belgium	1,346	2,871	4,951	36	151	330				
France	692	529	1,053	46	. 60	111				
United States	2	448	2,348		62	198				
Total Foreign Countries	2,857	4,651	11,053	115	34 1	829				
Total Empire Countries	,7	2	16			, I				
Total	2,864	4,653	11,069	115	341	830				
Re-exports	363	683	1,435	18	101	160				

		-						
			Quantity No. (000)			Value £(000)		
Country.		191	3 1921	1922	1913	1921	1922	
Total Foreign	Countrie	s	2 I		13	8		
Total Empire	Countrie	s			And the second se	*****		
Total .	•		2 I		13	8		
Re-exports	•			I	2	3	6	
	Dresse	D FUR	Skins not	OTHERWIS	e Specified	•		
Germany .		5,40	o 747	1,775	941	217	496	
China .	•	1,95	9 805	1,604	315	244	471	
United States		2	2 481	949	4	135	170	
Total Foreign	Countrie	s 8,65	7 2,491	6,158	1,424	764	1,671	
Total Empire	Countrie	s 6	2 267	542	6	160	252	
Re-exports	•	1,29	2 940	1,133	380	449	501	

The exports of undressed and dressed skins from Great Britain and Ireland are as follows :---

0.	NDRESSED INAB	DIT-SVINS				
Country.	Quantity 1 1921	No (000) 1922	Valu 1921	e £(000) 19 22		
Belgium United States	32,101 7,002	40,611 8,989	429 110	775 222		
Total Foreign Countries Total Empire Countries	42,497		584	1,044 		
Total	42,497	51,272	584	1,044		
Dressed Rabbit-skins						
France	42	192	3	15		
Total Foreign Countries Total Empire Countries	128 58	370 20	10 9	27 I		
Total	58 186	390	19	28		
Dressed Sealskins						
Total Foreign Countries	6	19	24	55		
Total Empire Countries Total	6	19	1 25	1 56		
	-	-	•	20		
	r Skins not	OTHERWISE	SPECIFIED			
France	519	516	229	252		
Total Foreign Countries	898	974	406	472		
Australia	56 68	143	15	37		
Total Empire Countries		155	23	44		
Total	966	1,129	429	516		

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UNDRESSED RABBIT-SKINS

LIST OF CITY COMPANIES, EDUCATIONAL AND RESEARCH INSTITUTIONS, TRADE ASSOCIATIONS, LABOUR ORGANISATIONS, ETC., CONNECTED WITH THE LEATHER INDUSTRY

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- NORTHAMPTON TECHNICAL SCHOOL, Northampton.
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GLOVE MANUFACTURERS' ASSOCIATION. P. Tucker (Messrs. Blake & Co., Reckleford, Yeovil).

- HAT LEATHER MANUFACTURERS' ASSOCIATION. Messrs. Kidsons, Taylor & Co., I Booth Street, Manchester.
- NATIONAL LEATHER GOODS & SADDLERY MANUFACTURERS' ASSOCIATION (INC.). B. G. Arthur, Oxford Court, Cannon Street, E.C
- THE BRITISH TANNING EXTRACT MANUFACTURERS' ASSOCIATION. H. McAithur, Bull Lane, Aintree, Liverpool.

Association of Factors, Merchants & Importers of Leather, Hides & Tanning Materials. H. W. Freshwater, 7-8 Railway Approach, S.E. 1.

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- UNITED SOCIETY OF LEATHER PRODUCERS OF GREAT BRITAIN & IRELAND. W. Lilley, "Woolpack " Tavern, Bermondsey Street, S.E. 1.

SPEN VALLEY CURRIERS, Trades' Hall, Cleckheaton.

UNITED PATENT LEATHER DRESSERS' SOCIETY. A. Hardcastle, York Street, Mitcham Junction.

UNITED PATENT LEATHER GRAINERS' SOCIETY. W. McCartney, 67 Kenlor Road, Tooting, S.W.

PROVINCIAL FRIENDLY SOCIETY OF SPANISH & MOROCCO LEATHER FINISHERS. W. H. Stancer, Ivy Villa, Greenfield Street, Nottingham.

NATIONAL FEDERATION OF GENERAL WORKERS, St. Stephen's House, Victoria Embankment, S.W. 1.

NATIONAL UNION OF GENERAL WORKERS, 28 Tavistock Square, W.C.

- 2

LEATHER TRADES' MUTUAL INSURANCE ASSOCIATION, LTD., 26 St. Thomas Street, S.E. I. SHOE & LEATHER FAIR SOCIETY. J. A. Craig, Basma House, 13A Fore Street, E.C.

