E. AFRICA 1026 1634 TANGANYIKA 5 FEB 1926 13th January 1986. RON VETERINARY RESEARCH Enclases copy memorandum by Chief Veterinary Officer dealing with the recommendations of the E.A.Commission and comments on one or two points. MINUTES Su n X-1632 94920 22-2-26 Paper

GOVERNMENT HOUSE,

X. 1633 3200 1986.

LANGANYIKA TERRITORY

Signed a

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No.445 of the 7th of August asking for my comments on the recommendations of the East Africa Commission as to veterinary research, I have the honour to transmit to you a copy of a memorandum by the Chief Veterinary Officer on the subject.

- the incorrectness of the remarks in the Report of the Commission in regard to experiment for the improvement of stock and co-operation with the veterinary services of neighbouring Dependencies.
- 3. As regards the statement in the Report that the Veterinary Department is better staffed than any other technical department it will be observed that Mr. McCall maintains that his staff has not been sufficient in the past to undertake the many and varied duties which are expected of it. Next year, however, the field

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staff will be up to the requirements of the Department if the draft Estimates are approved, and will suffice for such development as can reasonably be anticipated.

- 4. In regard to the Laboratory Staff the Chief Veterinary Officer advocates the appointment of an Entomologist and also of a Field Research Officer whose special duty would be to tackle the problem of pleuro-pneumonia among the herds in the Massi country, and who would release the Pathologist and his Assistant for other even more important branches of research work. Although on general principles concentration in research is no doubt preferable to separate research departments in each territory it seems to me that as we has Mpwapwa, which no one would think of closing, a good case for adding these appointments to the Tanganyika Staff has been established.
- 5. As stated by the Commission it is not possible in this Territory to bring the veterinary and medical remearch work into one building.

I have the honour to be, Sir,

Your most obedient, humble Servant

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GOVERNOR.

8.42/1. 27th Cuteber, 1925.

the Hon' ble,

The Chief Secretary to the Government, Dar-es-Selassi.

I am glad of the opportunity afforded of commenting upon page 54 of the East African Commission Report, as misconceptions seem to have crept into the context and certain of the findings would appear to be based on somewhat inadequate data.

- expressed by the Bast African Commission to the effect that the Veterinary Department are better staffed than other Technical Departments in Past Africa: pevertheless it is maintained that the has hitherto been Veterinary Department of Tanganyika/is understaffed and inadequate to permit of the thorough performance of its duties. Of the truth of this contention the figures below it is thought, will prove, and the reasons adduced will explain.
- 3. Tabulated hereunder is a list of the Pield Staff, of the number of square miles to be supervised, and of the numbers of livestock to be treated and enfaguarded. The figures would seem to speak for themselves, even though admittedly much of the Territory contains little or no stock, since such areas must also be patrolled.

Staff.	No. of squar miles to be supervised per Man.	Mo. of him stock per	Potal area Pades Sarryll- lames	Noted No. of Livestock in the Recritory
4 Field Veterinary Officers on leave				
7 Field Veteriness Officers or duty	f).##	1.142.857		
5 Stock Inspectors on leave		Programme Comments		
11 Stock Inspectors on duty 20 Quaranti	33,909	727.272		
Guards on leave or transfer	-			
120 Querant Guards on duty	3,108	66,666		
-			373,000 Square miles	4,000,000 Catile 4,000,000

of Plus one new Veterinary Officer who has just arrived on first appointment.

Flus three new Stock inspectors she only arrived last month.

difficulties under which the Veterinary Departmental staff lebour, in their efforts to control animal disease, it is nearesty processary to remark that, whereas natives can come to the medical man to be treated and can voice their complaints to the Administrative Officer at Rendguarters, the cattle must be personally visited by the Veterinarian who has get to find out in such case on the spot what really is wrong. The amount of travelling thus entailed would of itself keep the staff fully occupied even were disease outbrooks meetigible and other duties non existent.

- Then rinderpost becomes rife and entite die Miclosole the Situation becomes extremely trying and the work most arquette. Disease conditions approximating to sinderpost in virulence, rapidity of spread, and heavy attendant spreadity fortunately de not someonly castr as frequently emenget men as emenged mattle. A thousand sattle may dis from eattle plague, yet no one except the unfortunate mative owner, whose wary existence depends on his animaks, is seriously perturbed, and the Vetarinary staff is left to plough its weary furrow horsesed by dissatisfied traders and astive quarenties breakers. If, however, 20 men die from human plague the whole sountry is in a ferment; every one hastens to assist and shearfully submits to all manner of necessary restrictions, so matter hew verntious.
 - A matter for regret, that the time of the very regret, that the time of the very regret, that the time of the very regret is for practical purposes thatly escapied in dealing with someon animal discusses. Since the common discusses in the past have accounts for fully 90% of the total preventable death rate. It is well that such is the same and that the pistrict Veterinary Officer should be so suplayed. When we have eliminated the 90% factor we shall tasks even more extensively than hitharts the remaining 10%. I would, however, remain that at the present moment even the more obscure discusses are reserving attention both in the field and in the laboratory.

