THE FARMER'S ADVOCATE.

FOUNDED 1866

Kesources

What has already been written in the previous two issues will serve as a fair idea of the condition of the live-stock industry of the Dominion up to and at the present time. Upon the already accomplished, Canada must, to a certain extent, build for the future. Due, however, to ambition to establish a self-supporting empire, new interest has been directed toward Canada, as a lively source from whence to draw a large portion of the necessary meats for consumption in the United Kingdom. Our opportunity there is not new, but is Kingdom. Our opportunity there is not new, but is larger, less obstructed and of a nature such as it is our duty to fulfill.

duty to fulfill. Fortunately, being part of the new world, we have one tremendous advantage over competitors for British trade; namely, millions of acres of the most fertile soil in the world, an excellent climate for the raising of vigorous, well-doing live stock, a well-watered country and unbeatable cropping possibilities, and last but of much importance, transportation facilities which are in a position to meet the requirements of the situation. It is well, however, to emphasize the necessity of develop-ing our prospective increased trade in meats through a chilled meat service. It is chiefly through this method that we may hope to most successfully compete with that we may hope to most successfully compete with countries not so favorably situated with respect to the British market.

Our Unlimited Acreage.

We have now to consider a subject already intro-duced, that of our resources in land. Exclusive of the Northwestern territory and the Yukon, Canada has a total area of 977,585,513 acres, of which it is estimated that 358,162,190 acres are suitable and available for farming purposes. It is significant that not more than 30.66 per cent. of the available land is at present oc-30.66 per cent. of the available land is at present oc-cupied. It may also be of further interest to know that of the land suitable for farming purposes in British Columbia, 11.23 per cent. only is occupied, in Alberta 18.27 per cent., in Saskatchewan 30.65 per cent., in Manitoba 49.5 per cent., in Ontario 39.32 per cent., in Quebec 35.69 per cent., in New Brunswick 42.34 per cent., in Nova Scotia 65 per cent., in Prince Edward Island 95.66 per cent. In a word, of all the total available agricultural land in Canada there still re-mains unoccupied and unimproved 69.34 per cent. The improved land amounts to 48,733,823 acres. Comparing this with the estimate of land which could be made suitable for farming in Canada, 358,162,190

be made suitable for farming in Canada, 358,162,190 acres, it will be found that only 13.6 per cent. of the farm land in Canada is being utilized for farming pur-poses. There are also districts in the Northwest territories and in the northern parts of the eastern and middle provinces, the possibilities of which for agricul-tural purposes, especially for live stock, are tremendous. Practically one-third of the total land area of Canada or 1,196,803,280 acres are situated in the Northwest.

Acres of	Available H	Farm Land-	
Province	Available Land for Farming	Occupied Land	Balance of Available Land Un- occupied
British Columbia Alberta Saskatchewan Manitoba Ontario Quebec New Brunswick Nova Scotia Prince Edward	22,618,000 97,123,000 93,458,000 24,700,000 56,450,000 43,745,000 10,718,000 8,092,000	$\begin{array}{c} 2,540,001\\ 17,744,372\\ 28,644,877\\ 12,226,500\\ 22,196,140\\ 15,612,590\\ 4,538,001\\ 5,259,800 \end{array}$	$\begin{array}{c} 20,077,999\\79,378,628\\64,813,123\\12,473,500\\34,253,860\\28,132,410\\6,179,999\\2,832,200\end{array}$
Island	1,258,000	1,203,402	54,598

BY F. E. LIGHT.

This is the last of a series of three articles written by P. E. Light, of the Live-Stock Branch, Ottawa. Canada's position as a producer and exporter of live stock and live-stock products has been clearly depicted. In this article Mr. Light points out our live-stock resources and oppor-unities. tunities. At present our live-stock population per acre of arable land is very low compared with other countries. Although at a low point in production there are great possibilities. On the basis of some older settled countries, Canada should have millions of pounds of meat 'o ship to the British market. Read this article and note where Canada now stands, and where she may in the near future stand as regards live-stock production.

With this information before us the possibilities for future advancement in this direction are the more emphasized in the light of the comparisons indicated in the table below as regards the numbers of live stock in different countries per unit of area and unit of popula-tion. Canada will be seen as showing the smallest numbers of cattle from any angle of consideration, even showing fewer cattle per acre than the Argentine Republic.

Numbers of Cattle Per Square Mile, Per Capita, and Per Acre, of Available Farm Land in Principal Live-Stock Countries of the World.