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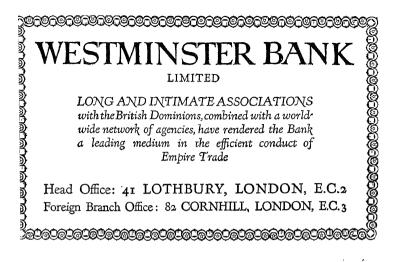
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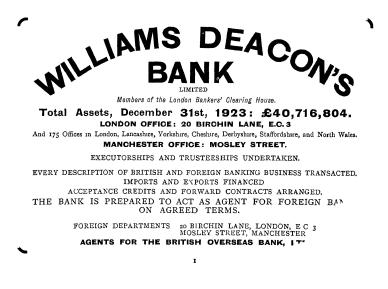
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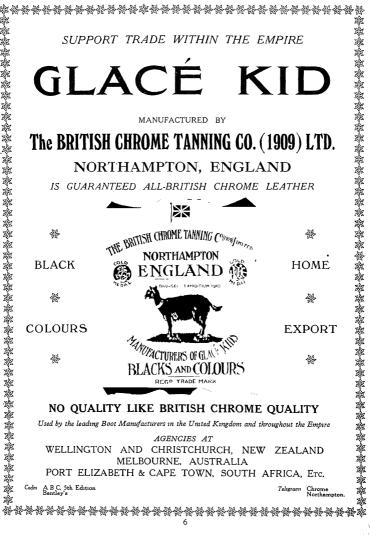
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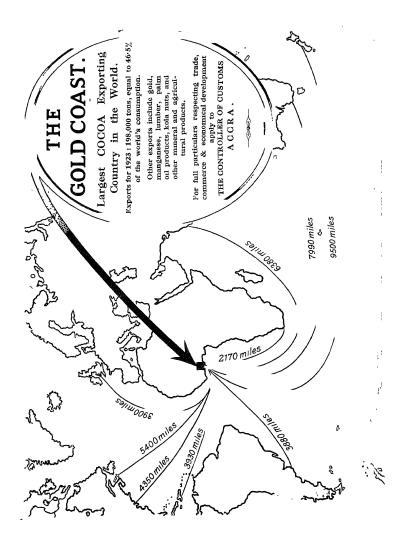
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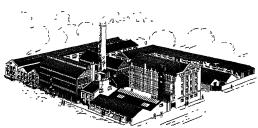
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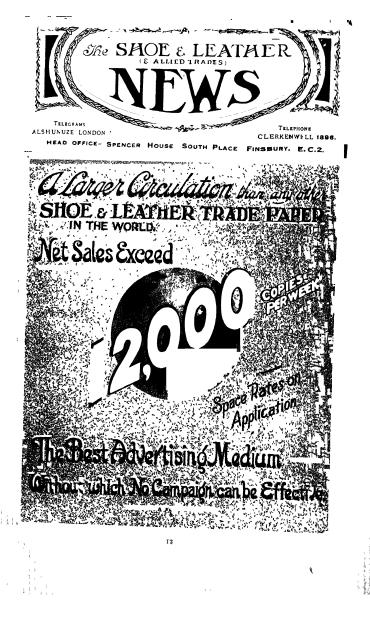
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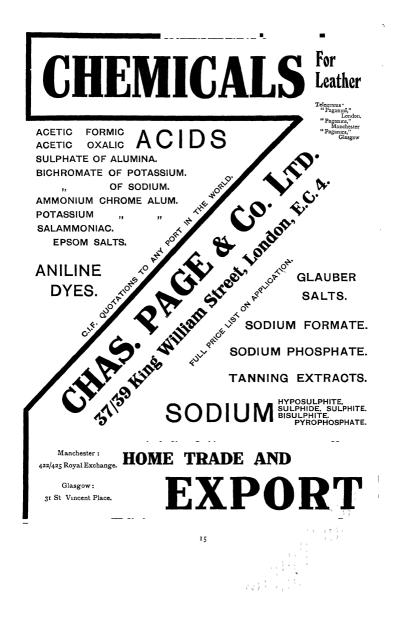


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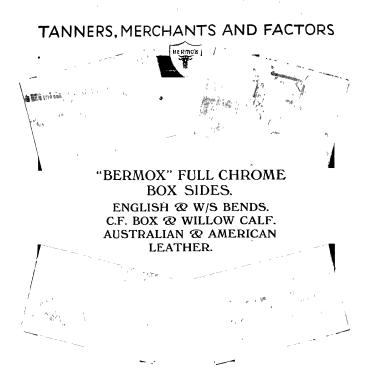
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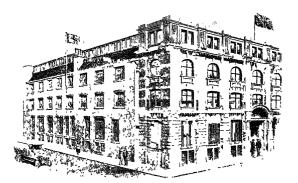
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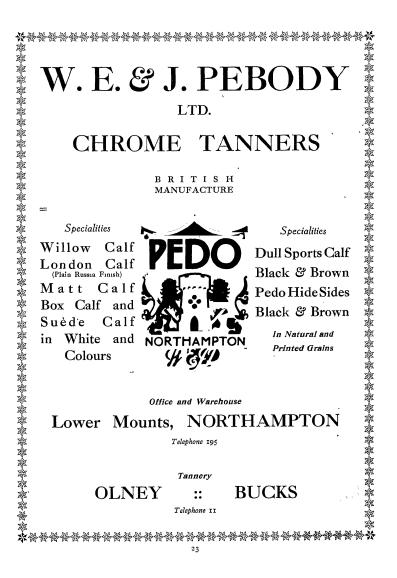
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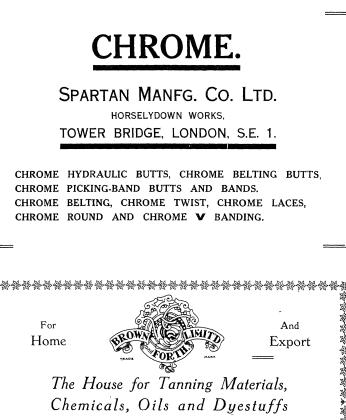
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