

EAST INDIA.

No.

37726

37126

(Subject)

and of practice.

1905

Blue Stock and its Diseases

Observations on

(Minutes)

Mr. Read

to offer 10 bushels of  
grain " mostly hard & the  
advantage will be 5000 acres to  
the Board's discretion falls to  
the ground.

Arch with thanks & copy a  
copy will be sent to the Compt.  
Loring is also as to the  
of giving leave.

and send copy to the Compt.  
will copy of last His Maj's  
letter & of our copy telegraphed  
regarding him. Please let  
H. A. S. know if part 1 to 9 of the

letter. And at the corner of fourth  
and long from us of the ticks  
refused to be party  
(One cannot but infer from this  
letter that our friend returning  
staff as far from complaint as it  
most probably a person "Texas  
fever" as officers to be a  
well known remedy)

19/10/1905

3712

All other communication should be  
addressed not to any individual by name,  
but to:

THE DIRECTOR OF AGRICULTURE AND FISHERIES,  
49, WHITEHALL PLACE,  
LONDON, S.W.

And, where necessary, the Number, Date, and Heading  
of any letter or paper to which they apply,  
for information on different subjects  
from separate letters, and  
for copies of documents etc.

10/10/1905  
10/10/1905  
G.O.  
37126  
10/10/1905  
217

BOARD OF AGRICULTURE AND FISHERIES,



17249 9th October 1905.

A. 14681/1905

SIR,

I am directed by the Board of Agriculture and Fisheries  
to advert to Mr. Antrobus's letter of the 4th inst., No. 34109/1905,  
and, as requested, to make the following observations for the con-  
sideration of Mr. Lyttelton.

2. In connection with Mr. Mann's memorandum of the 25th  
August last dated from Nairobi, it seems desirable at this point to  
call out that the two terms "Tick Fever" and "Redwater" are applied  
to the same disease; "Tick fever" because it is indirectly spread  
by ticks, and "Redwater" because the most typical symptom is blood-colouring matter in the urine.  
These terms have been discarded, in technical literature at least,  
because they tend to confusion in the lay mind, and because they are  
commercially objectionable. The first is objectionable because  
other febrile diseases are also carried by ticks, the second is  
objectionable since it is in the minority of cases that one sees the  
symptom of red urine, and laymen are apt to believe that the animal  
is suffering from a different disease owing to the absence of the  
symptom which originated the name. It will prevent confusion if  
the term "Texas Fever" be used instead of the above two names, since  
no one is decided upon the disease to which "Texas Fever" applies.

3. The Director of Agriculture states in the above-mentioned  
letter that his belief that there is little or no Redwater in East  
Africa, and that under certain conditions ordinary Tick-fever is not  
very deadly. It will from the above explanation be clear that he

is Under Secretary of State,  
Colonial Office,

S.

the name of the disease as two distinct maladies, and it should be explained that cattle born in a Texas-fever country acquire a degree of immunity in respect of the disease. Such cattle show symptoms of red urine - that is to say, symptoms of the stage of the disease. The causal parasite remains in their blood, however, for years, and they infect the ticks which suck upon them. It is in this way that the infection of a pasture is kept up for an indefinite period. When these cattle are submitted to adverse influences such as a sudden change of climate, or starvation, or want of rest, their natural and acquired forces of resistance, which were formerly powerful enough to hold the parasites in abeyance, are diminished, the parasites gain the upper hand, and the animal becomes ill, not necessarily with symptoms of red urine (Red-cell), but more frequently from breaking up of the blood cells due to chronic anaemia. From the statement in question by the Director of Agriculture (to the effect that Redwater is uncurable, & that Texas-fever benign), it appears that the disease called Texas-fever is leaving in East Africa as it has done in certain other countries, and that variation in the symptoms has resulted in the usage by laymen of different names for the same disease. This seems probably owing to every new country, and creates initial difficulties for the scientific investigator when diseases come to be individually studied.

It is clear from the Memorandum in question of the Director of Agriculture that the disease known as Texas-fever has existed in East Africa for a long time, otherwise it would not be so widely distributed nor would the cattle of the country be so easily tainted, and it is also clear that its wide distribution follows on the movements of these same animals which harbour the parasites in their blood and infect ticks with they go from one part to another of a tick-infested country.

