

Foot and Mouth Disease: Mtubatuba Outbreak Follow-up Report and Surveillance Update

2 July 2021



agriculture, land reform
& rural development

Department:

Agriculture, Land Reform and Rural Development
REPUBLIC OF SOUTH AFRICA

Report compiled by:

Directorate: Animal Health

This report includes all information as available by close of business 2 July 2021.

1. Introduction and summary

In May 2021, an outbreak of Foot and Mouth Disease (FMD) in cattle was confirmed at a dip tank in the Umkhanyakude District Municipality of the KwaZulu-Natal Province. Since the discovery and reporting of the index case, seventeen other locations have been identified as FMD positive and reported to the OIE. All locations identified lie in the suspended FMD free zone and in the KwaZulu-Natal Province. The affected areas comprise mostly of communal grazing land, with one location being a commercial feedlot. Disease investigations are ongoing to determine the extent of the spread of disease. The following map shows positive locations to date. Note that locations with close proximity may appear as a single location on this map.

Map 1: FMD positive locations in KwaZulu-Natal, South Africa



2. Affected locations

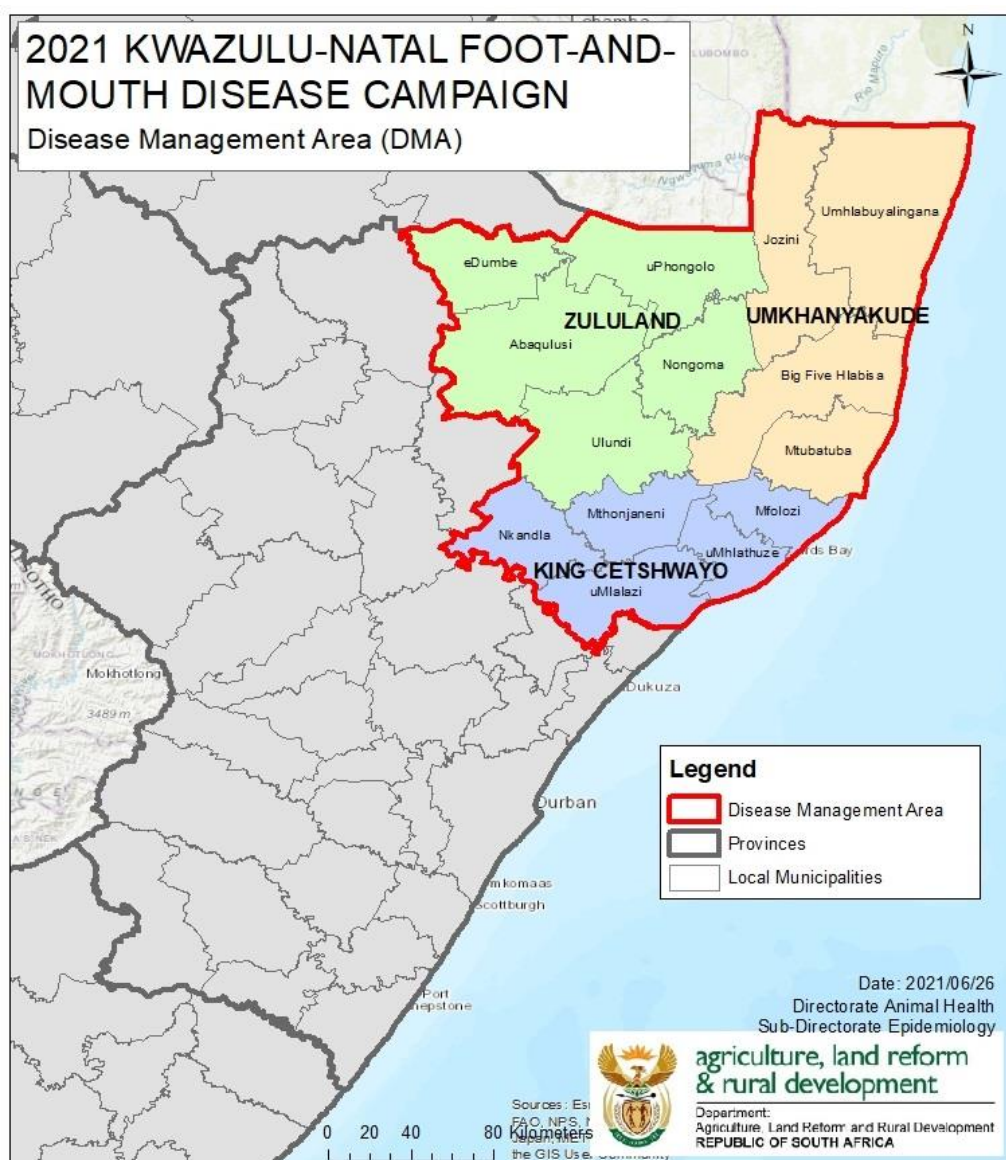
The index case of the outbreak was detected on 27 May 2021, when clinical signs of FMD were observed in cattle during routine dip tank inspections in a communal grazing area in the Mtubatuba Local Municipality in the Umkhanyakude District Municipality of the KwaZulu-Natal Province. The eighteen positive locations identified to date encompass dip tanks in communal grazing land, as well as a commercial feedlot. Varied clinical signs have been reported, with cattle in some serologically positive locations showing no visible signs of infection, while others show classical clinical signs of FMD. Polymerase Chain Reaction (PCR) as well as serological detection of antibodies against the virus at the Onderstepoort Veterinary Research OIE Reference Laboratory - Agricultural Research Council, confirmed all infections to date.