Cattle

Cattle.				
	Per	Per Capita	Per Acre of	
	Square	of Popu-	Available	
	Mile	lation	Land	
Canada	$\begin{array}{r} 2.09 \\ 106.18 \\ 22.12 \\ 3.60 \\ 16.93 \end{array}$	1.13	.029	
United Kingdom		.264	.166	
Argentina		4.688	.034	
Australia		2.815	.005	
New Zealand		1.736	.026	
United States	$\begin{array}{r} 21.00\\ 152.40\\ 61.44\\ 94.18\\ 13.10\end{array}$.691	.032	
Denmark		.830	.238	
France		.320	.096	
Germany		.308	.146	
Belgium		.253	.020	

	Hogs.		
Canada	.97 [.42	.001
United Kingdom.	29.67	.07	.040
Argentina.	3.08	. 43	004
Australia	.24	.16	.0003
New Zealand	2.96	.35	.006
United States	22.71	.67	.030
	127.25	.54	.190
France	21.46	.18	.033
Germany	12.48	.18	.010
Belgium	82.80	.38	.120

Sheep.			
a		.25	.006
I Kingdom.	277.37	.60	.350
tina	70.43	9.75	.110
lia	26.69	17.46	.040
ealand		22.70	.010
1 States	16.57	.48	.020
ark		.27	.070
	78.24	.41	.120
	16.26	.02	.020
m	40.77	. 08	.060
m	40.77	. 0	8

able to note that, on the basis of per unit of population, the numbers of live stock in Canada make no very favorable showing. On this basis we are again at the bottom of the list as compared with such countries as the Argentine, Australia and New Zealand, these countries, as our own, representing the producing countries. The significance lies in the fact that while actually we are at the low point of production compared in the list stork countries. with other live-stock countries, potentially we have the greatest opportunity of them all, the very small numbers of live stock for so great an area of land suggesting our line of action.

Canada has a tremendous area of land suitable to Canada has a tremendous area of land suitable to live-stock production, that has not yet been occupied, and, furthermore, the land is fertile and moderate in price. From a productive acreage point of view, the Dominion has well recognized advantages over the other chief meat-exporting countries of the world. According to the foregoing calculations, if our population were to increase to 25,000,000, and the ratio between rural and urban remain constant the same proportion of land occupied, we could anticipate a live-

proportion of land occupied, we could anticipate a live-stock population as follows: Cattle, 32,622,281 head; sheep, 8,902,870 head; swine, 13,267,048 head. With such an increase, and,

considering that the exportable surplus remains in the same ratio, we could supply approximately 600,000,000 lbs. of bacon, 270,000,000 lbs. of beef and 48,000,000 lbs. of hams and pork.

Ibs. of hams and pork. We are moving in the right direction, for the live-stock industry of Canada is making steady growth under the influence of a marked turning from straight grain to mixed farming in the Western Provinces, while in the older parts of the country the scrub sire is slowly but, fortunately, surely disappearing. By ceasing the practice of exporting our good quality breeding stock, we should shortly be in a position, both quantitively and qualitively, to supply a generous part of the United

we should shortly be in a position, both quantitively and qualitively, to supply a generous part of the United Kingdom's import requirements of meat. In addition to cattle imported as meat into Great Britain, we must not forget the 189,229 head sent to the U.S. A. last year. If a reasonable proportion were shipped for finishing in Great Britain, it would add a very great deal to the out movement

very great deal to the out movement. Whereas the calculation did not consider any improvement in the quality or increased numbers per acre, there is undoubtedly the greatest immediate field in this direction, because every pound of extra finish on cattle being marketed means a gain without too great an amount of extra labor, and each additional animal per acre means added productive power to the soil. Comparisons with the Argentine, New Zealand and

Australia indicate that we can readily increase our numbers on the present acreage, and, further, it is

numbers on the present acreage, and, further, it is absolutely necessary if we are to secure and hold a portion of the trade in the face of such competition. During the fiscal year ending March 31st, 1918, Canada exported approximately ten per cent. of the normal annual beef requirements, and one-tenth per cent. of Great Britain's annual mutton requirements. Comparing the volume of our export meats in connection with our extensive land acreage our viewrous climate with our extensive land acreage, our vigorous climate, transportation facilities and comparative freedom from trust control, it is at once apparent that Canada's live-stock future is before her, and that the filling of a very large percentage of the meat requirements of Great Britain is something that we may well be able to accom-plish within the next twenty-five years.