BUGENICS - RECEDING EXPERIMENTS.

7. When in Dar-we-Selam the numbers of the Commission were invited by me through Majer Church to visit the Government Stock Farm, Pugu Road; ("Manes Farm"), four miles from the town. It is regretted that lack of time apparently deburred this visit from unterialising since much first hand information on the subject might have been gained and any uterederstanding with regard to the subject abvisces.

- 6. It is realised that a report such as that under review must, by reason of its nature, generalise, but it is unfortunate that such a missequentian with regard to our Departmental attitude towards animal husbandry should have arisen and that the work already done in this Territory in connection with the breeding of immune eattle and the improvement of native stock both by the introduction of from blood and by relection as applied to the indigenous solu should have been overlacked. More especially as I parturbed as hitherto it was considered list the Tangangika Veterinary Department was premier is such work in as far as Veterinary Departments in Africa are concerned.
- Experimentation into the field of animal sugeries to be profitable takes time and earnest be runhed if authoritie data is sought.
- the first generation can be re-mated a period of about 5 years must elapse.
- 11. Even after several generations have been bred, sulled, selected and re-mated, it would still be resh to attach more than relative importance to the tentative somelusions arrived at.

- 12. The Vaterinary Department of Tangeny the has only been in existence for five years and during the first two years of this period, the shaff was mayely published.
- 13. These years ago the foundation of the hards and flooks, now accommodated at the Experimental Stock Farm in Page Road, was hald by the purchase of 60 selected matire care from Singian.
- mitable native sires, on arrange and a Priceland bull were imported from Kenya and a commensement was made. The work has been gratematically extended until to-day some 500 eattle, 300 sheep and 200 goats divided into suitable hords and flocks are mated to selected indigenous and also to imported sires.
 - 15. The following bords and flocks are at present under observation and records of results will in due course be published.

Mative Zebu Herds.

- (a) Fifty selected yellow Maclaum nebul cows of dairy type mated to a mative bull with a view to breeding to standard type. Gulling is being practised and milking qualities festaged.
- (b) Fifty nelected white Bingles sales some mains to a built of the same type with a view to improving milk production these are also being bred to standard.
- (e) Fifty gray sabs sows principally derived from the day arid areas of Ugogo and Massiland. Endeavours are

ere being made to improve the etandard and increase the militime properties of the herd by selection of sizes and by culling the young steek while at the same time preserving the matural hardiness of the breed.

Grade Cattle.

- (d) Seventy red Iringa seve mated to an imported red Afrikander buil, the object in this hard being to increase and improve the beef type without impairing the natural suitability for the poorer districts of the Territory.
- (e), (f), and (g) Three herds each of
 fifty Singida make cows mated to 3
 Frienland imported bulls with the
 object of increasing milk production
 in the better pastured areas of the
 Territory and for producing grade
 sires for experimentation and
 distribution to the natives of such
 amona as are deemed suitable.
- (h) and (i) Two herds, of fifty such, picked solutions with two pure bred Ayrenize bulls, the aim being to attempt the production of a hardy grade daixy type of sattle for the higher colder altitudes. As an experiment high grade bulls have been stationed at Dedoms and at Singida to stand at stud free of charge to native owners. If this impovation proves successful the scheme will be extended.

And briefly the grater Boortents

(a) Spirty Mass-housed ones from the Shirty cope Area mater to an imported vocaled Payattal Page.

(b) pirty brown Break syste maket se

(e) Three flocks, sack of fifty
Ehinyanga mative even, mated to imported
Rompsy your for matter production and
with a view to increasing the size and
hardiness of the breed.

17. Coat Breeding and Grading Experiments.

- (a) Two flocks of native goats mated to four Appers imported goats.
- (b) Fifty native swe goats mated to an imported Swiss goat.
- 18. About a hundred and fifty European grade calves, Ayrshire and Friesland have already been born and a good crop of lambs and kids is anticipated.
 - of eattle, sheep and goats used at stud have also been imported to form the nucleus of pure bred hards and flocks of European animals.
 - donkey has been attempted and one sebre mare is due to feel to a Massat donkey within a mouth of the date of writing.
 - In addition to these activities an attempt has been made to mate the wild African burrale to the Indian burrale with the object or evolving a bread tolerant to trypassement for use in the fly belts of the ferritory.

 Unfortunately, the young Arrisan burrale died, the result of an assident just when he reached

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readed by years of age. In collaboration with the Game Department encourage are being made to estab buffals salves in the fly belts with the object of remains our amperiments in that direction.