3. Control measures implemented

3.1 Declaration of a Disease Management Area:

The Minister of Agriculture, Land Reform and Rural Development has declared a Disease Management Area (DMA) in the KwaZulu-Natal Province in the Government Gazette No. 44783 on 30 June 2021. The DMA includes the district municipalities of King Cetshwayo, Umkhanyakude and Zululand. No cloven-hoofed animals, their products and genetic material are allowed to move out of, into, within or through the Disease Management Area, herein after referred to as KZN DMA, except on authority of a permit issued by the Veterinary Services of the area.

Map 2: The outline of the declared DMA in KwaZulu-Natal



3.2 Movement control:

A movement control protocol has been finalised and is being implemented and the aim to monitor and control movement of livestock and livestock products out of, into, within and through the DMA. The full movement protocol is available upon request and in summary, provides the following information:

- Movements of live cloven-hoofed animals out of the DMA is not allowed, if allowed, is subject to stringent risk mitigation measures.
- Movement of live cloven-hoofed animals through the DMA is not permitted.
- Movements of live cloven-hoofed animals into or within the DMA is only permitted for slaughter purposes under specific conditions, and on the basis of a risk assessment of the biosecurity at origin and destination.
- Movement of meat from cloven-hoofed animals is possible out of, within and through the DMA, under specific conditions.
- There is no restriction for meat and meat products moving into the DMA, however products must be accompanied by proof of purchase stating origin of such products.
- Movement of hides, skins, trophies, bones, and horns out of or within the DMA is allowed under specific conditions. Movement of such products into or through the DMA have no restriction.
- There is no restriction for milk and milk products, wool and hair, nor for non-FMD-susceptible animals moving into, out of, within or through the DMA.

3.3 No vaccination:

No emergency vaccination has been conducted yet. The use of vaccination will be considered once the extent of the outbreak and the rate of spread have been determined through continued epidemiological investigations.

3.4 General biosecurity:

Dip tank and farm inspections are carried out daily by Veterinary Services in the Province. Strict biosecurity measures are in place when inspecting and sampling around infected locations as well as throughout the areas at risk to avoid the spread of disease through direct or indirect contact.

4. Epidemiological investigation

The virus responsible for the outbreak is a SAT 2 serotype and is closely related to a SAT 2 virus responsible for an outbreak that occurred in the Protection Zone in northern Limpopo Province in 2019. Clinical examinations and serological testing of all cloven-hoofed animals in and around the affected areas are still continuing, with the aim of determining the prevalence of the disease and the extent of the outbreak.

As at 2 July 2021, the infection has been confirmed in eighteen locations. High risk locations have been identified by Veterinary authorities and samples from these locations are undergoing priority testing at the laboratory to ensure the swiftest and most effective way of determining the extent to

which the disease has spread. This adds value to the mobilization of Veterinary Services ground teams and allows for effective utilization of resources. To date, a total of 13 859 sera samples have been collected from approximately 418 locations.

Epidemiological investigation is continuing, with backward and forward tracing in process to determine the possible origin of the virus, as well as pinpoint other locations to which the disease might have spread. Movements of cattle and other cloven-hoofed livestock that occurred in the past 3 months in the affected area as well as others linked to the sources or destinations of translocated animals are being investigated. The source of this outbreak is also being investigated.

As part of the forward and backward tracing operations in the Province, animals that originated from suspect locations were inspected and tested at a feedlot in the Uthukela District Municipality. The feedlot was placed under quarantine while further investigations were conducted. Epidemiological investigations including further laboratory tests have confirmed infection in the feedlot and it thus remains under quarantine with the necessary control measures.

Passive surveillance is being strengthened in the rest of the country via communication with state and private veterinarians as well as physical visits to owners of cloven-hoofed livestock and chairpersons of dip tank associations. All mentioned parties are urged to be vigilant for any clinical signs that might represent those of Foot and Mouth Disease and are asked to report such suspicions immediately for further epidemiological investigations.

Ground team members in the KwaZulu-Natal Province are governing communication efforts such as visits to livestock associations and traditional authorities in order to provide information verbally and in the form of pamphlets and posters, raise awareness and address concerns of farmers and livestock owners in and surrounding the affected areas.

5. Trade implications

Following the loss of the OIE recognised FMD free status in January 2019, agreements were negotiated with trade partners on the export of safe commodities, including heat treated meat and dairy products, deboned and matured beef, scoured wool, salted hides and skins and livestock embryos. Most trade partners have thus far still retained the negotiated agreements for these commodities, based on the guarantees provided for processing to ensure inactivation of the virus. South Africa is also confident to certify the safety of pigs, pig semen, raw pork and pork products from known FMD free pig compartments. Communication efforts are conducted to keep trade partners up to date with the disease situation in the country as well as the implementation of control measures to contain the disease.

In May 2021, Botswana announced the banning of the importation of live cloven-hoofed animals and their products as well as veld grass, bedding and manure-contaminated vehicles from South Africa. Live cloven-hoofed animals and their products originating from South Africa are also not allowed to travel through Botswana to other countries. These regulations from the government of Botswana remain in place until further notice.

In June 2021, it was announced that live cloven-hoofed animals (importation and repatriation of stolen animals) as well as raw products from cloven-hoofed animals is banned from entering Eswatini. Products of cloven-hoofed animal origin that have been adequately processed via canning, cooking and pasteurization from all Provinces except Limpopo and KwaZulu-Natal will be allowed to enter Eswatini. Regulations regarding this importation ban will be adjusted with the changing FMD situation in KwaZulu-Natal Province.

Director Animal Health

Date: