Addressing animal disease threats and priorities in the GLTFCA - A JMB Veterinary Sub-Committee Update on Progress

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GLTFCA JMB Veterinary Subcommittee

This committee's mandate includes:

- •The identification of potential animal health issues and challenges related to expansion of the geographic range of wildlife and their pathogens.
- •Identification of potential conservation threats related to pathogens cycling in neighbouring livestock (in all 3 countries)
- •Identification of the related human health, domestic animal health and zoonotic issues
- •Inclusion of these veterinary issues in the development of a Joint Management Plan for the GLTP
- •To advise the Joint Management Board (JMB) on the management of animal health challenges, and prioritise appropriate activity areas to address these issues



TFCA SUMMARY DOCUMENT FROM THE VETERINARY SUB-COMMITTEE PRIORITISATION OF ANIMAL HEALTH CHALLENGES IN THE GLTP

A) INFRASTUCTURAL AND TECHNICAL NEEDS

- Diagnostic capability specifically related to basic disease monitoring
- Centralised data base with GIS capability and data management system
- Communication network
- · Technical equipment
- Training and capacity building
- Understanding human/livestock/wildlife interaction around the GLTP
- · Development of a Wildlife Veterinary Unit in Mozambique
- Actual implementation of wildlife related disease-monitoring programs
- · Planned buffalo translocations Limpopo National Park
- Sable introduction from Zimbabwe to LNP
- · Planned fence on the northern Limpopo River Bank Zimbabwe

B) DISEASE SURVEILLANCE AND MONITORING

Bovine Tuberculosis (BTB) and Brucellosis

- Monitor of BTB and brucella status of cattle in the Sengwe corridor.
- Monitor of BTB and brucella status of cattle in the Limpopo National Park
- Monitor of BTB and brucella status of cattle on the KNP western boundary
- · Monitor the TB dynamics of the KNP and Limpopo NP buffalo herds
- · Planned survey in Shingwedzi basin (KNP & LNP) 2007
- · Planned survey in Gonarezhou NP and Mateki Hills in Zimbabwe 2008

2) Tsetse flies and Nagana

- Monitoring of tsetse fly activity and spatial/temporal spread in Gonarezhou National Park.
- · Monitor the northern KNP and LNP for tsetse fly incursion.

3)Anthrax and Rabies surveillance and monitoring

- •Report acute death situations in herbivores (wild and domestic)
- ·Collection of blood smears (with field data sheet)
- ·Reporting of animals with abnormal behaviour (wild and domestic)

4)Topotyping of foot & mouth disease viruses in buffalo in KNP and Limpopo National Park.

·Collect blood and probang samples from a significant number of buffalo in Limpopo National Park and northern KNP

5)Foreign animal disease surveillance in wildlife e.g. Rinderpest, Canine distemper, High Path Avian Influenza

6)Surveillance for wildlife-related diseases in livestock e.g. Foot and mouth disease, Theileriosis, African swine fever, Trypanosomiasis and Malignant catarrhal fever

C) PRIMARY ANIMAL HEALTH CARE AT THE INTERFACE

- ·Vaccination of cattle against FMD and anthrax
- ·Vaccination of dogs against rabies and canine distemper
- · Deworming of dogs (including Echinococcus)
- ·Regular dipping and inspection of cattle

Problematic overall!!

INDIGENOUS AFRICAN DISEASES THAT ARE "SILENT" IN THEIR TRADITIONAL HOSTS

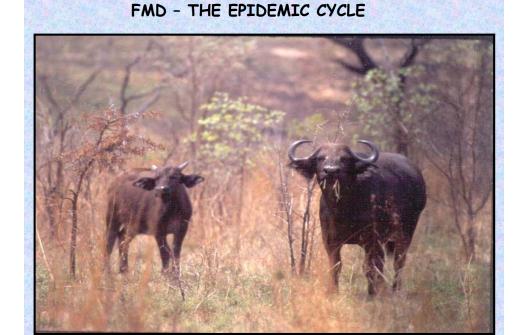
- FOOT & MOUTH DISEASE IN BUFFALO
- AFRICAN SWINE FEVER IN WILD PORCINES
- AFRICAN HORSESICKNESS IN ZEBRAS
- THEILERIOSIS IN BUFFALO
- MALIGNANT CATARRHAL FEVER IN WILDEBEEST

INDIGENOUS MULTI- SPECIES DISEASES THAT ARE INHERENTLY FATAL

- ANTHRAX
- RABIES

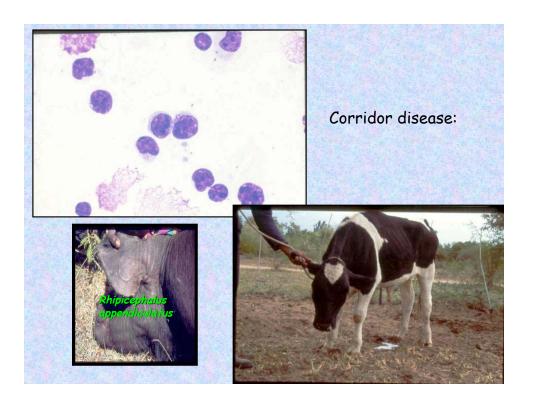
FOREIGN ANIMAL DISEASES

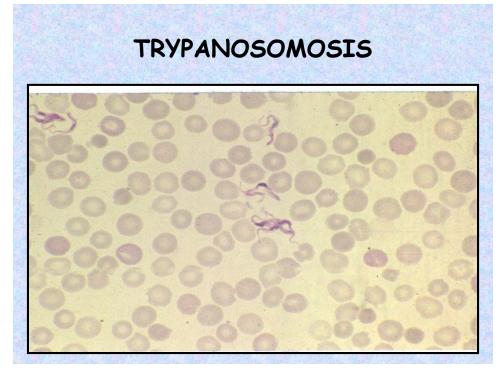
- RINDERPEST
- BOVINE TUBERCULOSIS
- CANINE DISTEMPER
- AVIAN INFLUENZA
- CLASSICAL SWINE FEVER



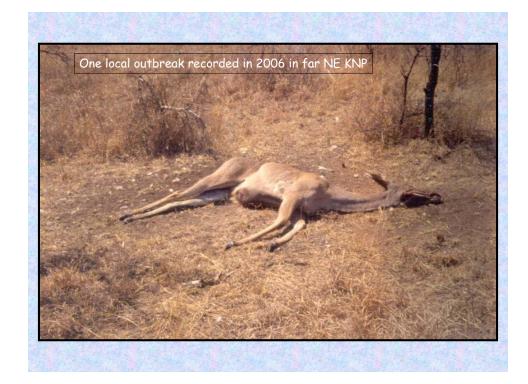










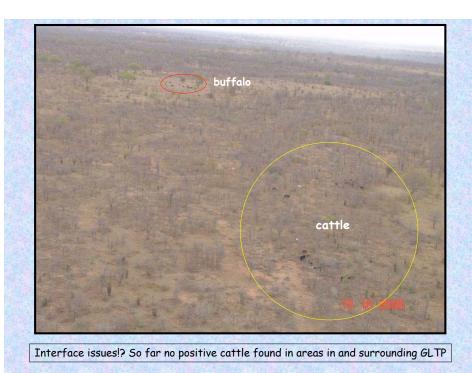


Bovine Tuberculosis



- Non-lethal survey conducted in 2006 in the northern zone, focusing on herds in the Limpopo Valley confirmed a low prevalence of TB in this area
- Two herds were tested in Limpopo NP with no positive animals found
- New species: wildebeest, blesbok and bushbuck





BOVINE TUBERCULOSIS IN LIONS



