

EAST AFR. PROT.

8701

Rec'd - May 14, 1943

Agaricus B.

1913

3 March

Last previous Paper.

~~✓ 7879~~

Rinderpest Serum -

Consider it certain that large quantities will be required in the future. States as to buildings & appliances necessary for the production of large quantities. Provides generous estimates with supplementary tables detailed in this letter if sent.

~~H. B. Stanley~~. Mr. Lambert
S. A. Just
~~S. J. Anderson~~
We had dinner with
Mr. Montgomery this afternoon.

The following were the main points which emerged at the discussion:-

1. The East scheme must not be carried through regardless of what may be done in S Africa, as to which see ^{6 May} ¹⁹⁵⁴ pp 32.9 & 32.10 specie's report.

2. If it is decided to have a serum station for South Africa, no serum can be made until Windhoek actually reaches

168,151). Wt. 29.897—58.
41,000. 11/12. A&E.W.

Next subsequent Paper.

4

~~202~~ 102-1

that country - because you cannot send the virus for its preparation from one country to another : the virus will not live at most more than 7 days.

3. If it is decided to have a P.A. serum station, it will in all probability be next December before they can get to work.

4. The present sources of supply of serum are India - Cairo - Nairobi and ? German East Africa. H. Montgomery did not say what progress, if any, the Germans had made with the institution of a serum station in S.E.A.

5. As to cost of serum, that produced at Nairobi is the cheapest. Cairo charges 3/- & India charges 4/- for a dose (50 c.c.) ; Nairobi charges about 8/- for a dose (20 c.c.). The size of the doses, it will be noted, is different : but there is a distinct

difference in form of Nairobi - as the Nairobi dose though smaller may well be as efficacious as the larger Cairo dose. The exact amount of serum required in a dose will vary with local conditions.

6. Rhodesia may be regarded as having 'come to stay' in S.A. In India it has existed for many, many years - & you cannot hope for its entire disappearance from S.A.

7. The probable requirements of S.A., Uganda + Nyassaland

may be allowed at ~~one-third the area or less~~

of 300,000 doses of Nairobi serum. It is impossible to estimate with any accuracy what demand will be made for serum during a year, but this total number of doses should suffice - & allow possibly a margin for sale (at a profit) to S.E.A. or Congo Free State.

8. It appears to be desirable to

to make provision for S.A. Uganda
Nyassaland from the Nairobi
depotary, leaving out of course
9.8 a. in Congo Free State.

9. As to finance - Mr. Montgometry
thought the estimate in para 6
of the D.P. could be reduced,
if 300000 instead of
600000 doses were to be
made annually, in the following
items.

European Assistants

Glosp. apparatus etc.

Purchase of cattle

Feeding of cattle

The last-named item - he
suggested a considerable
reduction - e.g. £2500 instead
of £2200.

But other items must be
added as in his letter of
13 March -

e.g. Steam & Electrical Plant - £850.

Installation of gas. 200

Housing for assistants (?) 400.

Housing for animals. (?) 1400

Probably the total figure wd.

therefore remain somewhere
about £6000 as originally
estimated by the Governor.

154

10. Serum. Mr. Montgometry stated,
wh. last all right for 12
months under field condns.
for 2-3 years under laboratory
conditions.

=

2 off. tel'd beneath for course
or verbal instructions.

A.D.C.

19/3/13

So far as our Pstt. are
concerned I do not think
that we shd. complete neither
by coming into any scheme for
the production of serum in S. Africa.
We have got a serum producing station in
being at Nairobi & we can probably produce
it cheaper than anyone else. If ~~anywhere~~
we find that we have more serum than we
require at Nairobi, we shd. of course be
happy to dispose of it to S. Africa. Serum
S. Africa. or Congo, at (say) cost price
+ 20% for admin. charges - & even then, it
will probably be cheap at the money.

Arg. Dr. T.O.
~~Arg. Dr. T.O.~~

A similar basis of contribution might be
adopted in the case of Uganda &
Kenya

A.D.R.

20/III

TELEPHONE: 334 P.O. HARROW.

STATION FOR PARCELS:—
SUDSBURY AND WEMBLEY, L & N.W.R.

2 Cpl. 155
LABORATORY OF THE

BOARD OF AGRICULTURE AND FISHERIES.

ALPERTON LODGE,

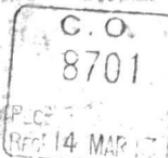
WEMBLEY S.O., MIDDLESEX.

13th: March 13

The Under Secretary of State,

Colonial Office,

Sir,



I have the honour to acknowledge receipt
of your letter No: 7879/1913 of March 12th:, forwarding a
copy of despatch from East Africa, No:91 on the subject of
Rinderpest.

2. From the previous history of this disease in Africa it
is almost certain that large quantities of preventive serum
will be required in the various Colonies and Protectorates
adjacent to East Africa, and the demand in the country itself
is increasing owing to the continued presence of the disease
in the outlying Native Reserves where efficient control can-
not be guaranteed.

3. While some provision for the manufacture of 150,000 doses
has been made in the draft Estimates 1913 - 14 I would observe
that certain items necessary to their production have been
deleted. In the draft Departmental Estimates which were
submitted to the Director of Agriculture on September 11th:
last I asked that the following items be included under the
head of the Public Works Department:—

Extension to Laboratory	1,500
Steam and Electrical Plant	850
Installation of Gas	200
Housing for Assistants	? [The bungalows asked for]
Housing for animals	750

In the sanctioned Estimates the sum of £2,000 appears
under Vote 31, Public Works Extraordinary, Major Works. This

amount will provide the buildings for serum manipulation and the greater proportion of the accommodation for animals, but the necessary plant, i.e. steam, electric, and gas wherewith to produce the serum, and the house accommodation for Assistants is lacking.

It has only been with the greatest difficulty that 100,000 doses of serum have been produced annually in the past two years. The difficulty has lain in the paucity of cattle [now provided for in 1913-14] and lack of appliances for manipulating the blood as obtained from these cattle. On a small scale it is possible to obtain a satisfactory yield without mechanical intervention, but only at an expenditure of time and labour disproportionate to the result. For large amounts, such as 150,000 doses per annum, or where the investigation of other diseases requires a devotion of time and labour not hitherto possible, it is absolutely essential that mechanical means be employed.

To meet the requirements of seven permanent Europeans, the Colonist's sons, resident for training, and any temporarily engaged officials only four bungalows exist. The laboratory is situated too far distant [about eight miles] for housing in Nairobi to be of any use, and the climatic conditions make it impossible for a man to retain his health and interest if compelled to live in a fixed tent for more than a few months, even in the dry weather.

4. For the manufacture of the present estimated requirements of 400,000 doses, the above expenditure is more than ever necessary, and in its absence the production of such a quantity of serum could not be contemplated.

The mechanical installation consists of a steam plant for use in sterilisers capable of containing the very large amount of glass ware in daily use and for driving the dynamo for electrical power. The centrifuges for the separation of serum from blood require to have a capacity capable of dealing with upwards of sixty litres of blood per diem. These

can only be efficiently driven by electricity which in addition reduces the danger of contamination by means of dust to a minimum. For use with instrument sterilisers, small apparatus not required to be on the main steam supply and for maintaining the heat of incubators at an exact level, the introduction of gas [an expenditure sanctioned in 1911 - 12], is essential.

The total cost of this installation may be put at approximately £1,000, being about £800 for the steam and electricity, and £200 for the gas.

I notice that His Excellency in para. 6 of his despatch makes provision for accommodation for the Laboratory Assistants; but I consider it necessary to augment the sum [£500] sanctioned in the forthcoming Estimates for accommodation for stock [the balance of the £2,000 appearing as Extension to Laboratory]. Upwards of four hundred cattle will be under observation if the larger amount of serum be required. Our existing buildings cannot hold more than a quarter of that number and the vote of the ensuing year will not suffice for more than an additional 60 or 70. It has been our experience that more and richer serum is obtained from cattle well fed and comfortably housed, while the direct loss to Government, through death and sickness, is considerably minimised.

The remaining figures in the despatch as to Annual Expenditure, appear to be approximately correct, as the cost per dose of serum with this expenditure is shown to be between 40 and 46 cents.

5. Should it be the Secretary of State's intention to sanction the continuance of Rinderpest serum production at Nairobi, I look upon the Estimates furnished by His Excellency the Governor and the supplementary items detailed in this

letter as expenditure absolutely essential.

I have the honour,

Sir,

Your obedient servant,

R. Eastwood

Veterinary Pathologist,

East Africa Protectorate.

May 8702 Bal

~~Top secret~~

DRAFT.

Telegrams

Governor

Nairobi Govt

WPS

2/3

March 1913

MINUTE

Reed 17/2
Bacon 19/2 [7/11] - Your despatch 12 February No 91

Mr. Reed 20/2

Sir A. Dibbs.
Sir H. Lambert to understand that South African

Sir H. Just.

X Sir J. Anderson. 20/2
Lord Emmett.

Mr. Harcourt.

are about to consider

25/2

question of establishing

26/2 serum station for supply

of South Africa, and

sharably neighbouring countries.

I am informed

but I would ~~should~~ believe

village

that serum cannot

be

top border line
top of tree

undrained

camps

be manufactured
until you expect
actually reaches
~~the country~~ ^{where it is to be}
seems delay would
in any case occur
before new serum
station could be
started ~~stop~~ am
disposed to make
Nairobi centre for
serum production for
East Uganda
Kenya ^{territory} this
would mean probably
annual output ~~of~~
300,000 doses ^{wolfdog} ^{silvery gray}

combitebam ^{city}
To you concern if so
estimate in here ¹⁶⁰
resalate ^{silvergray} ¹⁶⁰ ^{hatched}
would require revision
been discussed with
Montgomery who
agrees but considers
extra provision essential
for machines
pietola ^{inquiries}
£850 gas installation
£1200 housing
abdicant
accommodation probably
pickup ^{abdicant}
£200 and stock accommodation
no price ^{but faced} £1200
£750 ^{stamps} ^{telegraph}
apply as soon as
possible and at

earbotis

In Sat Uganda

and Nyamoland

silvergray annually

W.H. as to

emproado

establishment of

serum station in

Rhodesia are

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informed that serum

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reaches the country

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where it is to be made

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162

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Reply from for sat

Parcours