- 22, At present the purchase and importation of Indian Sobu sattle of the Krisham Valley type and buffalo of known milking properties is being negotiated with the Veterinary Department of Bombay.
- 23. As sen readily be understood, the whole question of animal sugeniss is one in which it behaves us to move with the utmost caution and to be sertain of our ground work are attempting to build up a superstructure which may ultimately prove most unsuitable.
- 24. Especially to be borne in mind is the influence which local conditions, climatic and dictotic, exart on the type of animal suited to a given area. In no place in the world is "Darwin's law of environment" more inexprable than in Tropical Africa. It can be accepted as a general axiom that the type of demostic animal encountered in any part of Tangangian is the product of climinative selection and is the animal most suited to the conditions of life under which it thrives.
- In order to avoid disappointment, it is necessary to adopt measures directed towards the amelioration of the conditions under which dementicated animals are reasonable with before improved strains can be introduced with safety into the sphere of arrivan livesteek acommiss.

- augment the natural foodstuffs available, aspecially during the dry season, and to educate the native owner along lines of better stock management. Both these processes must be gradual and must symphropies, as it would be disastrous to allow the improvement in the broad of livestock to outstrip the improvement in the house of livestock to outstrip the improvement in the methods of feeding and management.
- 27. The most valuable attributes of the ordinary native domesticated animals of the country are those which are constitutional and atmostman physical hidden rather than the ones which reveal themselves on the surface and justification exists for regarding as of primary importance those associated with immulty to disease and ability to survive under unfavourable conditions.
- 28. From the foregoing rearis it will be seen that data solely deduced from the study of milk records and the figures revealed by avoirdupois scales, unless intelligently interpreted in relationship to available food supplies and loss! conditions, will only furnish information of restricted value.
- 29. It is obvious, for example, that the English Shorthorn with his level lines, his capasity for carrying beef on the sites of the best "foints", his fattening empablistics and the many other attributes which so endear him to a midland farmer, is at a decided discount is areas where ability to survive on a few mouthfuls of thorn bushes and to travel 25 miles per day to water-are the qualities that really count.

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- Jo. It is gratifying to observe that the laboratory at Epopus moto with the approval of the Commission, but I would like to explain that the laboratory when taken ever by the Dritish Administration was in reality only the sheleton of the present Institution.
- 31. The buildings have all been redesigned and treated in extent, shile the entire plant shich is assentially now had to be ordered from home, installed and put in operation, since the inception of the present Veterinary Service of Tanganyika.
- 32. Commenting on the alleged lask of co-operation between the various services of Eastern Africa, I would venture to point out that, on the centrary, a monthly exchange of mulatime and disease reports takes place as a routine. It is scarcely fair to orthook the close se-operation which exists between the Kenya and the Mpapua Besearch Institutes.

Well-attended conferences have been held on more than one occasion in Enirchi, and particularly would I pefer to the recent Pan-African Veterinary Conference in which the Union of South Africa, Madagasser, Massleed, Pertuguese East Africa, The Sudas, Tamparita Torritory, and Kenya all participated. In fact I am unaware that squally well attended representative conferences have as yet been held by other Technical Departments. The officers of Epaper on several occasions have visited and sojourned at Enirchi, while to-day Mpaper is producing anti-rinderpost serum on

CHICE LONDON

on a large scale for Lenga, Uganda and Zensiber. For instance, 90,000 doese are being supplied to Kenya sions during the last six months of the current year. The attached extract from a memorandum to the Commission on the subject of a Central Scientific Institution is forwarded.

Sgd: F. J. MCGALL

CHIEF VETERIBARY OFFICER.

Walangali, 27.10.25

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Extract from a report by the Chief Veterinary Officer to the Bast African Countesion, dated 27th Deptember, 1924.

Laberatorias.

The desirability of Astablishing a Control

Account Institute.

The existing forum Institute at Spane was build for and efficiently serves a specific purpose, vis, departmental diagnosis and the production or antirinderpost serum; local conditions permit of this production at what is believed to be a lower cost than can be accomplished elsewhere, the setudi estimate of the Pathologist being from \$6. to 1/- per desagn-unit of 50 c.s. It is therefore evident that the establishment of a sentral research institute could not usurp this fugation.

on in a modest manner at Manne might be more officiently dealt with by a more ambitious institute, since the overshadowing influence of the important economic discuses dealt with much as Minterport, must Coast Pever, and Trypanosomiasis, may seconds character our vision concerning Shatrums but possible equally vital issues. In this respect therefore the opportunities afforded for the exchange of views together with the intensive academic atmosphere of a purely scientific laboratory, as appeared to the economic financial outlook of our institute would make for the more efficient study of pure beispes. Exercises it is well to been in mind the importance of invention

investigating problems on the spot, in the surroundings in which the specific disease under observation actually occurs.

The laboratory at Spapus bulks largely in the life of the Teterinary Department of Tangunytics and its importance as a training ground for newly appointed officers cannot be overestimated, while the facilities it affords for teaching the Sative Staff of Veterinary Guards are valuable.

For these reasons it is confidently believed that the acceptance of a wider scheme and imaggration of a central laboratory while conferring a both on East Africa in general will in no way tend to spect our present departmental dementic policy or deprive us of what we believe to be one of our most valued and useful assets.

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