Canada exported less chilled and frozen meats during the period of the war than any country doing business in that class of meats. As Great Britain imports her meats in a frozen and chilled state, and as Canada's geographical position in relation to her overseas market

JULY 24,

bacon, por first item imports in quality is billion po individual

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the price t b**ut avera** sold on th yearlings pound at old \$15 ea auction ir cattle, an in the ma classes the a pound; at auctio cheese at hay, \$35

Presenting the case from another angle the numbe of occupied acres per head of cattle, sheep and swine, is as follows:

Occupied Acres per Head of the Present Live-Stock Population in Canada

i opulation in Canada.				
	Cattle	Hogs	Sheep	
British Columbia.	10.31	63.81	56.08	
Alberta	10.49	29.49	53.42	
Saskatchewan	22.39	54.95	13.48	
Manitoba	16.37	42.96	89.38	
Ontario	7.72	13.40	22.82	
Quebec	6.47	15.65	16.28	
New Brunswick	15.82	56.85	32.41	
Nova Scotia	12.91	77.08	20.24	
Prince Edward Island	10.88	29.48	16.47	

NOTE .- Figures for Belgium and Germany January 1st, 1913.

By way of comment upon the preceding statement there is one feature which appears as more than ordinarily significant. It is to be expected, of course, that Canada on the basis of per unit of area would compare unfavorably with other countries, particularly the older settled countries, such as the United Kingdom, Germany and Belgium. On the other hand, bearing in mind the congestion of population in these countries, it is remark-

Estimated Number of Live Stock Canada could raise upon Available Lands not now Occupied, by Provinces, if there were sufficient population to care for them. (Live Stock Population of Occupied Land used as a Basis for Calculation.)

Provinces	Available Land for farming not Occupied	Cattle	Swine	Sheep
British Columbia Alberta Saskatchewan Manitoba Ontario Quebec New Brunswick Nova Scotia Prince Edward Island	$\begin{array}{c} 79,378,628\\ 64,813,123\\ 12,473,500\\ 34,253,860\\ 28,132,410\\ 6,179,999\\ 2,832,200 \end{array}$	$\begin{array}{c} 1,947,429\\ 7,567,076\\ 2,894,735\\ 761,973\\ 4,437,028\\ 4,348,131\\ 390,644\\ 219,380\\ 5,018 \end{array}$	$\begin{array}{r} 314,652\\ 2,691,713\\ 1,179,492\\ 290,351\\ 2,556,258\\ 1,797,598\\ 108,707\\ 36,743\\ 1,852\end{array}$	$\begin{array}{r} 358,024\\ 1,485,934\\ 303,602\\ 139,555\\ 1,501,045\\ 1,728,035\\ 190,682\\ 139,930\\ 3,315\end{array}$
Total	248,196,317	22,571,414	8,977,366	5,850,122

makes a chilled meat service a necessity, it is imperative that we at once provide facilities for such a service.

The following table gives Great Britain's import requirements of meats during normal time. Surely we are in an excellent position to fill a large portion of the needs of the Motherland if we put forth the necessary effort.

> Food Supply of United Kingdom. Average of Five Years, 1909-1913, inclusive.

	In Po	In Pounds		
Commodity	Home Grown	Imported		
Beef and veal Mutton. Lamb. Bacon. Hams.	650,034,000 79,821,000 176,400,000	408,340,003 184,779,000 511,830,569		
Pork. Meat Offal Poultry. Eggs (dozen).	670,320,000 13,230,000	102,050,749 74,914,560 30,780,000 191,554,954		
Cheese Margarine Condensed Milk	251,370,000 66,150,000 132,300,000	456,435,000 257,985,000 129,213,000 121,716,000		
Lard Pork and Lard	198,450,000 890,820,000	198,450,000 887,245,878		

It is not likely that the United Kingdom will require as heavy a volume of imported meats as before the war, owing to the progressive domestic policy pursued under the shadow of starvation during the years of 1917 and 1918. Her requirements will, however, still continue tremendously heavy. Word from representatives of Canadian agriculture in the United Kingdom indicates that there exists a particularly favorable outlet for

60 cents from 16 London to-day. The ad doubling the farme prices and now it is Canada, i and legisla 30 per ce did befor offered fo has to be simply ha \$150 to farmers 1 the Gove plows wo shares ar for cultiv farms roi and fore still a lo saw the a fine big ours. In Ca tection.

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