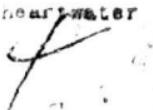
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Adverting at this point to that portion of Lord Hindlip's despatch to the Under Secretary of State of the 22nd ult. which cites my statement that cattle-dipping has been found most effective in South Africa and Rhodesia for the prevention of Tick-fever, I am to assure you that Lord Hindlip, be warned that no dip yet prepared has been found really effective for the destruction of ticks. It is true that arsenical dips are usefully employed to diminish the number of ticks on a badly infested pasture. That is to say, one collects the ticks from the ground by giving them the opportunity of going on to cattle, and one dips the latter in an arsenical bath, with the result that a certain number, at least, are destroyed. Dipping operations were kept up every fifteen days for a number of years, and if there were a large number of cattle on the ground, a result which could easily result in the quantity of one species of tick (the cattle tick) which is a carrier of Texas-fever. This tick, however, can never be annihilated by dipping the cattle, because it lives on other hosts including birds and vermin. The other species of ticks, those, for example, which stay on a host for only five days or so, cannot be greatly reduced by dipping, because it is impossible without many fatal accidents to keep cattle in a strong arsenical bath frequently enough to catch a large proportion of such ticks while on their hosts, and none of the known dips will keep ticks off an animal for more than a few hours. For further information on this point Lord Hindlip might be referred to the Report of the Agricultural Department of the Transvaal for 1904. Apart from these defects in the dipping proposition, however, there are, first reason why a farmer in a country like East Africa should not be so haled up on the ticks on his farm, although he might attempt to do so, in view of their numbers, if they constitute a pest per se. It is reasonable to expect that even any considerable portion of the area of the country will never be freed from ticks, until the land has been under cultivation, be it except that the natives would adopt a similar method of cattle even if the majority of white settlers were to do so.

If we can calculate above that cattle torn in a country where Texas-fever acquire a high degree of immunity, it would be reasonable to suppose that this disease does not affect cattle over the age of 18 months, and that it is only found in the susceptible adult. It has also been observed that the distribution of infected ticks is a very wide one.

If true, a farmer who far reduces the number of infected ticks on his farm, it is highly probable that the stock bred thereon will remain in robust health owing to destruction of the agent of infection engorged with disease. This could probably not be of much use were it not common to keep cattle on one and the same farm until ready for the butcher. Cattle, however, are, in such cases, often sold off (or drafted) and they pasture anywhere and for a long time. It follows from this that many of the cattle which have been taken to such places would have the same drawbacks as newly imported animals from Malaya; a large number would die of the disease before they came in contact with the infected ticks, and many others would succumb to them. It should never be forgotten that the disease from Texas-fever has been acquired at a certain stage of life and must now be slightly tampered with. In this connection the following will may be of interest to Mr. Linton's patients. The methods of artificially immunizing pedigree cattle which export from Great Britain to the Colonies have received attention from Dr. Dauri's laboratory, but the question is not sufficiently advanced to enable a practical opinion to be given at the present time.

Mr. Linton's recent visit at Simla, at Nakashia at an elevation of 10,000 feet suffered from heartwater is one that might be considered as typical of those in the British Colonies in Africa, and it would be well if he were interested to know (1) whether the diagnosis can be made by a veterinary physician, since there are other diseases, such as anthrax, which are similar to heartwater, and which kill cattle in high value, (2) whether it is also due from heartwater



sheep, or cattle are also very susceptible, and if they do contract the disease it is that the disease of sheep to which Mr. Johnson refers is not to heartwater; and (3) whether it is beyond question that a sheep contracted the disease on the high veldt, and whether in the country where they were possibly pastured shortly before they came to Naivasha. The tick which carries heartwater is the *Ixodes persulcatus*, one which can easily be identified by its variegated sides. If I could examine female ticks and others from sheep and cattle sent to the Board, it would be possible for their Veterinary Department to supply more definite information. These ticks should be sent alive with full information as to the species of animal from which they came, whether from sick or healthy animals, and the local district.

d. Turning now to the subjects other than Tick-fever raised in Mr. Phillip's letter of the 22nd ult., I am to say in connection with his proposal to inoculate cattle against pleuro-pneumonia, that Dr. Macmillan advised that the best method is to use the pure virus.

e. The question of compulsory dipping of sheep for scab, to which Mr. Phillip refers, is one which requires very serious consideration in a country where the human population is a mixed race. It is well known that the official experience of their Veterinary Officer (Mr. S. Stockman) in South Africa may be relied upon in connection with any action to be taken against that disease in East Africa. Compulsory dipping is an efficient dip for the eradication of scab, provided that it can be ensured that the expensive machinery of administration exists for carrying it out. Mr. Stockman's experience of African natives has been that they must be convinced by practical demonstration that a new measure is for their advantage, as will see that his suggestion is adopted. On the other hand there are chiefs who refuse

to be converted to modern ideas of hygiene, and there are natives  
as live in small Kraals very far distant from the immediate eye of  
their nominal chief. The latter are exceedingly difficult to police  
in matters of this kind. If a compulsory dipping law be introduced  
at the present time, it will probably be obeyed only by the white  
settlers, who will after a time desire the administration to enforce  
the law amongst the natives, on the ground that while the law forces  
the white man to dip his sheep, it gives him no protection against  
re-infection by the sheep of the natives. Mr. Stockman cannot  
advise that such legislation should be instituted until such a time  
as the administration are prepared to enforce it, and to provide  
the machinery for carrying it out. This would involve the provi-  
sion of dipping-places in various parts of the country and the  
organisation of a numerous staff of inspectors.

10. In connection with Lord Milner's observations on the  
limit of the area of a free grant, the Board has decided to submit  
for consideration whether the offence might not be made less elastic  
according to the quality of the land and the purpose for which it  
is suited. For example, a grant of 1000 acres in a well-watered  
district is exceedingly generous, but there are probably worse  
watered districts which, although suitable for sheep-farming, are  
not of much value for crop-growing. It is to be presumed that in  
some of these districts, as is the case in the Transvaal, the land  
will not carry more than one sheep per three acres. The sheep in  
the Protectorate are probably kept for wool-growing and represent  
very little value, say 5/- to 10/-, for butchering. At this rate  
an owner with 1000 acres will have to limit his flock to about 300  
sheep, a number which as wool-producers will hardly provide him  
with a sufficient income to live, if he <sup>has</sup> to confine his efforts  
to sheep-farming.

I am, Sir,  
Your obedient Servant,

J. H. Selborne

Secretary.

37126

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Mr  
37126



DRAFT

S.A.P. (No 473.)

26th October 1955

D.A.R.

Par

Dear Mr. Lonsdale

MINUTE

This 30th of

asked me to go to the  
offices of the  
Ministry of Finance  
and the Bank  
of Rhodesia and  
B. & N. S. P. and to  
transmit to you  
for your information  
the accompanying copies  
of documents, as noted in  
the margin on the  
subject.

Mr.

Mr. Antobius.

Mr. Cope.

Mr. Lucas.

Mr. Graham.

Mr. Gossling.

Mr. Duke of Marlborough.

Mr. Lyttelton.

20th Oct to CO 12 P.M.  
20th Oct to CO 12 P.M.  
20th Oct to CO 12 P.M.  
20th Oct to CO 12 P.M.

15. 56 R. x no 343.001 37126

I should be glad  
if you would care  
to give me your  
opinions of the  
agreements referred to  
in the 4<sup>th</sup> para of  
the letter from the  
Board of Agriculture  
to be sent home in  
the manner suggested.

You should also  
inform Lord Hardinge  
who, I understand, has  
returned to India,  
but has received &  
read his letter of  
the 22<sup>nd</sup> of Sept<sup>r</sup> &  
you should communicate  
to him pars 2 to 9  
inclusive of the letter  
from the Board of  
Agriculture, omitting  
the last para. H.

(Hand for Sir Henry  
B. Markland)

should at the same time  
be informed that His  
Majesty is now carefully considering  
the practicability of  
allowing the Indian  
Government to proceed  
with the construction  
of the proposed  
canal, and that  
a Committee has been  
appointed to consider  
the question of  
the proposed  
canal.

Very truly yours

p. J. G.  
H. 2

I should be glad  
if you would cause  
specimens of the  
specimens referred to  
on May 14<sup>th</sup> for me  
in the letter from the  
Board of Agriculture  
to be sent home in  
the manner suggested.

You should also  
inform Lord Hardinge  
who, I understand, has  
returned to Africa,  
that I have received  
recently his letter of  
the 22<sup>nd</sup> of Sept<sup>r</sup> &  
you should communicate  
to him parts 2 to 9  
inclusive of the letter  
from the Board of  
Agriculture, omitting  
the last part.

(Signed affecly yours  
R. Mackay)

Should at the same time  
be informed that His  
Majesty is carefully considering  
the practicability of  
allowing the collection  
and the distribution  
of the specimens  
which are to form  
part of the permanent  
collection of the  
British Museum  
of Natural History  
of the specimens  
in part exhibited  
at the exhibition  
of the products  
of the British  
Empire.

R. Mackay.

P. J. O.  
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