



May 2024

Monthly report on livestock disease trends as informally reported by veterinarians belonging to the Ruminant Veterinary Association of South Africa (RuVASA), a group of the South African Veterinary Association

Previous disease reports can be accessed on the RuVASA website (www.ruvasa.co.za)

These reports include data from individual practices

Click on Disease Reports

Click on the required dates of Disease Reports

The following practices and laboratories (136) submitted reports during May 2024:

Mpumalanga (10)

Bethal – Dr. Hardus Pieters
Grootvlei – Dr. Neels van Wyk
Lydenburg – Dr. Marietjie Malan
Lydenburg – Drs. Trümpelmann and Steyn
Middelburg – Dr. Neil Fourie
Nelspruit – Dr. André Beytel
Piet Retief – Drs. Niebuhr and Weber
Rayton – Dr. Frans Malan
Standerton – Dr. Schalk van der Merwe
Volksrust – Dr. Johan Blaauw

Gauteng (10)

Bapsfontein – Drs. Engelbrecht and Olivier
Bronkhorstspuit – Drs. De Bruin, De Bruin and Labuschagne
Hammanskraal – Dr. Hentie Engelbrecht
Irene (ARC) – Drs. Van Wyk and Steyn
Krugersdorp (Veeartsnetwerk) – Dr. Danie Odendaal
Muldersdrift – Drs. Speedy and Enslin
Nigel – Dr. Henry Labuschagne
Onderstepoort Veterinary Academic Hospital – Proff. Holm and Leask and Drs. Fitte, Grobler, Hentzen, Koepfel, Magadu, Magagula, Marufu, Mokoele, O'Dell, Tagwirreyi, Tshuma and Van den Hurk
Vanderbijlpark – Dr. Kobus Kok

Limpopo (7)

Modimolle – Drs. Van Niekerk and Te Brugge
Modimolle- Drs. Grobler and Toet
Mokopane (Potgietersburg) – Dr. Henk Visser
Polokwane (Pietersburg) – Drs. Watson, Viljoen, Jansen van Vuuren, Van Rooyen, Snyman and Cremona
Thabazimbi – Dr. Minette Nel
Tzaneen – ZZ2 Farm practice – Dr. Danie Odendaal
Vaalwater – Dr. Hampie van Staden

North West (11)

Beestekraal - Dr. Alwyn Venter
Brits – Drs. Scheepers and Malan
Brits – Drs. Boshoff and Coertze
Christiana – Dr. Pieter Nel
Leeudoringstad – Dr. Ian Jonker
Potchefstroom – Dr. Martin Jordaan
Rustenburg – Drs. Grobler, Sparks, Stoffberg and Otterman
Schweizer-Reneke - Drs. Venter and Malte
Stella - Dr. Magdaleen Vosser
Vryburg – Dr. Marnus de Jager
Zeerust – Dr. Lizahn Venter

Free State (25)

Bloemfontein – Dr. Stephan Wessels
Bothaville – Dr. Gerrie Kemp
Bothaville – Dr. Tom Meyer
Bultfontein – Dr. Santjie Pieterse
Clocolan – Drs. Wasserman, Kleynhans and Boshoff
Dewetsdorp – Dr. Marike Badenhorst
Fauresmith – Dr. Nienke van Hasselt
Ficksburg – Dr. Woody Kotzé
Frankfort – Drs. Lessing, Cilliers and Janse van Rensburg
Harrismith – Drs. Cook, Korb and Olevano
Harrismith – Dr. Wim Slabber
Hoopstad – Dr. Cassie van der Walt
Hoopstad – Dr. Kobus Pretorius
Koppies – Dr. Kobus Bester
Kroonstad – Drs. Daffue, Eksteen, Van Zyl and Van der Walt
Memel – Drs. Nixon and Nixon
Oranjeville - Dr. D'Wall Hauptfleisch
Parys – Drs. Wessels and Wessels
Reitz – Dr. Murray Smith
Senekal – Dr. Jan Blignaut
Smithfield – Dr. Nienke van Hasselt
Viljoenskroon – Dr. Johan Kahts
Villiers – Drs. Hattingh, Maree and Lourens
Vrede – Dr. Daleen Roos
Vrede – Drs. Reynolds and Nixon

Warden – Dr. Paul Reynolds
Wesselsbron – Dr. Johan Jacobs

KwaZulu-Natal (11)

Bergville - Dr. Jubie Müller
Camperdown – Dr. Anthony van Tonder
Dundee – Drs. Marais and Fynn
Estcourt – Drs. Turner, Tedder, Taylor, Tratschler, Van Rooyen and Alwar
Ixopo – Dr. Savannah Stutchbury (Howick group)
Kokstad (East Griqualand) – Kokstad, Matatiele and Elliot – Drs. Clowes, Lees, Westhoff, Kilian and Holyoake
Mooi River – Drs. Fowler and Graver
Mtubatuba – Dr. Trevor Viljoen
Pongola – Dr. Heinz Kohrs
Underberg – Drs. King, Delaney and Huysamer
Underberg – Dr. Tod Collins

Eastern Cape (16)

Adelaide – Dr. Steve Cockroft
Alexandria – Dr. Charlene Boy
Alexandria – Dr. Johan Olivier
Aliwal North – Dr. Freddie Strauss
Barkly East – Drs. Cronje and Janse van Rensburg
Bathurst – Dr. Jane Pistorius
Elliot - Drs. Walter, Clowes, Lees, Malan, Koekemoer, Kilian and Holyoake
Graaff- Reinet - Dr. Roland Larson
Graaff-Reinet – Drs. Hobson, Strydom and Hennesy
Grahamstown – Drs. Baxter, Hepplestone and Van Vuuren
Port Alfred – Dr. Leon de Bruyn
Queenstown – Drs. Du Preez, Klopper, De Klerk, Wentzel and Webster
Queenstown – Dr. Clara Blaeser
Steynsburg – Dr. Johan van Rooyen
Stutterheim – Dr. Dave Waterman
Uitenhage – Drs. Mulder and Krüger

Western Cape (17)

Caledon – Drs. Louw and Viljoen
Darling – Drs. Van der Merwe, Adam, Jenkins and Lord
George – Drs. Strydom, Truter and Pettifer
Heidelberg – Dr. Albert van Zyl
Malmesbury – Dr. Otto Kriek
Malmesbury – Dr. Ida Glover
Moorreesburg – Dr. Suenette Kotzé
Oudtshoorn – Dr. Glen Carlisle
Oudtshoorn -Dr. Adriaan Olivier
Paarl – Dr. Carla van der Merwe
Plettenberg Bay – Dr. André Reitz
Riversdale – Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – Dr. Alfred Kidd
Swellendam – Drs. Malan and Fourie
Vredenburg – Dr. Izak Rust
Wellington – Drs. Van Zyl and Louw
Worcester – Drs. De Wet and Rabe

Northern Cape (14)

Calvinia – Dr. Bertus Nel
Colesberg – Drs. Rous and Rous
De Aar – Dr. Donald Anderson
Kathu – Dr. Jan Vorster

Kimberley – State Vet Group:

Control Animal Health Technician – Mr. Deon Kriel (gathering information)
Kimberley SV – Dr McDonald Gayakaya
Kimberley SV – Dr. Nelson Matekwe
Kimberley CCS Vets – Drs. Chris Volschenk, Michelle Roets and Charmaine Hattingh
Kuruman SV – Dr. Lea Shuda
Kuruman CCS Vets – Drs. Daniel Saayman and Emma Cilliers
Springbok SV – Dr. Simone Jacobs
Upington CCS Vet – Dr. Gretchen Schmidt

Postmasburg – Dr. Boeta van der Merwe
Upington – Drs. Vorster, Visser and Oosthuizen

Feedlots (2)

Dr. Eben Du Preez
Drs. Morris, Morris and Barnard

Biosecurity consultant (1)

Bloemfontein - Dr. Theo Kotzé

Laboratory reports and others (12)

Dr. Adriaan Olivier – South African Ostrich Business Chamber
Dr. Marijke Henton - Vetdiagnostix, Johannesburg
Dr. Rick Last -Vetdiagnostix, South Africa
Dr. Annelize Jonker, Veterinary Tropical Disease Bacterial Laboratory, University of Pretoria
Dr. Liza du Plessis – Pathcare, Pretoria
Dr. Annelie Cloete – Western Cape, Provincial Veterinary Laboratory, Elsenburg, Stellenbosch
Dr. Mark Chimes – Dairy Standard
Dr. Bennie Grobler - University of Stellenbosch, Dept. of Animal Science
Dr. Hanri Bester-Cloete – Bloemfontein Provincial Veterinary Laboratory
Dr. Clara Blaeser, Queenstown Provincial Laboratory
Prof. Emily Mitchell – Wildlife, University of Pretoria
Me. Amanda McKenzie – Vryburg Veterinary Laboratory

Key message:

Biosecurity on farms is a buzz word that is preached at many farmer's days, on TV, in the agricultural media and during conversations at many meetings. If I look at the disease reports I receive monthly from all over South Africa, we are failing dismally in controlling important diseases as a country! Farmers that are serious about their disease status are in many cases surrounded by herds of cattle and flocks of sheep and goats on farms that are positive for brucellosis, trichomonosis, sheep scab, and polluted water sources (cryptosporidiosis and *E. coli*), just to mention a few diseases. The foot and mouth outbreaks had their origin in the illegal transportation of positive animals.

Surely we deserve better, but then every single person has to be serious in keeping the animal production chain healthy and in tact!

Red meat

[RPO-Code-of-Best-Practice-complete.pdf \(nahf.co.za\)](#)

[RPO-Kode-van-Beste-Praktyk-volledig.pdf \(nahf.co.za\)](#)

For the latest update on Foot and Mouth Disease visit:

[2024-05-31-FMD-Outbreak-Follow-up-Report.pdf \(nahf.co.za\)](#)

Table 1: Summary of open and closed outbreaks per province in the previous FMD free zone without vaccination since 2021

Province	Number of open outbreaks	Number of closed outbreaks	Total number of outbreaks	Start date of last reported outbreak
Free State	21	20	41	07 Feb 2024
Gauteng	0	7	7	30 Aug 2022
KwaZulu Natal	130	17	147	18 Apr 2024
Limpopo	0	8	8	25 Apr 2022
Mpumalanga	0	21	21	2 Aug 2022
North West	0	18	18	22 Nov 2022
Eastern Cape	4	0	4	30 April 2024
Totals	175	71	246	

Compartmentalization

Compartmentalization is a concept developed by the **World Organization for Animal Health (OIE)** to enable international trade to continue in the event of a notifiable disease outbreak. Compartmentalization is separation by common

management and biosecurity measurements while regionalization or zones are based on geography.

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CHAPTER 4.4.

ZONING AND COMPARTMENTALISATION

Article 4.4.1.

Introduction

The purpose of this chapter is to provide recommendations on the principles of zoning and compartmentalisation to Member Countries wishing to establish and maintain different subpopulations with specific health status within their territory. These principles should be applied in accordance with the relevant chapters of the Terrestrial Code. This chapter also outlines a process by which trading partners may recognise such subpopulations.

Establishing and maintaining a disease-free status throughout the country should be the final goal for Member Countries. However, given the difficulty of achieving this goal, there may be benefits to a Member Country in establishing and maintaining a subpopulation with a specific health status within its territory for the purposes of international trade or disease prevention or control. Subpopulations may be separated by natural or artificial geographical barriers or by the application of appropriate biosecurity management.

While zoning applies to an animal subpopulation defined primarily on a geographical basis, compartmentalisation applies to an animal subpopulation defined primarily by management and husbandry practices related to biosecurity. In practice, spatial considerations and appropriate management, including biosecurity plans, play important roles in the application of both concepts.

Zoning may encourage the more efficient use of resources within certain parts of a country. Compartmentalisation may allow the functional separation of a subpopulation from other domestic or wild animals through **biosecurity**, which would not be achieved through geographical separation. In a country where a disease is endemic, establishment of free zones may assist in the progressive control and eradication of the disease. To facilitate disease control and the continuation of trade following a disease outbreak in a previously free country or zone, zoning may allow a Member Country to **limit the extension of the disease to a defined restricted area**, while preserving the status of the remaining territory. For the same reasons, the use of compartmentalisation may allow a Member Country to take advantage of epidemiological links among subpopulations or common practices relating to biosecurity, despite diverse geographical locations.

A Member Country may thus have more than one zone or compartment within its territory.

Article 4.4.2.

General considerations

The Veterinary Services of a Member Country that is establishing a zone or compartment within its territory should clearly define the subpopulation in accordance with the **recommendations in the relevant chapters of the Terrestrial Code, including those on surveillance, on animal identification and animal traceability and on official control programmes.**

The procedures used to establish and maintain the specific animal health status of a zone or compartment depend on the epidemiology of the disease, including the presence and role of vectors

and susceptible wildlife and environmental factors, on the animal production systems as well as on the application of biosecurity and sanitary measures, including movement control.

Biosecurity and surveillance are essential components of zoning and compartmentalisation, and should be developed through **active cooperation between industry and Veterinary Services.**

The Veterinary Services, including laboratories, should be established and should operate in accordance with Chapters 3.2. and 3.3., to provide confidence in the integrity of the zone or compartment. **The final authority over the zone or compartment, for the purposes of domestic and international trade, lies with the Veterinary Authority.** The Veterinary Authority should conduct an assessment of the resources needed and available to establish and maintain a zone or compartment. These include the human and financial resources and the technical capability of the Veterinary

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Services and of the relevant industry and production system (especially in the case of a compartment), including for surveillance, diagnosis and, when appropriate, vaccination, treatment and protection against vectors. In the context of **maintaining the animal health status** of a population or subpopulation of a country, zone or compartment, **importations** into the country as well as **movements** of animals and their **products**, and **fomites**, into the zones or compartments should be the subject of appropriate **sanitary measures and biosecurity.**

The Veterinary Services should provide **movement certification**, when necessary, and carry out documented periodic

inspections of facilities, biosecurity, records and surveillance procedures. **Veterinary Services should conduct or audit surveillance, reporting, laboratory diagnostic examinations and, when relevant, vaccination.**

The production sector's responsibilities include, in consultation with the Veterinary Services if appropriate, the application of biosecurity, documenting and recording movements of commodities and personnel, managing quality assurance schemes, documenting the implementation of corrective actions, conducting surveillance, rapid reporting and maintenance of records in a readily accessible form.

Article 4.4.3.

Principles for defining and establishing a zone or compartment

The following principles apply when Member Countries define a zone or a compartment.

- 1) The extent of a zone** and its geographical limits should be established by the Veterinary Authority on the basis of natural, artificial or legal boundaries, and made public through official channels.
- 2) The factors defining a compartment** should be established by the Veterinary Authority on the basis of relevant criteria such as management and husbandry practices related to biosecurity, and communicated to the relevant operators through official channels.
- 3) Animals and herds or flocks belonging to subpopulations of zones or compartments should be recognisable as such through a clear epidemiological separation from other animals and all factors presenting a risk. The measures taken to ensure the identification of the subpopulation and to establish and maintain its health status through a biosecurity plan should be documented in detail.**

These measures should be appropriate to the particular circumstances, and depend on the epidemiology of the disease, environmental factors, the health status of animals in adjacent areas, applicable biosecurity (including movement controls, use of natural, artificial or legal boundaries, spatial separation of animals, control of fomites, and commercial management and husbandry practices), and surveillance.

4) Relevant commodities within the zone or compartment should be identified in such a way that their **movements are traceable**. Depending on the system of production, identification may be done at the herd or flock or individual animal level. Relevant movements of commodities into and out of the zone or compartment should be well documented and controlled. The **existence of an animal identification system is a prerequisite to assess the integrity of the zone or compartment**.

5) For a compartment, the **biosecurity plan** should describe the partnership between the relevant industry and the Veterinary Authority, and their respective responsibilities. It should also describe the **standard operating procedures to provide clear evidence that the surveillance conducted, the animal identification and traceability system, and the management and husbandry practices are adequate** to meet the definition of the compartment. In addition to information on controls of movements of relevant commodities, the plan should include herd or flock **production records, feed, water and bedding sources, surveillance results, birth and death records, visitor logbook, morbidity and mortality history and investigations, medications, vaccinations, documentation of training of relevant personnel and any other criteria necessary for evaluation of risk management**. The information required may vary in accordance with the species and diseases under consideration. The biosecurity plan should also describe how the measures will be **audited** to ensure that the risks are being managed and regularly reassessed, and the measures adjusted accordingly.

Articles 4.4.4. to 4.4.7. describe different types of zones that can be established by Member Countries. However, **other types of zones may be established for the purposes of disease control or trade**.

Article 4.4.4.

Free zone

A free zone is one in which the absence of a specific infection or infestation in an animal population has been demonstrated in accordance with the relevant requirements of the Terrestrial Code.

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In conjunction with Articles 4.4.2. and 4.4.3., and depending on the prevailing epidemiological situation, the attainment or maintenance of free status may require past or ongoing specific surveillance and vector surveillance, as well as appropriate biosecurity and sanitary measures, within the zone and at its borders. The surveillance should be conducted in accordance with Chapter 1.4. and the relevant chapters of the Terrestrial Code.

The free status can apply to one or more susceptible animal species populations, domestic or wild.

So long as an ongoing surveillance demonstrates there is no occurrence of the specific infection or infestation, and principles determined for its definition and establishment are respected, the zone maintains its free status.

Article 4.4.5.

Infected zone

An infected zone is one either in which an infection or infestation has been confirmed, or that is defined as such in the relevant chapters of the Terrestrial Code.

An infected zone in which an infection or infestation has been confirmed may be:

- 1) a zone of a country where the infection or infestation is present and has not yet been eradicated, while other zones of the country may be free; or
- 2) a zone of a previously free country or zone, in which the infection or infestation has been introduced or reintroduced, while the rest of the country or zone remains unaffected.

To gain free status in an infected zone, or regain free status following an outbreak in a previously free zone, Member Countries should follow the recommendations in the relevant chapters of the Terrestrial Code.

Article 4.4.6.

Protection zone

A protection zone may be established to preserve the animal health status of an animal population in a free country or a free zone by preventing the introduction of a pathogenic agent of a specific infection or infestation from neighbouring countries or zones of different animal health status.

A protection zone may be established as a temporary measure in response to an increased risk of disease. In such case, it may be maintained up to 24 months.

The protection zone can be established within or outside a free zone or within a free country. Based on the results of a risk assessment, more than one protection zone may be established.

Biosecurity and sanitary measures should be implemented in the protection zone on the basis of the animal management systems, the epidemiology of the disease under consideration and the epidemiological situation prevailing in the neighbouring infected countries or zones.

In addition to the general considerations in Article 4.4.2. and the principles in Article 4.4.3., these measures should include intensified movement control, animal identification and animal traceability to ensure that animals in the protection zone are clearly distinguishable from other populations. Vaccination of susceptible animals in accordance with Chapter 4.18. may also be applied.

Increased surveillance, in accordance with Chapter 1.4. and the relevant disease-specific chapter, should be implemented in the protection zone and the rest of the country or zone, including surveillance of wildlife and vectors as relevant.

If the animal health status of an established protection zone changes owing to the occurrence of a case, the animal health status of the rest of the country or zone is not affected, provided the measures in place prevent the spread of disease and allow the subsequent establishment of a containment zone in accordance with the criteria in Article 4.4.7.

Unless otherwise specified in the relevant disease-specific chapters of the Terrestrial Code, if the animal health status of an established protection zone changes because of vaccination, the animal health status of the rest of the country or zone is not affected.

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Regarding diseases for which the OIE grants official recognition of animal health status:

- a protection zone is considered as effectively established when the conditions described in this article and in the relevant disease-specific chapters have been applied and documented evidence has been submitted to and accepted by the OIE;
- if a Member wishes to make the protection zone permanent, the process for official recognition by the OIE should be followed in accordance with Chapter 1.6. and the relevant disease-specific chapters.

Article 4.4.7.

Containment zone

1) In the event of outbreaks in a country or zone previously free from a disease, a containment zone, which includes all epidemiologically linked outbreaks, may be established to minimise the impact on the rest of the country or zone.

2) A containment zone is an infected zone that should be managed in such a way that commodities for international trade can be shown to have originated from either inside or outside the containment zone.

3) Establishment of a containment zone should be based on a rapid response, prepared in a contingency plan, that includes:

- appropriate control of movement of animals and other commodities upon declaration of suspicion of the specified disease;
- epidemiological investigation (trace-back, trace-forward) after confirmation of infection or infestation, demonstrating that the outbreaks are epidemiologically related and all are contained within the defined boundaries of the containment zone;
- a stamping-out policy or another effective emergency control strategy aimed at eradicating the disease;
- animal identification of the susceptible population within the containment zone, enabling its recognition as belonging to the containment zone;
- increased passive and targeted surveillance in accordance with Chapter 1.4. in the rest of the country or zone, demonstrating no occurrence of infection or infestation;
- biosecurity and sanitary measures, including ongoing surveillance and control of the movement of animals, other commodities and fomites within and from the containment zone, consistent with the listed disease-specific chapter, when there is one, to prevent spread of the infection or infestation from the containment zone to the rest of the country or zone.

4) A containment zone is considered to be effectively established when the following is demonstrated, unless

otherwise specified in the disease-specific chapter:

EITHER

a) there have been no new cases in the containment zone within a minimum of two incubation periods from the disposal of the last detected case;

OR

b) it comprises an inner zone where cases may continue to occur and an outer zone where no outbreaks have occurred for at least two incubation periods after the control measures above have been put in place and which separates the inner zone from the rest of the country or zone.

5) The free status of the areas outside the containment zone is suspended pending the effective establishment of the containment zone. Once the containment zone has been established, the areas outside the containment zone regain free status.

6) The free status of the containment zone should be regained in accordance with the relevant listed disease-specific chapters or, if there are none, with Article 1.4.6.

7) In the event of an occurrence of a case of the infection or infestation for which the containment zone was established, either in the containment zone described in point 4(a) or in the outer zone where no outbreaks had occurred as described in point 4(b), the rest of the country or zone loses its free status.

Article 4.4.8.

Bilateral recognition of country or zone status by trading countries

While the OIE has procedures for official recognition of status for a number of infections (refer to Chapter 1.6.), for other infections or infestations, countries may recognise each other's status through a bilateral process. Trading partners should exchange information allowing the recognition of different subpopulations within their respective territories. This

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recognition process is best implemented through establishing parameters and gaining agreement on the necessary measures prior to outbreaks of disease.

The Veterinary Services of an exporting country should be able to explain to the Veterinary Services of an importing country the basis for claiming a specific animal health status for a given zone or compartment under consideration.

The exporting country should be able to demonstrate, through detailed documentation provided to the importing country, that it has implemented the recommendations in the Terrestrial Code for establishing and maintaining such a zone or compartment.

In accordance with Chapter 5.3., an importing country should recognise the existence of this zone or compartment when the appropriate measures recommended in the Terrestrial Code are applied and the Veterinary Authority of the exporting country is able to demonstrate that this is the case.

NB: FIRST ADOPTED IN 1998; MOST RECENT UPDATE ADOPTED IN 2021.

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- Movement control
- Identification of clinical disease signs
- Isolation of diseased animals
- Demand a vendor's declaration when animals are bought
- Quarantine animals that are bought for 28 days
- Strictly follow your herd management programme that is regularly updated in consultation with your veterinarian

- The ultimate goal is to form a disease free (Brucellosis, Foot and mouth disease, Trichomonas) compartment of your farm
- See what the pig farmers have achieved regarding African Swine Fever

<https://www.woah.org/app/uploads/2021/10/asf-compartmentalisationguidelines-en.pdf>

FOOT AND MOUTH DISEASE

Foot and Mouth Disease Emergency Plan

Health management actions to be taken if a case of foot and mouth disease is suspected on your farm. This Emergency Plan must be discussed with your herd veterinarian and adapted for the situation on your farm.

Phases	Description	Time-line	Outcome
Phase 1	Trained herdsman observes suspicious signs of FMD during structured daily observation	Day 1	Animal/s must be brought to closest handling facility within that camp.
Phase 2	Trained herdsman examines affected animal/s and send findings and photos to the manager and veterinarian	Day 1	Two possible outcomes based on the results of the observation and subsequent examination: The absence of lesions consistent with FMD – the herd will be monitored daily. A possible case of FMD is confirmed based on the visible lesions and the State veterinarian must immediately be informed to collect samples for laboratory confirmation
Phase 3	If a possible case of FMD is suspected during examination of the herd, the animal must be isolated (quarantined) and other herds on the farm or adjacent farms must be moved at least 1km away from this isolated herd.	Day 2 to 7	Can take 1 day or more to get a veterinarian to take the samples and then also up to 1 week before the results of the tests are available.
Phase 4	If a possible case of FMD is confirmed by laboratory results this herd must now be managed over the long term (plan for up to a maximum of 3 months) in such a way that the disease is not transmitted	< than 30 days	Two possible outcomes based on the laboratory confirmation tests: Tests are negative and the isolated herd is closely monitored for another 3 weeks until the quarantine is lifted. Tests are positive confirming the case of FMD and the herd is kept as an isolated herd on a longer term basis – the follow up action (vaccination to slaughter or direct slaughter after

to other herds on the same or adjacent farms.	recovery from the disease under a red cross permit at the closest approved abattoir)
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Procedures

Phase 1

Observation of signs of disease consistent with Foot and Mouth (FMD) disease by the herdsman.

In case where a herdsman observes signs of disease that is consistent with a suspected case of FMD he must report it immediately to the manager.

The manager must identify the location of the herds and other herds in the vicinity on a map for further fast reaction (e.g. moving other herds away from the possible infected herd) if needed.

The herdsman stays with the animal/s and gets it to the closest handling facility for examination.

Phase 2.

Examination of suspected FMD case after observation of typical signs of disease.

The herdsman then proceeds to examine the feet and the inside of the mouth of the affected animal as per training.

If there are any lesions, the herdsman must take photos and a video to send to the manager.

If the herdsman can't manage the taking of the photos and/or don't have a cell phone with a camera, he must be assisted by a manager.

The manager that arrives must stop at a place well away of the kraal, wear an overall and gumboots and must not physically handle the animal/s but just observe the examination by the herdsman and take photos that must be sent to the consulting veterinarian with the history of the case and the number of animals affected.

If lesions are found during the examination that is consistent with the lesions caused by FMD, the herd must be handled as a positive FMD herd.

The affected animal/s must stay separated from the herd until feedback by the consulting veterinarian.

The herdsman must not handle other healthy animals in this herd after examination of the affected animal/s

Depending on the findings of the examination, the consulting veterinarian will give advice on further actions to be taken.

If the lesions observed are not consistent with FMD, the herd will be managed as normal with increased focus on daily observation and reporting.

If the lesions are consistent with FMD, all precautions described will be taken as this herd is now treated as positive for FMD until the results from laboratory testing are available.

The person that came to assist must then go back to the vehicle and before getting into the vehicle pour disinfectant in a bucket with water at the right dilution (or use a 5-liter container with already made-up disinfectant). Disinfect hands and take the boots and overall off and put normal clothes on. Wash (scrub with a hard brush to remove dung and dirt) and disinfect the boots, put the overall in a bucket and wet it with disinfectant, and then wash and disinfect hands and arms. This person can then go straight home and shower. Overalls can be washed as usual.

The herdsman, that examined the affected cattle can wash and disinfect his boots (not at or in the watering trough) before leaving the camp to go to his house.

The outside of rubber boots can be washed (scrubbed) and disinfected again at home and overall can be put in a bucket with diluted disinfectant for 1 hour before washing it.

Although the carrier state of the FMD disease virus is not transferrable to other people, it is advisable that the herdsman must not come into close contact with any other person that also works with animals on the same or other farms.

Phase 3.

After informing the state veterinarian to come and take samples for laboratory testing for FMD.

The state veterinarian/technician must immediately be contacted (the contact numbers must be ready and available in order for the manager to call immediately).

Ensure that the state veterinarian/technician come to collect the samples within a maximum period of 2 days after reporting the possible case.

Manager to follow up on the results of the laboratory tests on a daily basis – it can be expected that the test results will be available in a maximum period of 5 days.

Herds within 1 km from the possible affected herd on the farm and adjacent farms must be moved away to be at least 1km away from the herd that is now isolated (quarantined).

Only the herdsman that examined the animals initially, will tend to and handle animals in the herd and follow the procedure as described above when leaving the herd every day.

The first function of the herdsman will be to check the fences of the camp in which the cattle are to ensure that no cattle can get out of this camp and that all gates leading to or through this camp are locked.

The herdsman must also assess the grazing and give feedback to the manager regarding the grazing days left in this camp for future planning during Phase 4.

Phase 4.

Manage the herd that test positive on the laboratory confirmation tests.

If a possible case of FMD is confirmed by laboratory results, this herd must now be managed over the long term (plan for up to maximum 3 months) in such a way that the disease is not transmitted to other herds on the same or adjacent farms.

The herd is kept as an isolated herd and the management during the next 3-4 weeks is of utmost importance because that will be the period when most animals in the same herd will be infected and then they will also recover when immunity develop. The highest risk of transmission is when the animals start showing signs of FMD until they recover 2-3 weeks later.

The follow up action will be determined and directed by the State veterinarian (vaccination to slaughter or direct slaughter after recovery from the disease under a Red Cross permit at the closest approved abattoir).

Compiled by Dr. Danie Odendaal

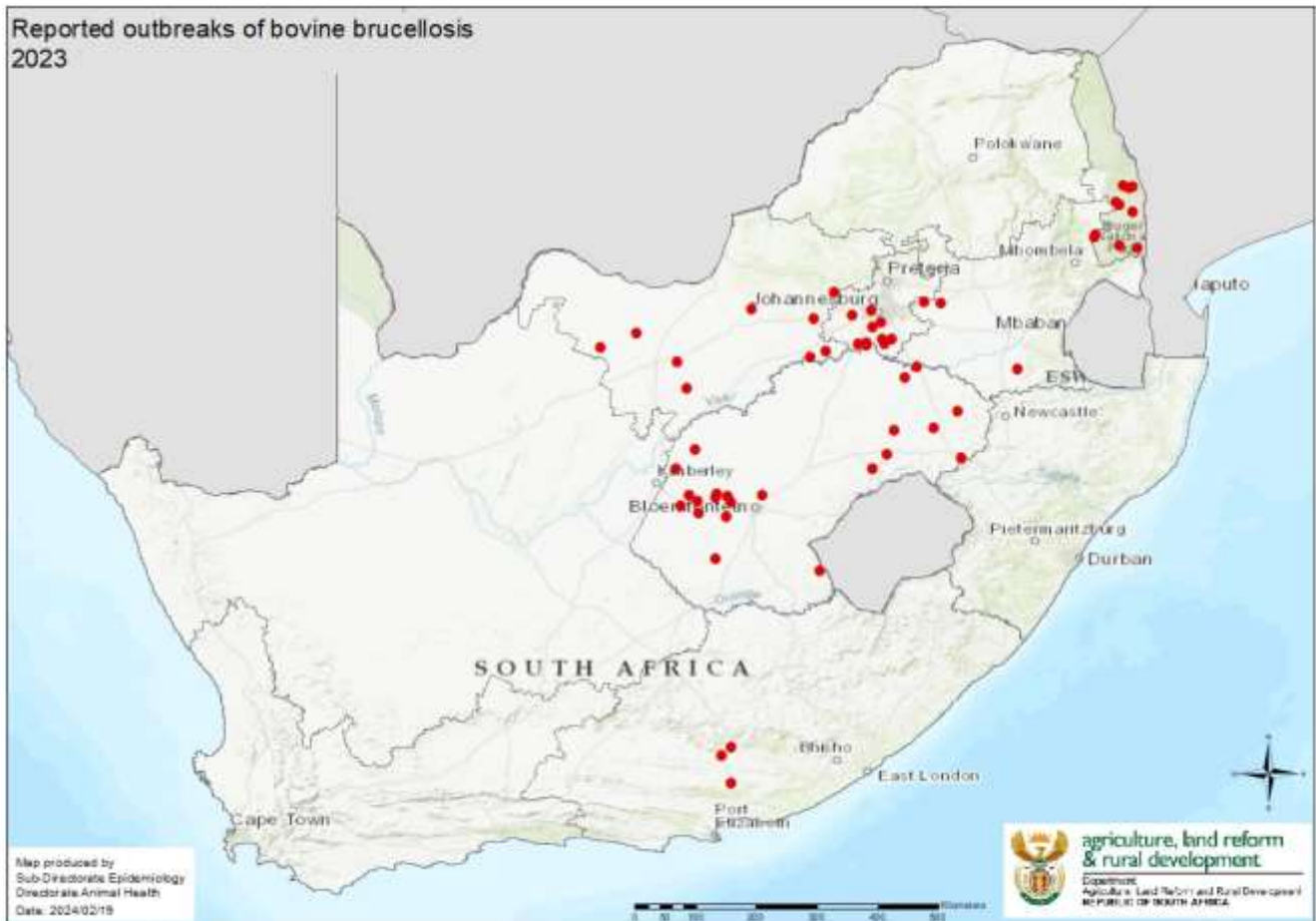
**STOP ILLEGAL MOVEMENT OF
CATTLE!!!!!!!!!!!!!!**

The reason for the foot and mouth outbreaks in South Africa all had to do with the illegal movement of cattle out of the FMD controlled zones in Limpopo.

Owners of motor vehicles are legally bound to have number plates on their vehicles, similarly all cattle have to be branded with a registered mark to prove ownership and in future cattle will be identified with an ICAR approved RFID ear tag.

For detailed reports and maps visit www.ruvasa.co.za and on the toolbar click on Disease reporting

Bovine Brucellosis



Brucellosis is still a huge problem!!!!!! Vaccinate your heifers between the age of 4 to 8 months with Strain 19 and RB 51 in non-pregnant animals. Contact your veterinarian to test your herd and to advise you on vaccination and biosecurity programs.

Strain 19 vaccine manufactured by Onderstepoort Biological Products and Design Biologix

RB 51 is available through MSD

NB Study the packet insert of the vaccines before using the vaccine!

DISEASE REPORT – MAY 2024

Visit www.nahf.co.za and click on Info-centre for details on this HERD disease!

Bovine brucellosis is a herd disease, if one animal tests positive in a herd, the herd is regarded as being positive for bovine brucellosis

“Bovine Brucellosis – Outbreaks are mostly due to our own fault”

Again, new outbreaks of brucellosis are reported! When will we be able to say that we are winning the battle?

Brucellosis destroyed my life, and this could happen to you too!

Dr. Frans Banting, a veterinarian who was infected with brucellosis nearly 40 years ago, tells his story and hopefully this will help all of us realize how devastating this disease is; and that we all have to stand together to eradicate brucellosis. It is each farmers responsibility to stop the spread of this disease.

Dr. Banting’s story:

Disease in cattle

The disease Bovine Brucellosis is also known as Contagious Abortion (CA) and in Afrikaans as “Besmetlike Misgeboorte (BM)”. Brucellosis is a herd disease, if an animal is tested positive in a herd, the whole herd is considered to be infected.

The disease is caused by a bacterium (pathogen) *Brucella abortus bovis*. Infected cows and pregnant heifers usually remain life-long carriers of the bacteria; spreading (excreting) the bacteria over many years. The udder and uterus are the most important organs that are infected. Blood and muscle tissue can also be infectious for a short period. Transmission by this means is very rare in humans.

Production losses occur as animals that test positive for brucellosis are slaughtered.

Additional financial losses are due to:

Cost of an abortion

Cost of perinatal mortality

Cost of temporary infertility

Increased calving intervals

Cost of replacement of dairy cows

Cost of replacement of bulls

Cost due to mortality of sero-positive cows

Milk and meat production loss

Veterinary costs

(Information provided by Dr.Chris van Dijk, dairyvetza@outlook.com)

Clinical signs of infected cattle

Pregnant cows and heifers which are infected for the first time, having no resistance (immunity) to the disease, usually abort at 4 to 7 months of pregnancy. Such a foetus is usually hairless and about 30 to 40 cm in length. Calves that are stillborn may also be found in

a herd. Weak calves can be born. Infected cows may abort for a second time. Retained afterbirths usually occur.

Temporary infertility after an abortion as well as mastitis may occur. Chronic cases may develop a swelling of the knee (hygroma). Cows that are carriers of the *Brucella* bacteria may show no clinical signs of the disease and could still calf annually and spread the disease to the rest of the herd. Bulls may also become infected.

Brucellosis in humans

In humans, brucellosis, is a zoonotic disease i.e., a disease spread from animals to humans. The disease is known as Undulant fever or Malta fever. Undulant fever is caused by *Brucella abortus bovis* and Malta fever by *Brucella melitensis* which occurs in goats.

Transmission

Humans are infected through one of the following ways:

Intake of infected raw milk, ice cream, butter or cheese

Ingestion or handling of infected raw or underdone meat, biltong or meat products. The risk is very small as the *Brucella* bacteria dislike dry, warm conditions. If an animal is slaughtered at an abattoir and hung (pH drop), then the risk is negligible.

Through contact or handling of an infected still born or infected calf, uterine fluid, afterbirth or bull string. The chance of infection when helping a cow during a difficult calving or removing a dead calf, is a reality!

Through pricking yourself with a syringe needle when vaccinating animals with Strain 19 or RB 51. Accidental contact of mucous membranes (eyes and mouth and open wounds) with the vaccine through aerosol transmission or breakages, could be disastrous to the farmer and personnel.

To summarize, if infected material is consumed (unpasteurised milk, meat, meat products, biltong) or if the bacteria/live vaccine comes into contact with mucous membranes (uterine fluid or fluid from infected calf) a person may become infected with brucellosis. Such an infection may enter the body through the eye, mouth, nasal cavity or skin.

Symptoms

The writer of this article was infected with brucellosis about 40 years ago. About two weeks after the infection took place, the first acute attack started.

Fever

A very high fever with profuse sweating occurred especially during the night. It felt as though his whole body was glowing. The worst attacks occurred from 22h00 to 01h00 the next morning. During the period from 07h00 to 14h00, the fever usually subsided.

Muscular pain

The pain was due to infection and was prominent in calf and thigh muscles

Arthritis and painful, swollen joints especially of the knees and hands.

Headaches

This is not a normal headache, but a sudden and serious stabbing headache within a localized area. It does not remain for a long period, but feels as if a long nail is driven into your skull. It disappears usually within a minute or might only last a few seconds.

Fatigue

An indescribable fatigue is often present. It often lasts for long periods -anything from one week to 6 months.

Weakness and muscular weakness. This weakness may be so bad that a person may not be able to work.

Weight loss and chronic diarrhoea

An affected person could lose 3 to 10 kg body weight within weeks.

Depression

Loss of interest in life. Such an attack can last for a few days or up to months.

Insomnia:

Waking during the night (especially between 22h00 and 24h00), one cannot sleep or one has a poor sleeping pattern.

Appetite

Strangely, appetite is not affected

The above listed symptoms are often confused with flu and therefore a correct diagnosis, in many cases, is not made in time. Most acute cases disappear within a month or two, A large percentage of cases develop a chronic (long lasting) infection with roughly the following symptoms:

Muscle and joint pain

Severe fatigue develops with a typical pattern. During the morning and early afternoon, the person feels normal. From about 15h00 to late at night fatigue sets in. This pattern repeats itself and may last for months or years.

Muscular weakness. A normal life is often not possible.

Treatment

If the disease is diagnosed and treated at an early stage, the patient could recover from the disease. Diagnosis is confirmed by means of a positive blood test. Unfortunately, many physicians do not recognize this disease or have insufficient knowledge of the disease and a correct diagnosis is not made.

Brucellosis is treated by giving numerous antibiotics as well as anti-inflammatory drugs, pain killers and multi-vitamins to patients. Antibiotics are given per mouth for 3 to 4 months while intra-venous drugs are given for five successive days with a drip containing nutrients.

In chronic cases the treatment is repeated if typical symptoms of the disease are seen. If infection is due to contact with the RB 51 vaccine, the infection cannot be discovered with the ordinary blood-test and the infection does not react to the ordinary treatment. Contact your medical doctor if you suspect you got infected through contact with the RB 51 vaccine.

Consequences

In serious cases it might be necessary to give the patient sick leave for an extended period. It may even be the best for the patient to retire or change his/her occupation. Brucellosis has its consequence and could change a person's entire life!

Prevention

Brucellosis is a State Controlled Disease. Cattle are tested by taking a blood sample from an animal and sending the samples to an accredited laboratory. If it is suspected that brucellosis is present in a herd, the following procedure is followed:

Test all animals on the farm over 18 months of age. All positive animals have to be branded with a C on the neck, isolated and sent for slaughter as soon as possible (under cover of a Red Cross Permit) to an accredited abattoir. The farm will be quarantined. The herd is tested every two months until two negative tests are obtained. The test is repeated after six months and then annually thereafter.

If adult cows are bought, they should be tested before they are introduced into the herd.

Use the available registered brucellosis vaccines, Strain 19 or RB 51, according to prescribed instructions on the packet insert.

When buying animals, get a vendor's declaration that these animals are from a brucellosis negative accredited herd. Quarantine them and test them again. Heifers should be kept separate until they have calved. Heifers should be tested from 4-5 months pregnancy and then again after calving.

Humans

Never handle suspected infectious material such as foetuses, dead calves, live weak calves or afterbirths without gloves or eye protection.

Do not drink raw milk from an unknown, untested source.

Remember: A brucellosis infected heifer, cow, dead calf or raw milk from a positive herd is a TIME BOMB which can alter your life dramatically or destroy it totally!

Written by: Dr. Frans Banting, Veterinarian and translated by Drs. Faffa Malan, Veterinarian (dokfaffa@nashuaisp.co.za) and Sewellyn Davey (sewellynd@gmail.com)

Although we have made positive steps in controlling Bovine brucellosis, the model disease stated in the Veterinary Strategy, we as a country is far from achieving our goal!

If farmers will just comply by vaccinating their animals against brucellosis, according to law, the incidence of brucellosis will drop dramatically as shedding of bacteria will drop!

Many farmers are still shrugging their shoulders and saying: "Why should I test my animals as it will only cost me money and what if there are positive animals? My farm will be placed under quarantine, so I am not going to test my animals!"

Dr Trudie Prinsloo a veterinarian and legal advisor has compiled legal aspects regarding brucellosis control and it is VERY IMPORTANT that you should avail yourself with the content of this document.

It is available in English and Afrikaans.

<http://nahf.co.za/brucellosis-legal-aspects-2018-12-11/>

VENDOR DECLARATION BOVINE BRUCELLOSIS

I hereby declare that I am the legal owner or authorised representative of the cattle on sale and am competent to make this declaration:

1	The cattle for sale are clearly and permanently identified		Yes	No
2	The cattle for sale/slaughter were born on my farm		Yes	No
3	The farm has a closed herd policy i.e. I do not buy in cattle, rent out grazing or speculate with cattle		Yes	No
4	I practice bio-security on my farm to a level that is **	Poor	Moderate	Good
5	I vaccinate my heifer calves against Bovine Brucellosis once between the ages of 4 – 8 months		Yes	No
6	In addition, I vaccinate my cattle older than 8 months with RB51		Yes	No
7	I have all the cattle on my farm tested for Bovine Brucellosis		Yes (date)	No
8	My herd has been tested negative within the past year		Yes	No
9	I did not buy in cattle since my last negative brucellosis test		Yes	No
10	I/my vet investigates any abortions on my farm		Yes	No
11	To the best of my knowledge, my immediate neighbours and farms in my area are free of Bovine Brucellosis		Yes	No
12	I use a veterinarian to advise me on my cattle's herd health		Yes	No
13	The cattle handling facilities on my farm are	Poor	Average	Good

Note: Vaccination does not mean freedom from Bovine Brucellosis as cattle can still be carriers
Please attach the most recent *Brucella* blood test certificate

Owner or authorised representative:

Signature:

Date:

** * Biosecurity

Poor – speculates with cattle, does not vaccinate, poor fences, cattle come into contact with other cattle

Medium – Vaccinates heifers, does not buy in cattle of unknown health status

Good – closed herd/never buys in cattle, vaccinates heifers and no contact with other cattle, follows a herd health plan as advised by his veterinarian, does not allow transport trucks onto property, washes and disinfects truck after returning from the abattoir or auction grounds.

Compiled by: Dr. Sewellyn Davey, Past Chairman of the Brucellosis Steering committee of the National Animal Health Forum

BOVINE BRUCELLOSIS IS A HERD DISEASE

If one animal is found to be positive for bovine brucellosis, the entire herd is regarded as positive. The State Veterinarian should take responsibility for controlling and eradicating the disease from the farm.

SOP for the control of Bovine Brucellosis

Audit date: _____

Authorised person: _____

		Y/N	Comment
1	Fences and gates in good condition		
2	Gate control - log in		
3	Disinfection of vehicles coming onto the farm		
4	Protective clothing and boots given to people visiting the farm (cattle area) coming from high- risk areas eg. veterinarians, nutritionists, representatives, truck drivers, workers, etc.		
5	Sterilizing equipment coming in contact with cattle		
6	Run off water/ streams from neighboring farms		
7	All animals identified with a brand mark and ear tag		
8	Data base of all animals		
9	Closed herd		
10	When last were animals bought in or moved from another farm?		
11	Only buy in animals from a farm which has a recent negative tested brucellosis herd certificate		
12	Origin(s) of acquired cattle? Bought at an auction?		
13	Keep heifers separate from herd until they have calved and tested negative for brucellosis		
14	Quarantine camp available		
15	Separate calving camps		

16	Were all heifers vaccinated between 4 and 8 months vaccinated with Strain 19 or RB51?		
17	Any cattle vaccinated with Strain 19 over 8 months of age? History over last few years.		
18	Were there any abortions on the farm – samples taken, diagnosis?		
19	All sexually mature cattle in herd tested for bovine brucellosis (provide proof)		
20	Bovine brucellosis is a State controlled disease. Positive cattle are branded with a C on the right side of the neck.		
21	Isolation of infected animals & separate handling facilities		
22	Prohibition of movement of animals off quarantined property except under cover of a Red cross permit for slaughter at an abattoir		
23	Prohibition of use and on-farm disposal of un-boiled, un-pasteurised or un-sterilised milk on quarantined property		
24	Disinfection of places where infection is a possibility.		
25	Neighbors/ recent buyers informed of infected herd status		
26	Fly, crow and predator control		
27	Destruction of afterbirths/abortions in a responsible manner		
28	Beware of livestock, game interface		

Trichomonosis

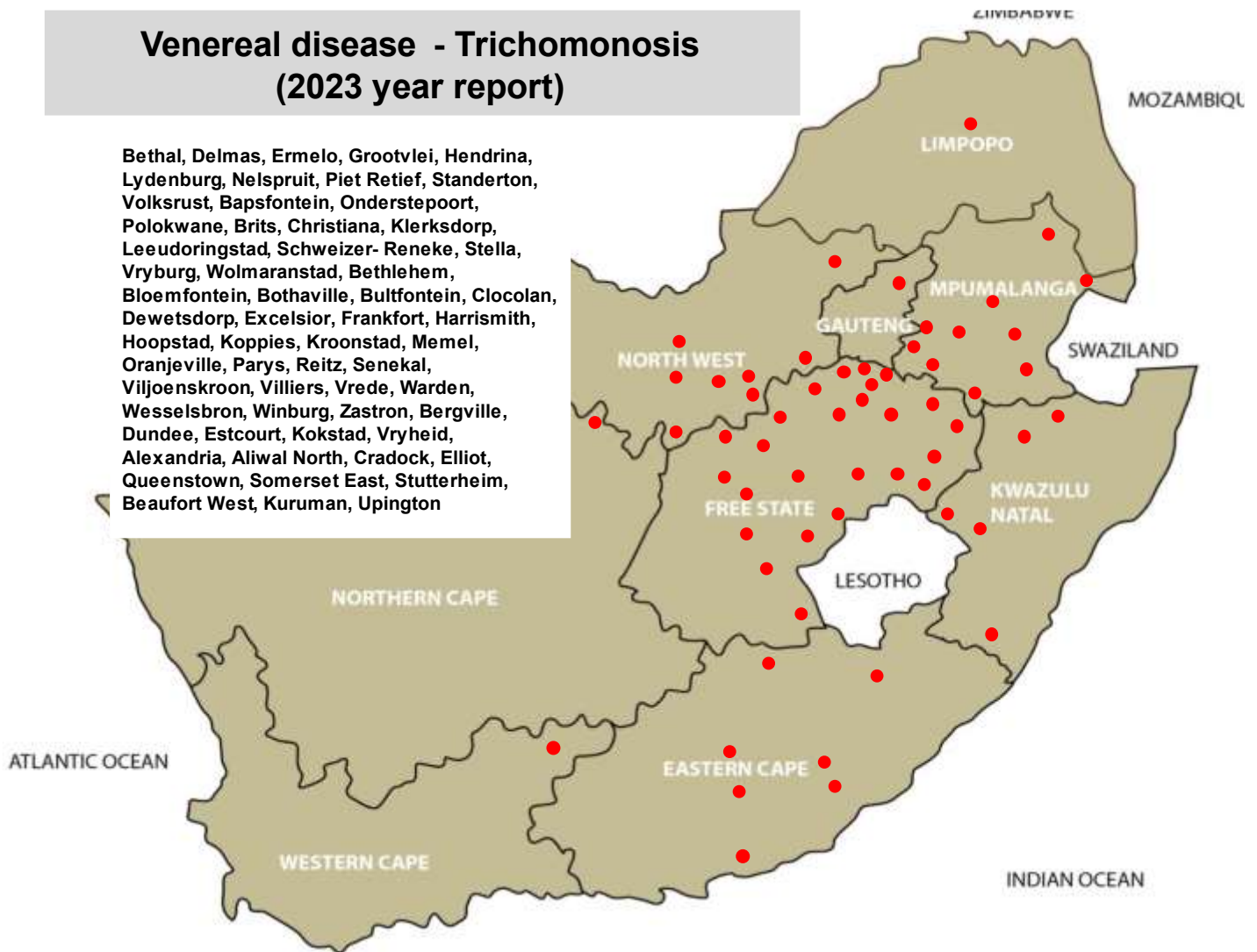
Test your bulls for Trichomonosis and Vibriosis as these two venereal diseases can ruin your future!

HAVE YOU ORDERED YOUR VACCINES? Discuss your management program with your veterinarian!

Visit the link for all the disease maps and detailed reports www.ruvasa.co.za

Venereal disease - Trichomonosis (2023 year report)

Bethal, Delmas, Ermelo, Grootvlei, Hendrina, Lydenburg, Nelspruit, Piet Retief, Standerton, Volksrust, Bapsfontein, Onderstepoort, Polokwane, Brits, Christiana, Klerksdorp, Leeudoringstad, Schweizer- Reneke, Stella, Vryburg, Wolmaranstad, Bethlehem, Bloemfontein, Bothaville, Bultfontein, Clocolan, Dewetsdorp, Excelsior, Frankfort, Harrismith, Hoopstad, Koppies, Kroonstad, Memel, Oranjeville, Parys, Reitz, Senekal, Viljoenskroon, Villiers, Vrede, Warden, Wesselsbron, Winburg, Zastron, Bergville, Dundee, Estcourt, Kokstad, Vryheid, Alexandria, Aliwal North, Cradock, Elliot, Queenstown, Somerset East, Stutterheim, Beaufort West, Kuruman, Upington



To assess your risk, talk to your local veterinarian and update your vaccination and holistic parasite management program. It is important to study what diseases are prevalent in your area and to determine your risk. Take the necessary steps in time, as from experience it is seen that vaccine availability during an outbreak could cause a huge problem. If vaccines are not available, insect and tick control are even more of an importance.

Shows have been opened again after the COVID epidemic and due to the presence of diseases in South Africa, strict biosecurity protocols should be practiced at all times! If animals are taken back to the farm from shows, quarantine these animals for 28 days and observe them twice daily before allowing them into the herd again

Visit the National Animal Health Forum's website regularly where updates on animal health are posted (www.nahf.co.za).

www.nahf.co.za

Click on Info centre

Click on Diseases

When last did you study the Veterinary Strategy??

[The South African Veterinary Strategy – NAHF](#)

Summary of disease report for May 2024

Reports from veterinary practices and laboratories (136); received from Mpumalanga (MP) 10; Gauteng (G) 10; Limpopo (L) 7; Northwest (NW) 11; Free State (FS) 25; KwaZulu-Natal (KZN) 11; Eastern Cape (EC) 16; Western Cape (WC) 17; Northern Cape (NC) 14; Feedlots (FL) 2; Biosecurity (BC) 1 and Laboratories and others (Lab) 12

Study this list – these are the most widely spread diseases as well as other conditions as reported by veterinarians, and determine your risk in collaboration with your veterinarian.

A list of diseases and conditions reported by veterinarians in 5 or more provinces

Study the table above and determine your risk with your veterinarian and take the necessary preventative measures!

Diseases and other conditions	Provinces
Eye infections	9
	Provinces
Wireworm	8
Blue ticks	8
Anaplasmosis	8
Pasteurellosis	8
Ringworm	8
Abscesses	8
	Provinces
African red water	7
Asiatic red water	7
Pulpy kidney	7
Warts	7
Selenium deficiency	7
Joint ill	7
Lameness/foot problems	7
Lung infection	7
Dystocia (difficult calving)	7
Vaginal prolapse	7
	Provinces
Cryptosporidiosis	6
Bont-legged ticks	6

Heartwater	6
Blackquarter	6
Bovine brucellosis	6
Orf	6
Protein deficiency	6
Bloat	6
Diarrhoea	6
Mastitis	6
Poor conception	6
Retained afterbirth	6
Uterine prolapse	6
	Provinces
Roundworms	5
Resistant roundworms	5
Liver fluke worms	5
Coccidiosis	5
Heartwater ticks	5
Brown ear-ticks	5
Red-legged ticks	5
Nuisance flies	5
Blue tongue	5
Trichomonosis	5
Vibriosis	5
E. coli	5
Enzootic abortion	5
Energy deficiency	5
Calcium deficiency	5
Blue udder	5
Trauma	5
Sheath prolapse	5

Pneumonia occurred in animals in 8 provinces. Excellent vaccines against organisms causing pneumonia are available and your veterinarian can advise you on the use of these vaccines.

Tick numbers were recorded as follows: Blue ticks (8 provinces); Bont-legged ticks (6 provinces); Heartwater ticks (5 provinces); Brown ear-ticks (5 provinces) and Red-legged ticks (5 provinces). Tick and biting fly transmitted diseases were recorded in the following provinces: African red water (7 provinces) and Asiatic red water (7 provinces); Heartwater (6 provinces) and Anaplasmosis (8 provinces).

Internal parasites, causing production loss and mortalities to production animals were reported from most areas where good rainfall occurred in previous months. Wireworm infestations (8 provinces), and strains resistant to most anthelmintic groups, caused great losses to small stock!

Insect transmitted diseases decreased and only Blue Tongue were reported in 5 provinces. A new vaccine against Blue tongue was registered and is available.

Bull testing reports were received and Trichomonosis and Vibriosis were recorded from 5 provinces, leading to poor conception rates.

Biosecurity measures should be kept in place at all times! Foot and Mouth disease, Bovine Brucellosis (6 provinces), Trichomonosis (5 provinces), Cryptosporidiosis (6 provinces) and BMC (snotsiekte) are some of the diseases that farmers should constantly be aware of.

Regularly, farmers should sit down with their herd veterinarian to update management programmes – vaccinations, breeding, biosecurity and nutrition.

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

- 1. I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.

YES	NO
-----	----
- 2. The sheep for sale are clearly identified in the accompanying description.

YES	NO
-----	----
- 3. The sheep for sale were born on my farm.

YES	NO
-----	----
- 4. The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)

YES	NO
-----	----
- 5. I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.

YES	NO
-----	----
- 6. I have actively looked for Ovine Johne's Disease and have had tests done for this.

YES	NO
-----	----
- 7. To the best of my knowledge, my immediate neighbours and farms in my magisterial district of my farm(s) are free of cases of Ovine Johne's Disease.

YES	NO
-----	----

8. The sheep on my properties have been vaccinated against Ovine Johne's Disease and are clearly marked with the approved ear tag.	YES	NO
9. All lambs born are vaccinated	YES	NO
10. If vaccinated, the number of years that the vaccinations have been done is		years

NOTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers.
Statement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to other infected flocks by law.
Buyers should consult their veterinary advisor before any purchases.

Signature _____

Date _____

NAME _____

Farm: _____

OWNER OR AUTHORIZED REPRESENTATIVE

District: _____

The use of this declaration is supported by the following organisations:



Websites that are there to assist you with information regarding animal health:

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about:

<http://nahf.co.za/about/>

This website will become the information centre of animal health in Southern Africa.

On the toolbar click on **Stakeholders** and you will find links to producer organizations and other organizations who are participating in the NAHF

<http://nahf.co.za/stakeholders/>

Provincial Animal Health Forums have their own site – click on **Provinces** <http://nahf.co.za/provinces/>

Important is to study the Veterinary Strategy (2016 -2026) as it gives direction to where we are going with Animal Health in South Africa.

<http://nahf.co.za/wp-content/uploads/Vet-strategy-final-signed.pdf>

Click on **Info centre** for more information on the “war” we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease.

<http://nahf.co.za/category/diseases/brucellosis/>

Information on other controlled diseases (Foot and Mouth Disease, Ovine Johne’s Disease, Pest of small stock – PPR, and African Horse Sickness) is available.

This link will continuously be updated.

Information on **antibiotic resistance** is also available at this address: <http://nahf.co.za/category/antibiotic-resistance/>

Rural Veterinary Association of South Africa

www.ruvasa.co.za

Click on **Disease reporting** where maps and information can be sourced on the prevalence of diseases in all provinces. Abattoir reports are available. Use the information available to update management programmes

Internal parasite control

www.wormx.info

Farm gates, Fences and Foresight, the 3 F’s!

Bear this in mind as this is where most disease-causing organisms enter or exit farms!

Major examples are: Foot and mouth disease, brucellosis, Johne's disease, TB, cryptosporidiosis, trichomonosis, vibriosis, sheep scab, resistant parasites such as red lice, blue ticks and internal parasites (Buyer beware programmes).

Insist on **VENDOR'S DECLARATIONS** when buying animals.

Quarantine

Immunization programmes

Speak to your veterinarian

Abide the law- vaccinate cattle against anthrax and heifers against brucellosis!

For the detailed report and previous reports go to www.ruvasa.co.za and click on Disease reporting

Internal parasites

The following reports were received from practices regarding internal parasite infestations:

Internal parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Roundworms				x	x	x	x	x	
Resistant roundworms	x		x		x	x	x	x	
Wireworm	x	x		x	x	x	x	x	x
Brown stomach-worm							x	x	
Bankruptworm									
Long-necked bankruptworm									
White bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
White bankrupt worm									
Lungworm									
Eyeworm	x								
<i>Parafilaria</i>	x		x						
<i>Stephanofilaria</i>									
Tapeworms					x	x	x		

Liver fluke worms	x				x	x	x	x	
Conical fluke worms	x				x	x	x		
Cysticercosis (measles)					x			x	
Schistosomiasis (bilharzia)									
Coccidiosis	x	x			x	x	x		
Cryptosporidiosis	x	x		x	x	x		x	
Sarcosporidium									
<i>Giardia</i>									

Wireworm outbreaks were reported from 8 provinces.

BEWARE

A farm has been found where the wireworm strain on the farm is resistant to ALL active de-wormer groups

Check the eye mucous membrane colour of a group of sheep in all flocks weekly! Bottle jaws and pale eye mucous membranes are indications that deaths are just around the corner!

Get advice from your veterinarian to ascertain which de-wormer group(s) are still effective on your farm by doing a faecal egg count resistance test (FECRT). Visit www.wormx.info for training material.

The following table was received from Dr. Camilla Paterson (CamillaP@dalrrd.gov.za) from Act 36 of 1947 on 20 October 2022.

THE CODING OF ANTHELMINTICS

GROUP CODE	GENERIC CLASS OF ACTIVES	EXAMPLES OF ACTIVE INGREDIENTS
1.	Macrocyclic lactones	Avermectins

		Ivermectin
		Abamectin
		Doramectin
		Eprinomectin
		Selamectin
		Milbemycins
		Moxidectin
		Milbemycin oxime
2.	Benzimidazoles	Fenbendazole
		Flubendazole
		Albendazole
		Mebendazole
		Oxfendazole
		Oxibendazole
		Netobimin
		Triclabendazole
		Ricobendazole
3.	Imidothiazoles	Levamisole
4.	Salicylanilides	Closantel
		Niclosamide
		Oxyclosanide
		Rafoxanide
		Brationide
		Clixanide
5.	Nitrophenols	Nitroxinyl
		Disophenol
		Hexachlorophene
		Meniclofolan
		Niclofolan
6.	Sulphonamides	Clorsulon
7.	Organophosphors	Trichlorfon
		Dichlorvos
8.	Isoquinolones	Praziquantel
9.	Spiroindole	Derquantel (added after table compiled)
10.	Amino-acetonitrile	Monepantel (added after table compiled)
11.	Others	Piperazines companion animals
		Bunamidine
		Epsiprantel
		Nitroscanate companion animals

Check the number(s), codes on the labels of the worm remedies. Faecal egg count reduction tests (FECRT) should be done to determine which actives should be used on your farm for worm control. Worm resistance is a huge problem on many farms in South Africa.

Visit www.wormx.info for valuable information on parasite control!

Beware of liver fluke and conical fluke outbreaks when animals are grazing in wet areas where the intermediate hosts, water snails, are abundant.

Coccidiosis outbreaks were reported from 5 provinces. Young animals are most susceptible.

Cryptosporidiosis outbreaks, causing huge losses were reported from 5 provinces. Good colostrum in sufficient volume, protects new born animals. Biosecurity should be practised at all levels on the farm.

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&og=Cryptosporidium&gs_l=img.1.1.0I10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..qws-wiz-img.....0.o66yefU7Ric

Prevention of Cryptosporidiosis

Prevention is the best control method.

Animals with a well-developed immune system will generally overcome *Cryptosporidium* thus this should be the main aim in controlling *Cryptosporidium*.

A consistent, vet approved and farm appropriate vaccination program for other diseases.

Ensure no nutritional deficiencies especially vitamin A and Selenium

Excellent bio-security management

Ensure clean pathogen free water sources

Hygiene training of personnel

Consult your veterinarian

SOLUTION

HOLISTIC INTERNAL PARASITE MANAGEMENT FOR SHEEP AND GOATS

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INTRODUCTION

Over the past ten to fifteen years there has been a radical rethink on our previous worm control strategies and assumptions due to the ever-accelerating failure of anthelmintics globally. This has caused a quiet but drastic revolution in many of the “received wisdoms” which governed advice to farmers for close to a century.

For a start, we have to abandon the underlying philosophy that internal parasites are an evil plague which should be maximally suppressed, or preferably eradicated. We have to learn to live with parasites, and prevent only the unacceptable production losses, while simultaneously breeding animals fit for the environment, rather than making the environment fit for existing animals. By regarding parasites

as part of the natural order of things, we will be able to see them simply as potential problems to be managed in order to achieve optimum productivity and profitability.

Only well integrated, holistic planning has a long-term chance of success, and unless all elements of our potential armamentarium are harnessed, the results will not match the expectations.

While this paper applies to helminths, and mainly nematodes, the parallels and inferences which can be made for ectoparasites, and indeed other organisms, should be obvious.

WORM MANAGEMENT PRINCIPLES

A FLOCK MANAGEMENT REQUIREMENTS

Separation of Groups

Since different classes of animals vary in their susceptibility to worm infection and its effects, they should be separated into groups, which are grazed, treated and managed as distinct entities. If these distinctions are not made one may be forced to treat the flock according to the most susceptible group. The most susceptible groups can still be managed and treated more intensively in a mixed flock, but this becomes more difficult.

Identify the groups most at risk

Research has shown that the more susceptible animals are lambs/weanlings; and pregnant/lactating ewes. The former is susceptible because they cannot yet mount an effective immune response to infection, the latter are prone to infection because of a temporary suppression of immunity. (PPRR). These groups must get special attention.

Separation of pastures

Unless pastures can be divided by fencing or herding, all sheep will be exposed to a similar challenge, regardless of whether they are susceptible or resistant to infection and its effects. This will prevent any differentiation in management and treatment. Division of pastures is not only good for internal parasite control; it also aids pasture management. Electric fences can be used as temporary pasturage dividers. In communally farmed areas, herding or tethering can achieve the same result without fencing.

Resting of pastures

If pastures can be separated, it is then possible to rest them effectively, which has decided advantages to pasture management and improvement. If such pastures can be rested long enough, this will also have a significant effect on the survival of worm larvae and therefore the infection rate of the flock. Although the time needed for effective resting of pastures will vary with the climate, weather and worm species, a useful rule of thumb for effective resting is at least 3 months in subtropical for temperate climates, but as little as 1 month in the tropics. The longer the rest, the better it is for worm management.

Alternation of host species

Sheep and goats share the same worm species and alternation with one another is ineffective for worm management. However, other species like cattle, horses and ostriches are generally not susceptible to the worms of sheep and goats. If they are used to graze pastures before or after sheep or goats, they act as "vacuum cleaners" on the pasture, as they ingest many larvae which cannot develop further into egg-laying adults. The other advantage is that the pasture can still be utilised in its growing season, which prevents the grass from becoming senescent, and optimises its usefulness. This aids in maintaining the profitability of the farm.

Mend water leaks

Water points (troughs, windmills) should not be allowed to leak, as this encourages the growth of grass. Since this is where sheep concentrate, the area can become lethally contaminated by larvae.

Avoid grass in pens

Where sheep or goats have to be penned for lengthy periods (usually at night, to combat theft or predation) there can be a fatal buildup of larvae on the grass growing there. Sheep become hungry overnight and will eat these morsels of food. In consequence they will ingest massive numbers of larvae. It is therefore necessary to remove all grass from such pens.

Fence off moist areas

Areas particularly prone to high moisture and therefore the survival of worm larvae, like streams and marshes, should be separated to reduce the challenge of the flock.

Strategic movement of flocks

The aim should be to create "safe" (not necessarily "worm free") pastures. By planning changes in camps or paddocks, stock will be subject to lower challenges and need less chemical treatment. Any grazing system where a significant proportion of the pasture is rested for a full growing season will be particularly effective.

Quarantine and treatment

Do not simply introduce purchased animals into the flock or herd. They must be quarantined in a worm-unfriendly pen (bare earth or concrete) and treated intensively using the best drugs and schedule. If financially feasible, do an FECRT to ensure minimum carry-over of drug-resistant parasites. Then place them on infected pasture if there is no multiple resistance.

B GENETIC SELECTION

Selection for resistance

Resistance (the acquired or innate ability to prevent or minimize infection by parasites) is heritable and can be selected for, by measuring the faecal egg counts and using only those sheep with the lowest FEC's for breeding. For practical and economic reasons, this is usually only done for rams. Some successful breeding programs have been undertaken but they require good organisation and meticulous record keeping. Culling of bad ewes and their offspring is also practical and recommended.

Selection for resilience

Resilience (the ability to withstand the effects of infection and produce satisfactorily in spite of it) is also heritable. At present, only two proven methods, FAMACHA[®] and Haematocrit determination exist, although preliminary results suggest that Body Condition Scoring may also be useful. The FAMACHA[®] System can be used only where wireworm is the major parasite. By treating according to clinical anaemia (an indicator of poor resilience), only those sheep unable to cope with wireworm are treated. This reduces selection pressure for anthelmintic resistance and at the same time allows the farmer to cull the non-copers, in the long term thus being able to breed an animal better adapted to the environment.

It is also possible to select rams by a system of allocation of selection indexes. This is currently under investigation and will require measuring individual ram FECs and FAMACHA[®] scores (or haematocrits) to make the measurement more accurate.

C MONITORING SYSTEMS

FEC

Regular (monthly or 2 - monthly) monitoring of faecal egg counts on a group or flock basis will help to indicate when dosing is really needed, and equally important, when it can be delayed or even omitted. A bulk (composite) FEC comprising a single count of faeces pooled from equal samples from 10 to 20 sheep is certainly cheaper than dosing the whole flock unnecessarily. Keep graphs or tables of changes to indicate when parasite buildup is likely.

FECRT

Every farmer should have the flock tested for drug resistance in the worm population on his farm, at regular intervals of not less than two years. Only by knowing exactly what the state of anthelmintic resistance on a farm is, can appropriate action be taken. Generalisation such as "benzimidazole resistance is found on most farms" are not much use since they cannot tell us what the situation is on a particular farm. Just as important, we must know not only that resistance is present, but also how bad it is. Can we still use the drug group at all? Separate bulk faecal samples from each drug group will reduce the cost to acceptable levels.

FAMACHA[®] evaluation

Apart from selection and culling, this system also allows frequent, cheap and easy monitoring of the current situation as regards worm infection, but applies only to haemonchosis.

D OPTIMISE ANTHELMINTIC USE

Establish the important parasites species present

Unless the prevalence and importance of worm species is known, worm management becomes dangerous and unpredictable guesswork. It can also be ineffective and very costly.

Use the most suitable drug

If the parasites are ranked in order of economic importance and their susceptibility to groups of anthelmintics is known and combined with knowledge on the anthelmintic resistance situation on the farm, it is then possible to decide which drug(s) and formulations will be the most suitable in each situation. This includes their cost and a cost/benefit analysis. Neither the cheapest nor the most expensive drug is necessarily the best one to use. Beware of generic drugs sold by an unknown company.

Avoid too frequent treatment

The old approach of "dosing clean" must be completely abandoned, although not by reducing the dosage rate per animal. The aim has to be to treat only sufficient times and enough individual animals to maintain the equilibrium between parasite, host and environment (that is, worm management). Over-treatment ensures that only resistant parasites can survive. Minimal treatment programs must be the new watchword, but it must be ensured that every treatment is effective.

Treat all and stay

This is a major departure from the recommendations made for close to a century. If **all** sheep are to be treated, they should remain in the camp (paddock) where they were grazing before treatment. This will prevent sheep from contaminating a new pasture with only those resistant parasites which survived treatment, thus in the process unwittingly causing the selection for resistance parasites. In most cases they should remain in the paddock for at least 2-3 weeks after treatment to pick up unselected larvae for propagation of the susceptible worms in the new camp/paddock. However, should a long-acting anthelmintic be used, this period will have to be longer (2 to 3 weeks after the effective residual action ends). Particularly bolus (slow release) formulations should be used with great caution.

Treat selectively

It is preferable to treat only those sheep or goats unable to cope with the current infection challenge, provided the percentage of non-copers remains below 20%. This can be done with the FAMACHA[®] system for haemonchosis, or possibly with Body Condition Scoring for other parasites. If clinically unaffected animals are left untreated, an immediate move to new pasture will not be detrimental. In the absence of such selective treatment, just leaving a small percentage (10-25%) of the flock intentionally untreated can be beneficial to slow AR development.

Move then treat

Another way of achieving the same result as “treat all and stay” is to move the flock to a new “safe” pasture and delay treatment for 2-3 weeks, to allow the seeding of the new pasture with unselected worms, before treating the flock.

Herbal Remedies

These are often touted as the answer to worm control. However, unless they have been properly tested and proven by an independent body, they may be useless or even harmful.

E IMPROVED ANTHELMINTIC EFFICACY

Dose over the tongue

By placing the tip of the gun towards the back of the mouth, over the tongue, closure of the oesophageal groove does not occur and thus the full dose lands in the rumen where it is absorbed more slowly - this is particularly important for anthelmintic groups which rely on prolonged blood levels for their effect, like the benzimidazoles and macrocyclic lactones.

This prolonged level of activity (a long so-called "killing zone") means that the drug against which worms have developed a moderate degree of resistance can be made more effective, although of course the resistance of the worms is not reduced, but rather partially overcome. However, dosing (drenching) over the tongue, if done carelessly, can result in two very severe consequences:

the dose can land up the lungs, and cause pneumonia

the nozzle of the dosing gun can penetrate the pharynx and cause severe, fatal infection.

If the sheep jumps forward, the operator must let the gun 'ride' with the sheep, and not oppose it, and the dose must be delivered by a measured, steady pressure rather than a single squeeze.

Reduce feed intake

It has been shown in the case of benzimidazoles and closantel that reducing feed intake (i.e. starvation) for 24 hours prior to treatment will improve the absorption of the remedy because of the lower rate of flow of ingesta. As in the previous case, this results in a more effective exposure of the parasite to the drug.

In turn, this means that the drug is clinically more effective and can partially overcome drug resistance.

Repeat the dose

This only applies to benzimidazoles and macrocyclic lactones. Two doses given 12 hours apart will again increase the "killing zone" of these drugs, allowing more time for a cumulative killing effect. Thus, resistant worms can still be killed, although this is achieved at a cost since two normal doses rather than one are needed. A double dose, given at one time, will have **no** beneficial effect with these two groups of anthelmintics.

Increase the dose

This only applies to drugs which rely mainly on peak concentrations for their effect. In this case, a double amount of drug given at one time can overcome drug resistance in worms. This is useful for

the imidasothiazoles (levamisole). There is however a relatively low safety margin, only 2x – 3x the therapeutic dose may sometimes cause problems of toxicity.

Correct dosage

It may seem too obvious, but a lot of problems are caused by not weighing sheep, not calibrating and checking the dosing gun for accuracy and repeatability, and not reconciling the amount of drug used with the number of sheep treated. Underdosing may be a factor leading to anthelmintic resistance, but it is more likely to be the cause of ineffective treatment.

Drug combinations

Combining drugs from different activity groups in one dose may temporarily improve the effective clinical action of these drugs, but only if each drug concerned is unaffected by resistance. However, many authorities believe that this will not slow the development of resistance and could even enhance it. If drugs are mixed, this can only be done if the formulation has been fully tested and carried by experts, in registered products. Home-made combinations are dangerous and illegal. Such combinations often just give temporary relief and disguise the emergence of AR until it is severe and multiple.

Sustained delivery

Medicated blocks or controlled release capsules will increase the clinical efficacy of those drugs which rely on prolonged action for their effectiveness. However, we have to bear in mind that prolonged exposure to a drug at low levels will increase selection for resistance. This approach will therefore not be permanent, and should only be used for very specific, limited purposes (e.g., weaners on green pasture) and not the entire flock in all circumstances.

Goats are different

Because of differences in the rate of metabolising drugs, goats must be treated as different to sheep. This means that goats must often be given a higher dosage rate than sheep except where there is a possibility of toxicity. Note that many anthelmintics may not be registered for use in goats, or that the recommended dose given is the same as for sheep. Unfortunately, therefore if the product is not registered for use in goats, or the dosage rate is increased, the user has no legal redress if the product is used and fails, or causes losses.

F EFFECTIVE PLANNING

Use the expert

Knowledgeable veterinarians, who know the area, farming systems and risks can construct a simple, practical, economic and effective holistic worm management strategy. They can consult helminthologists where necessary.

Use a program

Unless a basic planned system is in place and is used, actions will inevitably be largely reactive and based on *ad hoc* or panic decisions. But this does not imply a rigid adherence to the basic plan.

Flexibility

The program must be flexible to allow for changes in weather, management and farming systems, drug costs or other factors.

Treatment strategy

It is probably true that on most farms animals are either dosed too often, or with inappropriate drugs, or at the wrong times, or with no coherent plan. By setting up a well thought out dosing plan, we can cut out ineffective doses which only add to the selection pressure for parasite resistance. This is one of the areas in which the knowledge and skills of the local vet are vital for success.

II OTHER MEASURES AND FACTORS

Protein supplementation

Since resistance and resilience are dependent on adequate nutrition, and the most important factor identified is protein, it is possible to ameliorate the effects of parasites by feeding animals better. We need to know when and how much of what supplement must be supplied to which class of animal, and what the cost / benefit ratio would be before this aspect can be fully integrated into our overall approach.

Condition scoring

The early indications are that this may be useful for identifying individual animals for treatment against some non-haematophagous worm species. The principle is that animals with a condition score which is more than half a score **below** the flock or herd average are treated. If the animals have a condition score below 2 and the risk of worm infestation is high, then treatment should be given.

Weather monitoring

Factors which affect the survival, development and infectivity of larvae on pastures must be considered. Temperature, rainfall, rainfall pattern, humidity and cloud cover will all have an effect and must be considered when making worm management decisions.

Flock/Herd history

Without knowing details of numbers, types, ages, reproductive stages, treatment, stocking rates, grazing pressures and livestock movements, decision making is at best arbitrary and at worst potentially disastrous.

Veld/pasture assessment and history

Coupled with livestock data, the advisor has to consider details of the veld or pasture type, its condition, growth stage, the soil cover, soil moisture, slope and the grazing history.

Assessment and decision support computer programmes

A few of these are available internationally, others are under development. Using computer power, they evaluate all the known risk factors and advocate alternative actions based on the given situation and data provided. The evaluation is of course only as good as the inputs given and these programmes cannot substitute entirely for the skills, knowledge and assessment of the advisor or the farmer.

III CONTROL MEASURES UNDER DEVELOPMENT

Predacious fungi

Nematophagous fungi in the soil can severely constrain larval survival by immobilizing and killing them. Practical implementation is, however, still a long way off.

DILUTION OF RESISTANCE

By the re-introduction of susceptible strains to a farm where a parasite strain has become resistant to anthelmintics, it is possible to significantly reduce the degree of resistance by a dilution effect. There is some indication that this can be effective on severely affected farms, but the process is slow, labour-intensive and costly.

Vaccination

A vaccine against wireworm is now available, discuss its use with your veterinarian

Condensed Tannins

Plants containing higher levels of tannins suppress worm egg counts, but also have problems with palatability and digestibility.

Cupric oxide

Needles of oxidised copper wire dosed into the rumen will reduce worm egg counts, but the long-term toxic effects (especially with sheep) have to be considered, especially if the diet is high in copper.

Change in body weight

Lack of satisfactory weight gain, or even weight loss, can be considered as indicators for the treatment of individual animals in a flock. However, weighing is time consuming and may not be applicable in a given situation.

IV INTEGRATED PARASITE MANAGEMENT

If any of the foregoing principles are used exclusively, failure will be certain. It is only by using a prudent mix of strategies that sustainable, cost-effective measures can be established. The decision on which measures are to be used in a given situation can only be made by an expert who is conversant

with local conditions. This programme will of course have to be drawn up in close consultation with the livestock owner(s).

Whether the farming system is based on communal ownership, subsistence farming, small-scale farming, commercial farming or stud farming, the principles remain the same. Only the mixture and weighting of measures used to manage parasites will vary according to circumstances.

V ACTION CHECKLIST

To implement the holistic use of all the available worm control strategies and principles, the veterinary advisor needs to go about setting up a sustainable programme methodically. The starting point is always the basic management programme, although even this may need to be modified to accommodate sustainable parasite control. Once the key activities like lambing, mating and shearing have been established, and the basic grazing programme has been decided, the requirements of effective parasite management may be superimposed. Planning is a dynamic and never-ending activity, and plans need to be revised each year as necessary.

By following the checklist, advisors can ensure that all appropriate measures have been considered and used:

1. Make sure that the farmer understands and supports the need for change
2. Ensure that all measures are practical, integrated and financially defensible
3. Use an incremented approach, do not try to do everything at once
4. Evaluate and use knowledge in stock flow, reproductive programme, grazing systems, pasture or veld conditions and weather to decide on appropriate and integrated worm management actions.
5. Are the groups/classes of animals properly separated? If not, implement this if possible.
6. Give weanlings and late pregnant/lactating ewes most attention and the best circumstances
7. Are the pastures properly fenced, and are there enough camps for effective management?
8. Implement a satisfactory pasture resting program. Keep well rested pastures for susceptible groups
9. Graze camps sequentially by cattle, small stock and other host species if available
10. Make sure that animals are getting the right nutrition, especially protein, and avoid putting animals in poor condition onto high- risk pastures
11. Mend water leaks and fence off moist areas
12. Remove all grass from pens where animals are routinely held for long periods
13. Buy rams selected for resistance (FEC) and/or resilience (FAMACHA[®]/haematocrit)
14. Cull the minority of ewes which are unable to cope with prevailing parasite burdens
15. Institute a planned program for FECs to monitor the parasite situation
16. Ensure that the FECRT is done every second year
17. Introduce TST and Institute the FAMACHA[®] system for haemonchosis or BCS for other worm species
18. Ensure that the types and relative importance of parasites have been established on each farm as well as when they are likely to occur
19. Select and use the best drug for each situation

20. If all animals are treated, do not move to new pastures for 2-3 weeks or longer depending on the drug and formulation used
21. Ensure that the drug used is given in the most effective way
22. Quarantine and treat all introductions and put them onto infected pasture
23. Stick to what is possible in a given situation

**FAMACHA cards can be obtained through your veterinarian
(famachasystem@gmail.com)**

Serious problems due to diarrhoea in lambs and calves were received from many areas. In many instances *Cryptosporidium* and pathogenic strains of *E. coli* were involved. Consult your veterinarian for help!

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0i10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric

External parasites

The following reports were received from practices regarding external parasite infestations:

External parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Blue ticks	x	x	x	x	x	x	x	x	
Resistant blue ticks					x	x			
Heartwater ticks	x	x	x	x		x			
Brown ear-ticks	x	x			x	x			x
Bont-legged ticks	x			x	x	x	x	x	
Red-legged ticks	x			x	x	x	x		
Paralysis ticks	x				x				x
Tampans									
Biting lice	x				x	x			
Sucking lice					x		x		x
Fleas									
Itch mites	x								
Sheep scab					x		x		x

Mange mites	x				x	x			
Nuisance flies				x	x	x	x	x	
Midges	x			x	x	x			
Mosquitoes					x	x			
Blowflies	x	x		x		x			
Tsetse flies						x			
Screw-worm							x		
Gedoelestia (uitpeuloogsiekte)									
Nasal bot	x	x			x				

Blue ticks were reported from 8 provinces. Blue ticks (African and Asiatic blue ticks) are able to transmit African and Asiatic red water, anaplasmosis and lumpy skin disease.

Make sure to assess the blue tick resistance status on your farm before buying tickicides. Your veterinarian will be able to collect engorged blue ticks to be tested for resistance.

Heartwater parasites, are transmitted by bont-ticks.

Ticks also cause anaemia, udder, ear and hide damage.

Most important is to prevent udder damage. Ticks with long mouth parts such as bont and bont-legged ticks, may cause permanent damage to teats and the udder.

Screw-worm infestation is rife after tick damage.

Actives to be tested for resistance are: organophosphates, pyrethroids, amidines and fipronil. Actives, only registered for controlling blue ticks are: macrocyclic lactones, fluazuron (acaracide growth regulator).

Discuss your tick control programme with your veterinarian.

Tick borne diseases

The following tick-borne diseases were reported by practices in the provinces:

Tick borne diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
African red water	x		x	x	x	x	x	x	
Asiatic red water	x	x	x		x	x	x	x	
Anaplasmosis	x	x		x	x	x	x	x	x
Heartwater	x	x	x	x		x	x		
Lumpy skin disease						x			

Corridor disease							x			
Theileriosis										

Asiatic red water is spreading and is one of the deadliest diseases in cattle.

Deaths occur when introducing susceptible animals into areas where tick borne diseases are present!

Numerous mortalities were reported.

Vaccinate your animals before 8 months of age. Contact your veterinarian for advice!!

Anaplasmosis outbreaks were reported from 8 provinces! Biting flies are the main transmitters of this disease.

Using the same needle when vaccinating cattle may also be the reason for an anaplasmosis outbreak!

Red water and anaplasmosis can be confirmed by examining blood smears under a microscope.

The keyword is: **vaccinate** your animals! Contact your veterinarian.

Beware of moving susceptible animals into areas where infected ticks are present or moving animals with infected ticks to disease free areas! Before deciding to buy animals speak to both veterinarians – from the area moving the animals and the area where they are moving to.

Tick toxicosis

Tick toxicosis	MP	G	L	NW	FS	KZN	EC	WC	NC
Sweating sickness				x					

Sweating sickness is caused by a toxin injected into calves by females of the bont-legged tick specie.

Insect transmittable diseases

The following insect transmittable diseases were reported by practices in the provinces:

Insect transmittable diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Lumpy skin disease				x	x	x			
Pseudo Lumpy skin disease (Allerton virus)									
Ephemeral fever (Three-day-stiff sickness)		x			x	x			x
Blue tongue				x	x	x		x	x
Rift Valley Fever									
Wesselsbron disease									

Nagana							x			
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Make sure your animals are vaccinated before the next rainy season!!!!!!!!!! Do not vaccinate your animals during an outbreak on your farm.

Lumpy skin disease is transmitted by biting flies and insects and some ticks. When an outbreak occurs on a farm, needle transmission of the virus is possible. Three provinces reported this disease. If proper vaccination took place hardly any cases should be reported.

Three day stiff-sickness and lumpy skin disease, low conception rates were reported in herds where these diseases were rife.

Five provinces reported Blue Tongue. As midge, mosquito and biting fly numbers decreases due to colder temperatures, insect transmitted diseases will also decrease

A new inactivated blue tongue vaccine was registered.

An abortion storm may indicate an outbreak of Rift Valley Fever. This viral disease is a zoonosis. Do not come into contact with infected material such as afterbirths and blood.

Contact your veterinarian immediately when having an abortion storm in your animals

Veneral diseases

The following venereal diseases were reported by practices in the provinces:

Venereal diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Trichomonosis	x			x	x	x			
Vibriosis	x			x	x	x	x		
Pizzle disease									
<i>Actinobacillus seminis</i> plus HPA					x				

BEWARE

New cases of trichomonosis are reported every month and this disease is out of control.

Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 4 provinces.

Veneral diseases are HERD diseases! Calculate your losses if these diseases are not eradicated on your farm!

Make sure that fences are in good order and gates closed so that bulls cannot escape to neighbouring cows that may be infected with *Tritrichomonas* and become infected or infected neighbouring bulls are jumping fences to your farm.

Cattle study groups should discuss preventative and control measures with their veterinarians. **Be sure to test bulls regularly for these diseases.**

Beware when buying in or sharing bulls! Remember female animals may also be infected.

Study the Good management SOP's for cattle farmers on the RPO website

Consider Trichomonosis as an area disease, farmers should work together to keep areas free from diseases such as trichomonosis, brucellosis, tuberculosis, Johne's disease and sheep scab.

Bacterial diseases

The following bacterial diseases were reported by practices in the provinces:

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Anthrax									
Blackquarter	x	x		x	x	x		x	
<i>Clostridium sordelii</i>									
<i>Clostridium septicum</i>									
Clostridial diseases									
Botulism	x								
Pulpy kidney	x	x		x	x	x	x		x
Lamb dysentery									
Swelled head	x			x	x	x			
Red gut (cattle)	x					x			
Blood gut (sheep)	x				x	x			x
Tetanus		x			x		x		
Salmonellosis	x					x			
<i>Klebsiella</i>									
Bovine brucellosis	x		x	x	x	x	x		
<i>Brucella melitensis</i> (goats)									
Ovine brucellosis (Ram's disease)					x				
Bovine tuberculosis						x			

Johne's disease									
Leptospirosis									
Listeriosis									
<i>Pseudomonas</i>						x			
Pasteurellosis (see pneumonia - lungs)	x	x	x	x	x	x	x	x	
<i>Pasteurella multocida</i>									
<i>Fusibacterium necrophorum</i>									
Septicaemia	x			x	x	x			
<i>E. coli</i>			x		x	x		x	x
<i>Klebsiella</i>									
<i>Coxiella</i> (Q-fever)						x			
<i>Mycoplasma</i>									
<i>Histophilus somni</i>									
Enzootic abortion	x		x		x		x	x	
Lumpy wool (<i>Dermatophilus</i>)									
Bovine dermatophilosis (Senkobo disease)						x			
Uterine gangrene									
Wooden tongue (<i>Actinobailillus lignieresii</i>)									
Lumpy jaw (<i>Actinomycosis bovis</i>)								x	
Interdigital dermatitis									

Most of the bacterial diseases can be prevented through vaccination! Discuss and update your program regularly in consultation with your local veterinarian!

Multi-clostridial vaccines should be used if blackquarter outbreaks still occur when only using a vaccine containing *Clostridium chauvoei*. Remember to give a booster vaccine when using an inactivated vaccine for the first time. **Read the packet insert!!** Study the table above and determine the risk for animals getting infected from bacterial and viral diseases on your farm.

Get advice from your veterinarian on *Cryptosporidium/E. coli/Rota* and Corona virus outbreaks in your area and what to do to prevent losses in lambs and calves. **Biosecurity!!!!!!!!!!**

Enzootic abortion contributes to the disappearance (verdwyning siekte) of foetuses in sheep and goats scanned pregnant. **Vaccinate replacement ewes with the live vaccine before putting them to the ram! An inactivated vaccine can be given to pregnant animals.**

Pulpy kidney (*Clostridium perfringens* type D – epsilon toxin) is still the biggest killer of sheep. There are various factors that could lead to pulpy kidney such as: the intestinal tract stops functioning (stasis), sudden change from poor veld to lush artificial pastures; sudden change in diet; grazing of fodder crops such as lucerne, green wheat and green oats, diet high in protein, overeating of concentrates or fertile pastures, deworming and coccidiosis infection. Sudden changes in the weather and grazing in wilted pastures, may also play a predisposing role.

Be sure to vaccinate animals against botulism especially if chicken litter is going to be fed to animals. Make sure that there are no carcasses in the water troughs and bales. Prevent pica by giving licks containing phosphorous.

Q-fever, a zoonosis, seems to be more prevalent, beware! An abortion storm in sheep should make farmers aware of Q-fever!

Challenging farmer’s unions and study groups to eradicate brucellosis in their area!! Many success stories are received! Brucellosis is a herd disease!!!

Ask for vendor’s declarations before buying in animals and quarantine them before releasing them onto the farm!!!!

Calves may become infected when drinking infected colostrum!

A positive heifer is a TROJAN HORSE!!! This latent carrier of brucellosis may only test positive after calving!!!!!!

Use a dedicated syringe just for using Strain 19 vaccine. Paint it red! When administering Strain 19 vaccine in adult cattle, these animals may test positive for brucellosis. A few Strain 19 bacteria may remain in a syringe to be used for other vaccines.

PREVENTION IS BETTER AND CHEAPER THAN TREATMENT!

Do not save yourself bankrupt!

Q-fever, enzootic abortion, brucellosis, are all zoonotic diseases and should be handled with utmost care!

Viral diseases

The following viral diseases were reported by practices in the provinces:

Viral diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
BMC (snotsiekte)				x	x			x	x
Rabies (cattle and sheep)			x		x				
BVD	x		x			x			

IBR					x				
BRSV									
PI3									
Maedi visna virus									
Rotavirus									
Coronavirus									
Enzootic bovine leucosis (EBL)						x	x	x	
Foot and Mouth Disease							x		
Sheep leucosis									
Jaagsiekte				x	x				
Orf	x			x	x	x	x	x	
Warts	x	x		x	x	x		x	x
Herpes mammillitis - goats									

There is no treatment for viral diseases with the result that the animal's immune system has to be stimulated by vaccinations (if vaccines are available).

Preventative vaccinations are the best way to protect animals against viruses and bacteria causing pneumonia.

Keep cattle and wildebeest well separated especially when wildebeest are under stress to prevent snotsiekte outbreaks! There is also a sheep associated form of the disease.

Have a dialogue with your neighbour if wildebeest are in the area.

BMC (snotsiekte) is a notifiable disease and have to be reported to the State Veterinarian.

<http://nahf.co.za/controlled-and-notifiable-diseases/>

Discuss vaccination programmes and biosecurity measures with your veterinarian.

Orf (vuilbek) is a zoonosis.

Enzootic bovine leucosis virus is transmitted by blood (vaccinations, rectal examinations, certain procedures, etc.) This disease, EBL, can be latent in your herd. As there is no vaccine available, be extra careful not to introduce the disease into your herd. More information is received warning us that this disease is also a zoonosis. Talk to your veterinarian as to take necessary precautionary measures.

Fungal diseases

The following fungal disease was reported by practices in the provinces:

Fungal diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Ringworm	x	x	x	x	x	x	x		x

Protozoal diseases

Protozoal diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Besnoitiosis (olifantsvelsiekte)			x	x					

Toxicities

All plants and chemicals that have been responsible for toxicity in the past are listed. The following toxicities were reported by practices in the provinces during May 2024:

Toxicities	MP	G	L	NW	FS	KZN	EC	WC	NC
Cardiac glycoside									
Slangkop									
Gifblaar									
Gousiekte									
Wilde dadel									
<i>Cestrum</i> (ink berry)		x		x	x				
Tulip	x				x	x		x	
<i>Cynanchum</i> (bobbejaantou)								x	
Facial eczema								x	
<i>Lantana</i>						x			
Prussic acid								x	
Damkweek (cyanide)									
<i>Acacia nilotica</i>									
<i>Senecio</i>									
<i>Cotula nigellifolia</i> (stagger wood)									
Geeldikkop (duwweltjies) and dikoor				x					
Vermeersiekte (<i>Geigeria</i> spp.)				x		x			
Misbek (plant poisoning)									
<i>Hertia pallens</i> (Nenta, krimpsiekte)								x	

<i>Chrysocoma ciliata</i> (bitterbos)									
<i>Crotalaria</i> (stywesiekte bossie)									
<i>Solanum incanum</i> (maldronksiekte)									
<i>Dipcadi glaucum</i> (wild-onion, malkop ui)									
<i>Gnidia burchelli</i> (Januariebos, besembossie, harpuisbos)									
<i>Gomphocarpus (Asclepias) fruticosus</i> (milkweed)									
<i>Heliotropium</i> (potato weed)									
Bracken fern									
January bush (<i>Gnidia polycephalatus</i>)									
Chinkerinchee									
Ceylons rose									
Datura									
<i>Sarcostemme viminale</i> (melktou, caustic bush)									
<i>Malva parviflora</i> (kiesieblaar)							x		
Bitou									
<i>Cotula nigellifolia</i> (Stagger weed, stootsiektebossie)									
Eucalyptus (bloekom) bark/leaves								x	
Black locust tree (<i>Robinia pseudoacacia</i>)									
<i>Nerium oleander</i> (Ceylons rose)									
Kikuyu									
Ryegrass									
Grass staggers									
Lush pastures (Dikkop)									
Lasiospermum (Ganskweek)									
<i>Solanum incanum</i>									

Paspalum staggers									
<i>Phalaris aquaticum</i> (Phalaris staggers)									
Photosensitivity (Turksnaald, <i>Erodium moschatum</i>)									
Photosensitivity (Stellenbosch)									
Photosensitivity (secondary)									
Swelled head (Dikkop) toxicity									
Sporodesmin toxicity									
Lusern									
Mycotoxycosis						x		x	
Apergillus									
Aflatoxin									
Diplodiosis									
Lupins									
Soya					x				
Syringa berries									
Acorn									
Cycad									
<i>Alium cepa</i>									
Kraalbos, Geelbos (<i>Galenia africana</i>)									
Radish									
Carrot poisoning									
Onion poisoning									
Bracken fern									
Pollen beetle (<i>Astylus atromaculatus</i>)									
Senna toxicity									
Water contamination						x			
Oxalates									
Nitrate					x				

Amaranthus									
Tannins									
Urea					x				
Excessive protein									
Salt									
Snake bite				x		x			
Bee stings									
Moth cocoons (impaction)									
Blue green algae					x				
<i>Microcystis aeruginosa</i>									
Copper					x				
Selenium									
Zinc									
Calcium overdose								x	
Zinc sulphite									
Fluoride									
Lead									
Arsenic									
Alcohol poisoning									
Chemical products									
Paraquat									
Phosamine									
Aldicarb									
Organophosphate									
Zinc phosphide									
Xanthium									
Pyrethroid									
Amitraz									
Levamisole									

Macrocyclic Lactone/Ivermectin									
Moxidectin									
Oxytetracycline									
Tilmicosin									
Bromoxynil nitrate									
Ionophor									
Monensin									
Hypo									
Diazinon									
Carbofuran (carbamate)									
Glutaraldehyde									
Glyphosate									
Chemical products									
Chicken litter									
Medicated maize seed									

Keep all chemical products locked!

Beware when buying animals or moving them into rested grazing camps as they are the animals which usually eat toxic plants such as gifblaar, tulip, gousiekte, and ink berries (*Cestrum*).

Do have activated charcoal on the farm as charcoal is the antidote for tulip poisoning! Dosage: 2 gram per Kg body weight, 1 Kg charcoal for 500kg animal. Toxic plants are sometimes eaten by young animals that do not know these plants are toxic. Be aware of this situation and know where these plants are growing on the farm.

Urea poisoning occurs every now and then on farms. **Make sure that licks containing urea are mixed and formulated properly. Many mortalities were reported where mixing instructions and calculations were not followed correctly! Make sure that licks containing urea do not get wet during the rainy season.**

Every now and then goats die when they are injected in the neck area, rather inject them in the tail fold or behind the shoulder.

Nutritional deficiencies

The following nutritional deficiencies were reported by practices in the provinces:

Deficiencies	MP	G	L	NW	FS	KZN	EC	WC	NC
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Energy	x			x	x	x			
Protein	x	x		x	x	x	x		
Phosphate								x	x
Calcium				x	x	x	x	x	

It is important that ewes and cows receive sufficient supplementation so as to have optimal colostrum quality for their offspring!

Micro-nutritional and vitamin deficiencies

The following micro-nutritional deficiencies and vitamins were reported by practices in the provinces:

Deficiencies	MP	G	L	NW	FS	KZN	EC	WC	NC
Iodine									
Copper						x		x	
Zinc									
Selenium	x	x	x	x	x	x		x	
Magnesium				x				x	
Manganese									
Vitamin A			x	x	x				
Vitamin B 1					x			x	
Vitamin E		x						x	

There are antagonists such as calcium, iron and sulphur which hamper the uptake of micro-minerals. Have water and soil samples analysed to see what the levels of these antagonists are. Arrange with your veterinarian to have liver samples analysed to determine the status of these micro-minerals in your herd or flock.

Selenium is a powerful anti-oxidant and necessary for immunity. Check the selenium status of the herd.

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A and Zinc during winter and drought conditions.

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC

Abortions	x			x	x	x	x	x	x
Stillbirths					x	x		x	
Abscesses	x	x	x	x	x	x	x	x	
Intestinal ulcers									
Intestinal perforation									
Peritonitis									
Bladder stones –urolithiasis				x	x			x	
Blindness	x				x	x		x	
Bloat	x	x		x	x	x		x	
Oesophageal obstruction									
Blue udder	x			x	x	x		x	
Diarrhoea	x	x		x	x	x		x	
Epididymitis	x	x				x		x	
Eye cancer	x	x			x	x			
Eye infections	x	x	x	x	x	x	x	x	x
Skin lymphoma									
Neoplasma									
Allergic insect bites									
Joint ill	x			x	x	x	x	x	x
Cystitis									
Icterus									
Lameness/foot problems	x	x		x	x	x	x	x	
Lung infection	x	x		x	x	x	x	x	
Mastitis	x	x			x	x		x	x
Navel ill					x	x		x	
Abdominal hernia									
Umbilical hernia									
Red gut (sheep, torsion of gut)									

Rectal prolapse									
Rumen stasis						x			
Peritonitis									
Abdominal impaction									
Vagal indigestion		x							
Abdominal hernia									
Intussusception									
Floppy kid syndrome									
Swelsiekte									
Traumatic reticulo-peritonitis	x			x	x			x	
Trauma	x				x	x		x	x
Teeth wear									
Plastic bags (ingestion)									
Sand impaction									
Intussusception									
Downer		x		x	x			x	
Obturator nerve paralysis									
Anorexia									
Poor condition									
Anaphylactic shock									
Immune incompetence									
Vestibular syndrome (middle ear infection)									
Hernia									
Deformaties									
Wet carcasses at abattoir					x			x	x
Yellow carcasses at abattoir								x	x
Pseudomonolysis									
Mismothering	x					x			

Neonatal deaths									
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Discuss the origin, treatment and prevention of these diseases with your veterinarian.

Lameness and eye conditions are a huge problem in most parts of the country.

The cause of abortions should be established: brucellosis, enzootic abortion, Q-fever, leptospirosis, Rift valley fever, infectious disease causing a fever, etc. The necessary preventative measures can then be taken.

Metabolic diseases

The following diseases were reported by practices in the provinces:

Metabolic diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Acidosis	x			x	x			x	
Displaced abomasum						x			
Ketosis (domsiekte)					x			x	
Milk fever					x			x	

Make sure that you adapt animals to feed containing concentrates as more and more cases of acidosis are reported when grazing animals on harvested maize fields. Overeating of soya leads to an alkalosis.

Discuss the aetiology, treatment and prevention of these diseases with your veterinarian.

Reproductive diseases

Reproductive diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Dystocia (difficult births)	x	x		x	x	x		x	x
Mummified foetus									
Endometritis		x			x	x		x	
Metritis				x	x	x		x	
Hydrops									
Foetal maceration									
Poor conception	x		x	x	x	x		x	

Retained afterbirth	x	x		x	x	x		x	
Uterine rupture									
Sheath prolapse	x	x		x	x	x			
Sheath infection									
Uterine prolapse	x	x		x	x	x		x	
Vaginal prolapse	x	x	x	x	x	x		x	
Penis injury									
Orchitis									
Sub-fertile rams									
Sub-fertile bulls									
Vesiculitis in bull									
Hypogonadism (testes hypotrophy)									
Ruptured tunica albuginea									

Secret of making money is to have an offspring of EACH heifer, cow, ewe or doe on the farm and wean that calf, lamb or kid EVERY YEAR!!

A poor conception rate on many farms is a huge issue. Consult your veterinarian to rectify this problem.

Environmental conditions

	MP	G	L	NW	FS	KZN	EC	WC	NC
Environmental conditions									
Exposure to cold				x			x	x	
Frozen to death				x					
Heat stress									
Lightning					x				
Electrocution									
Drought									

Other conditions

	MP	G	L	NW	FS	KZN	EC	WC	NC
Drug residues (milk, meat, liver, kidney, etc.)									
Dermatoparasitosis									
Genetic disorders									
Predators	x	x		x	x				
Theft/Sabotage	x			x	x	x			
Trauma (fractures etc)	x	x						x	
Trauma (veldfires)		x							
Cause of death not established				x					

In the CODE OF CONDUCT of the RPO the following standard operating procedures are documented. The local veterinarian should be your partner to help you achieve the necessary standards.

RPO CODE OF BEST PRACTICE - Red Meat Producers Organization

7.3 Health and disease

Maintaining health and preventing disease are partly management and partly control driven. For further information RPO and NERPO members should consult the Animal Diseases Act, No 35 of 1984 (including the Animal Disease Regulations, R. 2026 of 1986) and in association the Animal Protection Act, No 71 of 1962. The Animal Diseases Act amongst others provide for measures to promote animal health and control animal diseases.

Many husbandry and managerial practices are required to prevent production losses, disease and discomfort. Some procedures may result in short term distress, but if not implemented can lead to even greater distress and pain. Principles here are:

- Procedures that cause pain must be minimized and not performed if practical alternatives exist.
- On farm health and disease control management procedures must be done by competent and experienced operators under the guidance or supervision of a registered veterinarian.
- Immunizations against anthrax and bovine brucellosis must be given strictly according to law. Furthermore, farmers should participate in the bovine brucellosis and tuberculosis test schemes to promote herd health.
- Every animal must be permanently identified by a registered branding or tattoo mark (Animal Identification Act, No. 6 of 2002) as well as an individual identification tag or mark.
- Movement control measures should be complied with.
- Preventative animal health measures should always be taken.
- Animals brought onto the farm should be quarantined to ensure that infective diseases and resistant parasites are for bovine brucellosis, bovine viral diarrhoea and tuberculosis.

- Fences and gates should be intact to secure biosecurity. If possible, consider jackal and warthog proof fences.
- A list of government controlled and notifiable diseases is on the website of the DALRRD. Such diseases must immediately be reported to the State veterinarian, should they occur on the farm.
- Farmers should be aware of zoonotic diseases such as bovine brucellosis, tuberculosis, rabies, Rift Valley fever, anthrax and they should take the necessary steps to protect their workers and themselves.
- Medicines including parasiticides must be safely stored and empty containers, expired drugs, used needles, syringes and materials discarded according to prescribed procedures.
- Protective clothing should be supplied and worn by employees working with poisonous substances and infective material.
- The necessary training should be given to employees handling animals, vaccines, drugs, materials and instruments.
- Kraals and crush pens should be constructed in such a way that injuries to people and animals are restricted to a minimum.

Owners and managers should ensure that livestock are routinely monitored for overall health and maintaining condition. A sound health program must be developed and implemented to the benefit of the herd and traceability purposes (see Section 7). This should be done in consultation with a veterinarian and the monitoring should include regular inspections of welfare issues such as feed, water, protection against climatic extremes, disease, injury, morbidity and distress. Each farm should be visited at least once a year by the herd veterinarian to assess the relevance of the herd health program and to monitor and certify the correct implementation of the program.

Sick or injured animals must be attended to promptly, treated appropriately or killed humanely in an accepted manner and within specified legal parameters. If remedies are required, only lawfully registered drugs should be administered strictly according to the instructions of the manufacturer and adherence to the prescribed withdrawal periods. Where applicable, medicines must be administered according to the prescription of the veterinarian.

Owners and managers should be aware of the irresponsible use of antibiotics and parasiticides as they can cause potential damage to the environment and user, including the development of resistant organisms and parasites. Therefore, these products must never be administered routinely, but only when required.

7.4 Biosecurity and disease control:

Biosecurity, from a disease control perspective, relates to proactive steps and measures that need to be taken on a permanent or temporary basis to limit the spread and effect of contagious disease. This could for example be in the form of routine testing as in the case of TB (Tuberculosis) and CA (Brucellosis), which are ever present, vaccinations as in the case of Anthrax, or movement restrictions as in the case of a Foot and Mouth outbreak in the disease management areas, where the restrictions are lifted once the threat is considered over. The reader is referred to Addendum 1 (attached) for specific precautionary measures to prevent diseases being imported onto the farm.

In principle the less contact animals have with each other the better the disease (which is continuously eroding the value of the national herd and the productivity of the livestock farmer) can be limited or controlled.

Livestock farmers need to undertake to function within the law with respect to controlled diseases (these are usually diseases that affect human health or diseases that cause damage to the economy) and not do things that put other farmers at risk. One example is the farmer should not send animals from a CA positive herd/farm to an auction, even if the individuals to be sold tested negative, as these animals may be latently infected. Prospective buyers should always be informed of the CA status of the herd/farm if cattle are to be sold. However, it is strongly discouraged to

sell animals from positive CA herds if the farm is still under quarantine. Lack of compliance with regards to selling of potentially diseased animals erodes the health of the national herd.

There are several tools that can facilitate implementing effective bio-security measures:

- A healthy working relationship should be developed with the local veterinarian to keep up to date with the changing disease landscape and timely implement the appropriate measures.
- An appropriate immunization program should be obtained from the local veterinarian and persist with it. Farmers need to understand why they follow the program as it will help with motivation.
- Farmers should routinely test for efficacy of their production parameters and for the presence of diseases that are hard to detect, such as Trichomoniasis, Vibriosis, CA and TB.
- Animals that are affected by unfamiliar diseases, should be tested immediately and those that die should receive a post-mortem timeously and appropriately to protect the rest of the herd.
- It is ideal to maintain a closed herd. If new genetic material is purchased, it should be from reputable sources and preferably retested while kept in quarantine after arrival.

Boundary fences should be regularly reinforced. Effective fences strengthen neighbour relationships and delay the spread of disease.

Furthermore, to have an intact fence and to know the TB and CA status on the farm should be considered a minimum prerequisite, as this will go a long way to protecting those who are dedicated farmers and invest actively in their biosecurity measures.

Practices that had nothing to report:

Beestekraal – Dr. Alwyn Venter
Fauresmith State Veterinarian
Grahamstown (Ikhala) – Drs. Baxter and Hepplestone
Muldersdrift – Drs. Speedy and Enslin
Nigel – Dr. Henry Labuschagne
Plettenberg Bay – Dr. André Reitz
Thabazimbi – Dr. Minette Nel
Underberg – Dr. Tod Collins
Vaalwater – Dr. Hampie van Staden
Vanderbijlpark – Dr. Kobus Kok
Wellington – Dr. William van Zyl

Equines:

Mpumalanga
Nothing to report

Limpopo
Nothing to report

Kwa-Zulu Natal
Ixopo
African Horse Sickness – 1 case

Eastern Cape

Port Alfred

African Horse Sickness – 1 One case in Bathurst and one case West of Kleinemonde

Northern Cape

Upington

Bont legged-tick – 3

Warts - 3

Game:

Mpumalanga

Nothing to report

Gauteng

Nothing to report

Limpopo

Thabazimbi

Wireworm – Game, especially in roan and sable

Liver tapeworm - Roans

Kwa-Zulu Natal

Pongola

Brown ear ticks - 1

Eastern Cape

Nothing to report

Northern Cape

Upington

Anaplasmosis – 1

Swine:

Gauteng

Nothing to report

Free State

Nothing to report

Eastern Cape

Nothing to report

Oudtshoorn – Report from Dr. Adriaan Olivier, SABOC (South African Ostrich Business Chamber) for May 2024

Cryptosporidiosis	3 – Many ostriches immune compromised, high metabolic demand. Due to wet weather eating soil and drinking dirty water
Energy deficiency	3 – Cold rainy weather. Ostriches can not achieve sufficient feed intake – too short feeding time
Protein deficiency	3 – Late ostrich chicks. Too high demand for nutrients for energy and survival
Diarrhoea	3 – Soil pica, severe intestinal disturbances. Drinking dirty water
Cold exposure	3 – Late chicks and growers, low feed time, high metabolic demand

Monthly report on Livestock and Wildlife isolations for May 2024 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

Vetdiagnostix microbiology
Bacteriology

Bovine Respiratory Disease yielded *Pasteurella multocida* [16 occasions], *Mannheimia haemolytica* [5], *Mycoplasma* [3] and *Trueperella pyogenes* [2].

Gangrenous myositis was caused by *Clostridium novyi* [4], *C. chauvoei* [2] and *C. septicum* [2].

Infectious Bovine Keratoconjunctivitis [IBK] was caused by *Moraxella*. Recent research has shown that there are many more *Moraxella* species than was previously known, and they should be distinguished by molecular tests. Ordinary laboratory biochemical tests are too unreliable to be able to do so accurately.

Septicaemia in cattle was caused by *Histophilus somni*, *Salmonella* Dublin [2] and *E. coli*.

Salmonella Dublin was also responsible for abortions [2]. Other abortions were caused by *Campylobacter fetus* and *T. pyogenes*.

Enteritis was caused by *S. Dublin*, *E. coli* [2] and *Clostridium perfringens* [2].

Goats showing abscesses and uterine infections yielded both *T. pyogenes* and *Corynebacterium pseudotuberculosis*. Controlling both pathogens on one farm is very difficult.

Ewes with Blue Udder yielded *Mannheimia glucosida* which is related to *M. haemolytica*. Both were previously known as *Pasteurella haemolytica*. *M. glucosida* has also been associated with Blue Udder in the same way that *M. haemolytica* causes it.

Ovine enteritis was associated with *Salmonella* Typhimurium, *Clostridium perfringens* and *E. coli* [2], one of which had virulence factors indicating that it was a virulent strain. *E. coli* was also associated with ovine septicaemia.

Septicaemia in pigs also yielded a pathogenic *E. coli* which had virulence factors showing that it was an Oedema Disease strain. *Actinobacillus pleuropneumoniae* caused pneumonia in pigs. Abscesses in pigs were caused by *T. pyogenes* [9], *Streptococcus dysgalactiae* [6] and *Staphylococcus pseudintermedius*.

Septicaemia in springbok was associated with *T. pyogenes* and the anaerobe, *Porphyromonas*.

A wound infection in a rhino initially yielded *Staphylococcus aureus*, and later an ESBL [Extended Spectrum Beta Lactamase] *E. coli* as well as *Pseudomonas aeruginosa*.

A cheetah cub with enteritis also yielded an ESBL positive *E. coli*.

Monthly report on Livestock and Wildlife isolations for May 2024 from Vetdiagnostix – Supplied by Dr. Rick Last- BVSc; M.Med.Vet (Pathology)

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services, South Africa

Livestock.

Bovine Adult Clostridium novyi malignant oedema. Evander, Limpopo.

Bovine Adult Clostridium novyi malignant oedema. J Bay, E.Cape.

Bovine Adult Toxic Hepatosis. Dundee, KZN.

Ovine Abortion. Coxiella burnetti. Graff Reinet, S Cape

Bovine calf. Nutritional myopathy with rumen indigestion and cryptosporidiosis. Gauteng.

Bovine Adult. Infectious necrotic hepatitis. Howick, KZN.

Ovine Lamb. Cryptosporidia and nutritional myopathy. Wellington, W. Cape.

Ovine yearling. Ovine pulmonary adenocarcinoma – jaagsiekte. Cradock, Mpumulanga

Monthly report on livestock and wildlife isolations for May 2024 by Department Veterinary Tropical Diseases Bacteriology Laboratory, University of Pretoria, supplied by Dr Annelize Jonker

Domestic ruminants

Trueperella pyogenes was isolated from a bovine lung sample.

Trueperella pyogenes, *Prevotella melaninogenica* and a *Veilonella* species was isolated from a bovine abscess swab.

Trueperella pyogenes, *Histophilus somni*, *Fusobacterium* species and *Veilonella* species was isolated from another bovine abscess swab.

Salmonella was isolated from an ovine lamb intestine sample.

Actinobacillus lignieresii and *Streptococcus suis* was isolated from an ovine abscess swab.

Clostridium perfringens was isolated from a caprine intestine sample.

Rhodococcus equi was isolated from a transtracheal aspirate sample from a goat.

Wild ruminants

Salmonella was isolated from joint samples from a neonatal Rhino calf.

Monthly report on Livestock and Wildlife isolations for May 2024 from Pathcare Vet Lab supplied by Dr. Liza du Plessis (Elizabet.duplessis@pathcare.co.za)

Condition	Comments and Specie
Coccidiosis	O 1
Intestinal roundworms	O 1, G 1
Wireworm	B 1
Orchitis (<i>Corynebacterium pseudotuberculosis</i>)	O 1
<i>E. coli</i>	B 1
<i>Streptococcus zooepidemicus</i>	E 1
Cryptococcus	O 3
Bacterial enteritis	O 1, B 2, P 1
Abscesses – <i>Clostridium septicum</i>	O 1
Myocarditis	B 1
Mastitis, <i>E. coli</i>	B 2
Lymphoma	O 1
Abortions	B 1, O 2
Abortions Various non-infectious – Brucellosis (B), Chlamydiosis (O)	B, O
Diarrhoea – calves, <i>E. coli</i>	B 2

University of Stellenbosch, Animal Science Department – Dr. Bennie Grobler May 2024

Condition	Specie and Numbers
Roundworms in general	O 3
Blowflies	B 1
Bladder stones	O 1

Monthly report May 2024: Dr. Annelie Cloete – Western Cape, Provincial Veterinary Laboratory, Elsenburg, Stellenbosch

Nothing to report

Monthly report May 2024: Dr. Mark Chimes -Dairy Standard Agency

Disease or condition (recorded in the garden route)	Specie and numbers
Mastittis in Tsitsikama	Bd 3
Foot and mouth disease (Humansdorp)	B 3

Monthly report May 2024: Dr Theo Kotzé – One Health Consultancy and Vet Lab

U77365845@vodamail.co.za

0827849706

No new State controlled disease or Notifiable disease to be reported during May 2024

Diverse mastitis pathogens

Thoughts on Foot and Mouth Disease control

International and Disease Management Area: protocol needed

Farm gate: Self-regulation through entrance control

Veterinary certification – 28 days quarantine

Traceability at auctions

Traceability at abattoirs

Strict quarantine control

Strategic vaccination

Strategic surveillance

Feedlot report received from Dr. Eben du Preez for May 2024

(edupreez1@telkomsa.net)

Condition	Comments and Specie
Liver fluke	B 2
Blue ticks	B 3
Brown ear-tick	B 3
Bont-legged ticks	B 3
Screw-worms	B 2
Anaplasmosis	B 3
Heartwater	B 2
Swelled head	B 1
Red gut	B 3
Botulism	B 1
<i>Histophilus somni</i>	B 2
Acute Haemorrhagic Pasteurellosis – <i>P. multocida</i> Type B	B 1
BMC	B 1
IBR	B 3
EBL	B 2
Warts	B 1
Meningitis	B 3
Energy excess	B 2
Phosphate deficiency	B 3
Calcium deficiency	B 2

Vitamin B 1 deficiency	B 2
Zinc deficiency	B 3
Selenium deficiency	B 3
Vitamin A deficiency	B 3
Joint ill	B 3
Lameness	B 3
Lungs (pneumonia)	B 3
Diarrhoea	B 3
Eye infection	B 3
Abscesses	B 3
Trauma	B 3, O 3
Pericarditis	B 3
Conditions reported by farmers	Pneumonia, clostridial diseases, ticks, bloat

Feedlot report received from Drs. Morris, Morris and Barnard, May 2024
(ksmorris@mweb.co.za)

Condition	Comments and Specie
Ticks	B 3
Liver pathology (plant associated)	B 3
Pneumonia	B 3
Salmonella	O 2
E. coli	O 2
Besnoitia	Bull in Koster, Limpopo province B 3
Cryptosporidiosis	O 2
Haemorrhagic septicaemia	O 2
African Horse Sickness	E 1

Dr. Clara Blaeser – Post mortems at Queenstown Provincial laboratory – May 2024

Area	Sample	History	Findings	Other tests/outcome
Queenstown (Hukuwa)	Ovine carcase	Weak, had been vaccinated recently with a multi clostridial vaccine	White mucous membranes, spleen small, kidneys pale, +++wire worm in abomasum	<i>Haemonchus contortus</i> induced anaemia
Gwaytu	Ovine carcase	Found dead	Foam from nose, plenty fluid in body cavities, moderate autolysis	<i>Ehrlichia ruminantium</i> on brain smear



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Section of Pathology
Department of Paraclinical Sciences
Faculty of Veterinary Science

4th July 2024
Import/Export Policy Unit Subdirectorate

Monthly report: Faculty of Veterinary Science cases
Wildlife cases sent to referring veterinarians between 2nd May and 4th July 2024

Cases from State vet Skukuza or Orpen
Cases imported with master permit (none)

RefNo	PMDate	Species	Final	Histo No
24/030	18-Mar-24	Lion	Normal reproductive tract	S662-24
24/031	18-Mar-24	Lion	Ovarian transdifferentiation	S663-24
24/032	18-Mar-24	Lion	Suspected ovarian atrophy	S664-24
24/033	02-May-24	Leopard	Subcutaneous fibrolipoma	S1091-24
24/034	02-May-24	Giraffe	Suspected sarcoïd	S1093-24
24/035	18-Mar-24	Lion	Suspected ovarian transdifferentiation	S665-24
24/036	18-Mar-24	Lion	Suspected ovarian atrophy	S666-24
24/037	26-Mar-24	Crowned Eagle	Starvation	S751-24
24/039	14-May-24	Vervet monkey	Disseminated tuberculosis	S1215-24
24/040	14-May-24	Vervet monkey	Disseminated tuberculosis	S1216-24
24/041	10-Jun-24	Lion	Fibroadnexal hamartoma	S1491-24
24/042	28-Mar-24	Lion	Presumed cytotoxic snake bite	S793-24

With kind regards,

Prof. Emily Mitchell

DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Table of Contents

<u>Internal Parasites</u>	Roundworms in general , Resistant Round Worms , Wireworm , Brown stomach-worm , Eye worm (Thelazia rhodesii) , Tape Worms , Parafilaria , Liver fluke , Conical Flukes , Cysticercosis
<u>External Parasites</u>	Blue ticks , Resistant blue Ticks , Heartwater (Bont) ticks , Brown ear-ticks , Bont-legged ticks , Red-legged ticks , Paralysis ticks , Biting lice (red lice) , Sucking lice (blue lice) , Scab mites , Mange Mites , Nuisance Flies , Blowflies , Screw-worm , Nasal bot larvae , Midges , Mosquitoes , Other , Itch mite
<u>Tick-borne Diseases</u>	African red water , Asiatic red water , Anaplasmosis , Heartwater , Sweating Sickness , Corridor disease

<u>Insect Transmittable Diseases</u>	Lumpy skin disease , Three-day-stiffsickness , Blue tongue , Nagana
<u>Venereal Diseases</u>	Actinobacillus seminis , Trichomonosis , Vibriosis
<u>Bacterial Disease (other)</u>	Q-Fever Coxiella , Blackquarter , Botulism , Pulpy Kidney , Lamb dysentery , Swelled head disease , Red gut (cattle) , Blood gut (Sheep) , Tetanus , Salmonellosis , Brucella abortus , Brucella ovis , Pseudomonas , Septicaemia , E.coli , Enzootic Abortion , Bovine Dermatophilosis (Senkobo disease) , Pasteurellosis , Other
<u>Protozoal diseases (other)</u>	Besnoitiosis , Coccidiosis , Cryptosporidiosis
<u>Fungal diseases</u>	Ringworm
<u>Viral Diseases (other)</u>	BMC (snotsiekte) , Rabies , BVD (Bovine viral diarrhoea) , IBR (Infectious bovine rhinotracheitis) , Foot-and-mouth Disease , Enzootic Bovine Leucosis (EBL) , Jaagsiekte , Orf , Warts
<u>Poisonings (Plant) and Fungal</u>	Cestrum , Cynanchum poisoning , Facial eczema , Geeldikkop/Dikoor , Lantana , Lupine Poisoning , Nenta poisoning (Krimpsiekte) , Nitrate poisoning , Prussic acid poisoning , Tulip Poisoning , Vermeersiekte (Geigeria spp.) , Mycotoxycosis , Other
<u>Poisonings</u>	Water contamination , Urea Poisoning , Snake Bite , Blue-green algae , Copper Poisoning
<u>Macro Nutritional Problems</u>	Energy deficiency , Protein deficiency , Phosphate deficiency , Calcium deficiency
<u>Micro Nutritional Problems</u>	Vitamin E deficiency , Copper deficiency , Selenium deficiency , Magnesium deficiency , Vitamin A deficiency , Vitamin B1 deficiency
<u>Multi-factorial Disease Conditions</u>	Abortions , Stillbirths , Abscesses , Bladder stones , Blindness , Bloat , Blue udder , Diarrhoea , Epididymitis , Eye Cancer , Eye infections , Joint Ill , Lameness/Foot Problems , Lung infection , Mastitis in general , Navel Ill , Trauma , Downer , Other , Wet carcasses , Yellow carcasses at abattoir
<u>Metabolic Diseases</u>	Acidosis , Displaced abomasum , Ketosis , Milk Fever , Other
<u>Reproductive diseases</u>	Endometritis , Metritis , Mismothering , Other , Poor conception , Retained afterbirth , Sheath Prolapse , Uterus prolapse , Vaginal (Cervical) prolapse , Dystocia (Difficult Births)
<u>Climatical Cause</u>	Cold exposure , Lightning , Frozen to death
<u>Non specific diseases</u>	Cause of death not established , Predators , Sabotation/Theft , Trauma , Veld fires , Other , Traumatic Reticulo-pericarditis

Internal Parasites

Roundworms in general

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	2.1 (8)	2.1 (7)	2.2 (5)	2.0 (5)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)	2.0 (1)		1.0 (1)
Dairy			2.0 (1)		
Sheep	2.0 (1)	2.1 (7)	2.3 (3)	2.5 (2)	2.3 (4)
Goat			2.0 (2)	2.0 (3)	

North West

Christiana, Christiana Dierehospitaal

Sheep: 2

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 2

Clocolan, Clocolan Dierekliniek

Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Oranjeville, Grasveld Kuddegondheid

Sheep: 2

Parys, Parys Dierehospitaal

Sheep: 3

Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 2

Warden, Warden Dierehospitaal

Sheep: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 3

Kokstad, EG Veterinary Services Kokstad

Dairy: 2, Sheep: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Underberg, Underberg Veterinary Surgery

Sheep: 2, Goat: 2

Eastern Cape

Bathurst, Dr Jane Pistorius

Goat: 2

3 verminosis

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3

Uitenhage, Uitenhage Dierehospitaal

Sheep: 2, Goat: 2

Western Cape

Caledon, Caledon Dierekliniek

Sheep: 2

Darling, Tygerberg Dierehospitaal Darling

Sheep: 2

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Resistant Round Worms ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	3.0 (1)		1.0 (1)		1.7 (3)	2.0 (1)	2.0 (2)	3.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	3.0 (1)		1.0 (1)		1.7 (3)	2.0 (1)	2.0 (1)	3.0 (1)	
Goat							2.0 (1)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3

Limpopo

Nylstroom, Dr Hercu van Niekerk

Sheep: 1

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 1

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Sheep: 2

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

George, George Animal Hospital

Sheep: 3

Wireworm



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.5 (4)	1.7 (3)		2.7 (3)	1.9 (8)	2.0 (2)	1.0 (1)	1.8 (4)	3.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)								
Sheep	2.5 (2)	1.5 (2)		2.5 (2)	1.9 (8)	2.0 (2)		1.8 (4)	3.0 (1)
Goat	3.0 (1)	2.0 (1)		3.0 (1)			1.0 (1)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3, Goat: 3

Piet Retief, Pets Vet Hospital

Sheep: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 2

Irene, Agricultural Research Council Irene

Sheep: 1

North West

Potchefstroom, Bult Dierekliniek

Sheep: 2

Zeerust, Avontuur Veterinary Services

Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Frankfort, Frankfort Dierekliniek

Sheep: 3

Harrismith, Platberg Diere Gesondheid

Sheep: 2

Koppies, Renosterrivier Dierekliniek

Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Villiers, Wilgepoort Veedienste

Sheep: 1

Warden, Warden Dierehospitaal

Sheep: 1

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Sheep: 3

Underberg, Underberg Veterinary Surgery

Sheep: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Western Cape

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Riversdale, Riversdal Dierekliniek

Sheep: 1

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Brown stomach-worm



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average								2.0 (1)	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep									2.0 (1)
Goat								2.0 (1)	

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Eye worm (*Thelazia rhodesii*) ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)								
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Mpumalanga

Volksrust, Grasslands Veterinary Services

Beef: 2

Tape Worms ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average					2.0 (4)	1.0 (1)	1.0 (1)		
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep					2.0 (4)	1.0 (1)			
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Goat							1.0 (1)		
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Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Sheep: 1

Eastern Cape

Uitenhage, Uitenhage Dierehospitaal

Goat: 1

Parafilaria									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		1.0 (1)						

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)		1.0 (1)						
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Mpumalanga

Volkstrust, Grasslands Veterinary Services

Beef: 1

Limpopo

Nylstroom, Dr Hercu van Niekerk

Beef: 1

Liver fluke									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape

Average	3.0 (1)				2.0 (13)	2.0 (5)	3.0 (1)	2.0 (3)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)				2.0 (8)	2.0 (3)			
Dairy						2.0 (1)		2.0 (3)	
Sheep					2.0 (4)	2.0 (1)	3.0 (1)		
Goat					2.0 (1)				

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Platberg Diere Gesondheid

Beef: 3, Sheep: 3

Oranjeville, Grasveld Kuddegondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 1, Sheep: 1

Villiers, Wilgepoort Veedienste

Beef: 2

Warden, Warden Dierehospitaal

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 1

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Dairy: 2, Sheep: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape

George, George Animal Hospital

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Conical Flukes

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)				2.0 (3)	2.3 (4)	1.5 (2)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)				2.0 (2)	2.3 (3)	2.0 (1)		
Dairy							1.0 (1)		
Sheep					2.0 (1)	2.0 (1)			

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3

Standerton, Standerton Dierehospitaal

Beef: 1

Free State

Frankfort, Frankfort Dierekliniek

Beef: 3

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Warden, Warden Dierehospitaal

Beef: 1

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Sheep: 2

Mooi River, Mooirivier Vet Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 1

Aliwal North, Hertzogbrug Dierekliniek

Beef: 2

Cysticercosis [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					1.5 (2)			2.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					1.5 (2)			2.0 (1)	
Dairy								2.0 (1)	

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Western Cape

George, George Animal Hospital

Beef: 2, Dairy: 2

External Parasites

Blue ticks [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	3.0 (5)	2.5 (2)	2.0 (1)	3.0 (5)	2.8 (15)	2.8 (8)	2.5 (2)	1.8 (5)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (5)	2.5 (2)	2.0 (1)	3.0 (3)	2.8 (12)	2.7 (6)	2.0 (1)	1.7 (3)	
Dairy						3.0 (2)	3.0 (1)	2.0 (2)	
Sheep				3.0 (1)	3.0 (2)				
Goat				3.0 (1)	3.0 (1)				

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3

Lydenburg, Lydenburg Dierekliniek

Beef: 3

Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

Piet Retief, Pets Vet Hospital

Beef: 3

Standerton, Standerton Dierehospitaal

Beef: 3

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 3

Limpopo

Tzaneen, ZZ2 Farm Practice

Beef: 2

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Tick explosion

Stella, Stella Dierekliniek

Beef: 3

Explosion

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Sheep: 3

Memel, Memel Veterinary Clinic

Beef: 3

Parys, Parys Dierehospitaal

Beef: 3

Senekal, Senekal Dierekliniek

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 2

Warden, Warden Dierehospitaal

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Dundee, Endumeni Herd health

Beef: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 3, Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 3

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Beef: 2

Western Cape

George, George Animal Hospital

Beef: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Resistant blue Ticks									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					2.0 (2)	1.3 (3)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					2.0 (2)	1.3 (3)			
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Free State

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Heartwater (Bont) ticks									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.3 (3)	1.3 (3)	1.0 (3)	3.0 (3)		2.0 (5)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.5 (2)	1.5 (2)	1.0 (2)	3.0 (1)		2.0 (3)			
Sheep	2.0 (1)		1.0 (1)	3.0 (1)		2.0 (1)			
Goat		1.0 (1)		3.0 (1)		2.0 (1)			

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 2

Lydenburg, Lydenburg Dierekliniek

Beef: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Hammanskraal, Themba Animal Clinic

Beef: 1, Goat: 1

Limpopo**Nylstroom, Dr Hercu van Niekerk**

Beef: 1, Sheep: 1

Tzaneen, ZZ2 Farm Practice

Beef: 1

North West**Zeerust, Avontuur Veterinary Services**

Beef: 3, Sheep: 3, Goat: 3

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Pongola, Pongola Animal Clinic

Beef: 2, Sheep: 2

Brown ear-ticks

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)			2.0 (1)	2.0 (2)			3.0 (2)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)	2.0 (1)			2.0 (1)	2.0 (2)			3.0 (1)
Sheep									3.0 (1)

Mpumalanga**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 3

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

Free State**Memel, Memel Veterinary Clinic**

Beef: 2

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 2

Northern Cape**Upington, Upington Veeartsenykliniek**

Beef: 3, Sheep: 3

Bont-legged ticks

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.5 (2)	3.0 (5)	2.6 (5)	3.0 (2)	3.0 (2)	1.0 (2)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported						
Beef	2.5 (2)	3.0 (2)	2.8 (4)	3.0 (1)	3.0 (1)	1.0 (1)
Dairy				3.0 (1)	3.0 (1)	
Sheep		3.0 (2)	2.0 (1)			1.0 (1)
Goat		3.0 (1)				

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3

Lydenburg, Lydenburg Dierekliniek

Beef: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Bultfontein, Greylingrust Diersprekkamer

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Sheep: 2

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Dairy: 3

Western Cape

Oudtshoorn, SAOBC

Beef: 1, Sheep: 1

Red-legged ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			3.0 (3)	2.5 (4)	2.6 (5)	3.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)			3.0 (2)	2.5 (4)	2.7 (3)	3.0 (1)		
Dairy						2.5 (2)			
Sheep				3.0 (1)					

Mpumalanga

Lydenburg, Lydenburg Dierekliniek

Beef: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Potchefstroom, Bult Dierekliniek

Beef: 3

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Parys, Parys Dierehospitaal

Beef: 3

Warden, Warden Dierehospitaal

Beef: 1

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Beef: 2, Dairy: 2

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape**Steynsburg, Steynsburg Dierehospitaal**

Beef: 3

Paralysis ticks

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (1)				1.0 (1)				2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	2.0 (1)				1.0 (1)				2.0 (1)
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Mpumalanga**Lydenburg, Longtom Dierekliniek**

Sheep: 2

Free State**Reitz, Riemland Dierehospitaal**

Sheep: 1

Northern Cape**De Aar, De Aar Veterinary Clinic**

Sheep: 2

Biting lice (red lice)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (1)				2.7 (3)	2.0 (2)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)					2.0 (1)			
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Sheep	2.5 (2)	2.0 (1)
Goat	3.0 (1)	

Mpumalanga

Volksrust, Grasslands Veterinary Services

Beef: 1

Free State

Harrismith, Platberg Diere Gesondheid

Sheep: 3

Smithfield, Freestate Smithfield SV

Goat: 3

Lice and mange

Villiers, Wilgepoort Veedienste

Sheep: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Sheep: 2

Sucking lice (blue lice)

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			2.0 (1)	3.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)
Goat	2.0 (1) 3.0 (1)

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 2

Western Cape

Oudtshoorn, SAOBC

Goat: 2

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Goat: 3

Scab mites

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (2)		1.0 (1)		2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	3.0 (2)	1.0 (1)	2.0 (1)
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Free State

Harrismith, Platberg Diere Gesondheid

Sheep: 3

Smithfield, Freestate Smithfield SV

Sheep: 3

Two farms, 2634 sheep treated

Eastern Cape

Aliwal North, Hertzogbrug Dierekliniek

Sheep: 1

Northern Cape

Kimberley, Staatsveeartse Groep NC

Sheep: 2

Vosburg, Springbok

Mange Mites

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			1.0 (1)	3.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)			1.0 (1)					
Goat					3.0 (1)				

Mpumalanga

Standerton, Standerton Dierehospitaal

Beef: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 1

Sarcoptes mites

Free State

Smithfield, Freestate Smithfield SV

Goat: 3

Lice and mange

Nuisance Flies

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (3)	2.5 (6)	2.2 (5)	2.0 (1)	2.3 (3)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				3.0 (1)	2.3 (3)	2.3 (3)		1.0 (1)	
Dairy					3.0 (1)		2.0 (1)	3.0 (2)	
Sheep				3.0 (1)	2.5 (2)	2.0 (2)			
Goat				3.0 (1)					

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Warden, Warden Dierehospitaal

Beef: 1

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Sheep: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Sheep: 2

Eastern Cape**Alexandria, Alexandria Platteland Dierespreekkamer**

Dairy: 2

Western Cape**George, George Animal Hospital**

Dairy: 3

Malmesbury, Dr OC Kriek Services

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Blowflies

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (1)		3.0 (3)		2.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	1.0 (1)		3.0 (1)					
Sheep	2.0 (1)			3.0 (1)		2.0 (1)			
Goat				3.0 (1)					

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

North West**Zeerust, Avontuur Veterinary Services**

Beef: 3, Sheep: 3, Goat: 3

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Sheep: 2

Screw-worm

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy							2.0 (1)		
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Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 2

Nasal bot larvae

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.0 (1)			2.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	3.0 (1)	1.0 (1)			2.0 (1)				
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Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 1

Free State

Villiers, Wilgepoort Veedienste

Sheep: 2

Midges

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)			2.0 (1)	2.8 (4)	2.6 (5)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)			2.0 (1)	2.7 (3)	2.7 (3)			
Dairy						3.0 (1)			
Sheep	3.0 (1)				3.0 (1)	2.0 (1)			

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

North West

Potchefstroom, Bult Dierekliniek

Beef: 2

Free State

Bultfontein, Greylingrust Dierspreekkamer

Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Sheep: 2

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Mosquitoes

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					1.0 (1)	3.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					1.0 (1)	3.0 (1)			
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Free State

Bultfontein, Greylingrust Dierspreekkamer

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Other

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age						1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						1.0 (1)			
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Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 1

Tsetse flies

Itch mite

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average 3.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep 3.0 (1)

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 3

Tick-borne Diseases

African red water

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)		1.0 (1)	1.0 (1)	2.2 (9)	2.4 (10)	1.0 (1)	1.8 (6)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (3)		1.0 (1)	1.0 (1)	2.2 (9)	2.3 (7)	1.0 (1)	1.5 (4)	
Dairy						2.7 (3)		2.5 (2)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Brits, Zodiac Dierekliniek

Beef: 1

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Harrismith, Platberg Diere Gesondheid

Beef: 2

Koppies, Renosterrivier Dierekliniek

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Villiers, Wilgepoort Veedienste

Beef: 3

Vrede, PDR Repro

Beef: 2

Warden, Warden Dierehospitaal

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Camperdown, Camperdown Vet Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Dairy: 2

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Dairy: 3

Red water was a major contributor of deaths in dairy heifers and cows on numerous farms. Beef cattle not infected

Eastern Cape

Queenstown, Queenstown Veterinary Clinic

Beef: 1

Western Cape

Caledon, Caledon Dierekliniek

Beef: 2

George, George Animal Hospital

Beef: 2, Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Riversdale, Riversdal Dierekliniek

Beef: 1

Asiatic red water

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.2 (5)	2.0 (1)	1.0 (1)		2.3 (12)	3.0 (7)	2.3 (3)	1.7 (6)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.2 (5)	2.0 (1)	1.0 (1)		2.3 (12)	3.0 (4)	2.5 (2)	1.5 (4)	
Dairy						3.0 (3)	2.0 (1)	2.0 (2)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3

Lydenburg, Lydenburg Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Volksrust, Grasslands Veterinary Services

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2

Limpopo**Tzaneen, ZZ2 Farm Practice**

Beef: 1

Free State**Frankfort, Frankfort Dierekliniek**

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Harrismith, Platberg Diere Gesondheid

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Oranjeville, Grasveld Kuddegondheid

Beef: 2

Parys, Parys Dierehospitaal

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 1

Senekal, Senekal Dierekliniek

Beef: 1

Villiers, Wilgepoort Veedienste

Beef: 3

Vrede, PDR Repro

Beef: 3

Vrede, Vrede Dierehospitaal

Beef: 2

Warden, Warden Dierehospitaal

Beef: 2

Kwazulu-Natal**Dundee, Endumeni Herd health**

Beef: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 3, Dairy: 3

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Underberg, Underberg Veterinary Surgery

Beef: 3, Dairy: 3

Red water was a major contributor of deaths in dairy heifers and cows on numerous farms. Beef cattle not infected

Eastern Cape**Alexandria, Riverview Trading Vet Consulting Services**

Beef: 2, Dairy: 2

Stutterheim, Stutterheim Veterinary Clinic

Beef: 3

Outbreak in heavy pregnant heifers. Three died after calving, dead calves. Blocked rest of herd with imidocarb.

Western Cape**Caledon, Caledon Dierekliniek**

Beef: 1

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Riversdale, Riversdal Dierekliniek

Beef: 2, Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

Anaplasmosis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.5 (2)		2.0 (2)	1.9 (18)	2.1 (10)	1.0 (1)	1.7 (7)	1.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	1.7 (3)	1.5 (2)		2.0 (2)	1.9 (18)	2.1 (7)		1.0 (2)	1.0 (1)
Dairy						2.0 (3)	1.0 (1)	2.0 (5)	
Mpumalanga									
Grootvlei, Grootvlei Dierekliniek									
Beef: 2									
Lydenburg, Longtom Dierekliniek									
Beef: 2									
Standerton, Standerton Dierehospitaal									
Beef: 1									
Gauteng									
Bronkhorstspuit, Kerkstraat Dierekliniek									
Beef: 2									
Pretoria, Onderstepoort AH and PAC									
Beef: 1									
North West									
Christiana, Christiana Dierehospitaal									
Beef: 3									
Vryburg, Molopo Dierekliniek									
Beef: 1									
Free State									
Bloemfontein, Dr Stephan Wessels (BVSc)									
Beef: 2									
Bothaville, Valsrivier Vet									
Beef: 2									
Bultfontein, Greylingrust Dieresprekkamer									
Beef: 2									
Clocolan, Clocolan Dierekliniek									
Beef: 2									
Ficksburg, Oosvrystaat Dier Produkte									
Beef: 2									
Frankfort, Frankfort Dierekliniek									
Beef: 3									
Harrismith, Platberg Dier Gesondheid									
Beef: 2									
Hoopstad, Hoopstad Dierekliniek									
Beef: 2									
Hoopstad, Kameeldoring Dierekliniek									
Beef: 2									
Koppies, Renosterrivier Dierekliniek									
Beef: 2									
Kroonstad, Kroonstad Dierehospitaal									
Beef: 2									
Oranjeville, Grasveld Kuddegondheid									
Beef: 2									

Parys, Parys Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 2

Villiers, Wilgepoort Veedienste

Beef: 2

Warden, Warden Dierehospitaal

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Dundee, Endumeni Herd health

Beef: 2

Ixopo, Howick Vet Clinic Ixopo

Beef: 2, Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Dairy: 2

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape**Alexandria, Alexandria Platteland Dieresprekkamer**

Dairy: 1

Western Cape**Darling, Tygerberg Dierehospitaal Darling**

Beef: 1

George, George Animal Hospital

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Dr OC Kriek Services

Dairy: 1

Riversdale, Riversdal Dierekliniek

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

Northern Cape**Colesberg, Karoo Veterinary Hospital**

Beef: 1

Heartwater

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (3)	2.0 (3)	1.8 (5)	2.5 (6)		1.4 (5)	1.8 (4)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	2.0 (1)	2.0 (2)	2.5 (2)		1.5 (2)	2.0 (1)	
Dairy							3.0 (1)	
Sheep	2.0 (1)		1.5 (2)	2.5 (2)		1.0 (1)	1.0 (1)	
Goat	2.0 (1)	2.0 (2)	2.0 (1)	2.5 (2)		1.5 (2)	1.0 (1)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2

Pretoria, Onderstepoort AH and PAC

Goat: 2

Limpopo

Nylstroom, Dr Hercu van Niekerk

Sheep: 1

Polokwane, Pietersburg Veterinary Clinic

Beef: 2, Sheep: 2, Goat: 2

Tzaneen, ZZ2 Farm Practice

Beef: 2

North West

Brits, Brits Dierekliniek

Sheep: 2, Goat: 2

Brits, Zodiac Dierekliniek

Beef: 2

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Beef: 2, Dairy: 3

Bathurst, Dr Jane Pistorius

Goat: 1

Uitenhage, Uitenhage Dierhospitaal

Sheep: 1

Sweating Sickness

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				1.0 (1)					

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				1.0 (1)					
North West									

Christiana, Christiana Dierehospitaal

Beef: 1

Corridor disease									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age						1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)
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Kwazulu-Natal**Pongola, Pongola Animal Clinic**

Beef: 1

Insect Transmittable Diseases

Lumpy skin disease									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				2.0 (1)	2.0 (2)	1.5 (4)			3.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	2.0 (2)	1.7 (3)	3.0 (1)
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Dairy	1.0 (1)
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North West**Brits, Brits Dierekliniek**

Beef: 2

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 2

Smithfield, Freestate Smithfield SV

Beef: 2

4 cases

Kwazulu-Natal**Camperdown, Camperdown Vet Clinic**

Beef: 2

Ixopo, Howick Vet Clinic Ixopo

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Underberg, Underberg Veterinary Surgery

Beef: 1

Northern Cape**Upington, Upington Veeartsenykliniek**

Beef: 3

Three-day-stiffsickness

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		2.0 (1)			2.2 (5)	1.3 (4)			1.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)			2.2 (5)	1.3 (4)			1.0 (1)
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 1

Northern Cape

Upington, Upington Veeartsenykliniek

Beef: 1

Blue tongue



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				3.0 (1)	2.0 (4)	2.8 (4)		2.0 (1)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						3.0 (1)			
Sheep				3.0 (1)	2.0 (4)	2.5 (2)		2.0 (1)	2.0 (1)
Goat						3.0 (1)			

North West

Christiana, Christiana Dierehospitaal

Sheep: 3

Free State

Bultfontein, Greylingrust Dierspreekkamer

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Sheep: 2

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3, Goat: 3

Western Cape**Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 2

Not confirmed

Northern Cape**De Aar, De Aar Veterinary Clinic**

Sheep: 2

Nagana

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Aver- age						2.5 (2)			
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						2.5 (2)			
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Kwazulu-Natal**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 2

Venereal Diseases***Actinobacillus seminis***

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Aver- age					2.0 (1)				
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					2.0 (1)				
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Free State**Warden, Warden Dierehospitaal**

Beef: 2

Trichomonosis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.8 (4)			3.0 (2)	1.8 (15)	2.3 (3)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.8 (4)			3.0 (2)	1.8 (15)	2.3 (3)			
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Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 1

Volksrust, Grasslands Veterinary Services

Beef: 2

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Infection from adjacent farm

Vryburg, Molopo Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

One bull positive in Bultfontein area - new farm

Bothaville, Bothaville Dierekliniek

Beef: 1

One herd positive

Bothaville, Valsrivier Vet

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 1

Koppies, Renosterrivier Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Memel, Memel Veterinary Clinic

Beef: 2

Oranjeville, Grasveld Kuddegeseondheid

Beef: 2

Parys, Parys Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Villiers, Wilgepoort Veedienste

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 2

Warden, Warden Dierehospitaal

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 3

Three new farms

Vibriosis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)			2.5 (2)	1.6 (7)	1.0 (3)	1.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (2)			2.5 (2)	1.6 (7)	1.0 (2)	1.0 (1)		
Dairy						1.0 (1)			

Mpumalanga

Lydenburg, Longtom Dierkliniek

Beef: 2

Volksrust, Grasslands Veterinary Services

Beef: 1

North West

Leeudoringstad, Leeudoringstad Dierkliniek

Beef: 3

Infection from adjacent farm

Vryburg, Molopo Dierkliniek

Beef: 2

Free State

Clocolan, Clocolan Dierkliniek

Beef: 1

Harrismith, Platberg Diere Gesondheid

Beef: 1

Koppies, Renosterrivier Dierkliniek

Beef: 1

Kroonstad, Kroonstad Dierhospitaal

Beef: 2

Oranjeville, Grasveld Kuddegondheid

Beef: 2

Viljoenskroon, Viljoenskroon Dierkliniek

Beef: 2

Warden, Warden Dierhospitaal

Beef: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Mooi River, Mooirivier Vet Clinic

Dairy: 1

Underberg, Underberg Veterinary Surgery

Beef: 1

Eastern Cape

Queenstown, Queenstown Veterinary Clinic

Beef: 1

Bacterial Disease (other)

Q-Fever (*Coxiella*)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy

2.0 (1)

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Dairy: 2

Coxiella burnetti isolated on aborted foetus tissues

Blackquarter

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	3.0 (1)		2.0 (2)	1.6 (11)	2.0 (3)		2.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef

1.4 (5)

3.0 (1)

2.0 (2)

1.6 (11)

2.0 (3)

Dairy

2.0 (2)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dierekliniek

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 1

Standerton, Standerton Dierehospitaal

Beef: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Potchefstroom, Bult Dierekliniek

Beef: 1

Free State

Clocolan, Clocolan Dierekliniek

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Clostridial strain not identified

Harrismith, Platberg Diere Gesondheid

Beef: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 2

Koppies, Renosterrivier Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Parys, Parys Dierehospitaal

Beef: 1

Smithfield, Freestate Smithfield SV

Beef: 2

Six animals died

Vrede, Vrede Dierehospitaal

Beef: 2

Warden, Warden Dierehospitaal

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2

Black quarter in animals where the second vaccine was not administered

Western Cape

Riversdale, Riversdal Dierekliniek

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Clostridium chauvoei, C. sordelli, C. septicum

Botulism

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Aver- age	1.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)
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Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 1

Pulpy Kidney

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (2)	3.0 (1)		2.0 (1)	2.0 (6)	1.0 (1)	2.0 (2)		2.5 (2)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	2.0 (2)			2.0 (1)	2.0 (6)	1.0 (1)	3.0 (1)		2.5 (2)
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Goat		3.0 (1)					1.0 (1)		
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Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2

Piet Retief, Pets Vet Hospital

Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Goat: 3

North West

Brits, Brits Dierekliniek

Sheep: 2

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 1

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 2

Smithfield, Freestate Smithfield SV

Sheep: 3

Chronic pulpy kidney (FSE), 10 lambs died

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Sheep: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Kathu, Kathu Dierekliniek

Sheep: 2

Lamb dysentery



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep 1.0 (1)

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 1

Swelled head disease

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (1)			3.0 (1)	2.0 (1)	1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1) 3.0 (1) 2.0 (1)

Sheep 1.0 (1)

Mpumalanga

Grootvlei, Grootvlei Direkliniek

Beef: 1

North West

Stella, Stella Direkliniek

Beef: 3

Ten calves, 8 months old, died. *Clostridium novyi* infection, animals not vaccinated.

Free State

Reitz, Riemland Dierehospitaal

Beef: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Sheep: 1

Red gut (cattle)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (1)					1.0 (2)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1) 1.0 (2)

Mpumalanga

Grootvlei, Grootvlei Direkliniek

Beef: 1

Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 1

Blood gut (Sheep)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (4)	1.0 (1)			3.0 (3)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	2.0 (1)				2.0 (4)	1.0 (1)			3.0 (1)
Goat									3.0 (2)

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 1

Harrismith, Platberg Diere Gesondheid

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Vrede, PDR Repro

Sheep: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Sheep: 1

Northern Cape

Colesberg, Karoo Veterinary Hospital

Goat: 3

Upington, Upington Veeartsenykliniek

Sheep: 3, Goat: 3

Tetanus



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)			1.0 (1)		1.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep		1.0 (1)			1.0 (1)		1.0 (1)		
Goat		2.0 (1)							

Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1, Goat: 2

Free State

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1

Salmonellosis ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (1)					2.0 (2)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)					3.0 (1)			
Dairy						1.0 (1)			

Mpumalanga

Volksrust, Grasslands Veterinary Services

Beef: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Salmonella becoming an issue in beef calves on stud farms

Brucella abortus ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)		2.0 (1)	2.0 (1)	2.4 (10)	1.0 (2)	2.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)		2.0 (1)		2.4 (10)	1.0 (2)			
Dairy				2.0 (1)			2.0 (1)		

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 2

North West

Brits, Brits Dierekliniek

Dairy: 2

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

One cow positive in Jagersfontein after testing herd

Bothaville, Bothaville Dierekliniek

Beef: 3

Five herds positive, one owner

Harrismith, Harrismith Dierehospitaal

Beef: 3

Koppies, Renosterrivier Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Parys, Parys Dierehospitaal

Beef: 3

Smithfield, Freestate Smithfield SV

Beef: 3

Brucella outbreak 4 cases. On 3 quarantined farms the following positive cases were found on repeated testing 5, 3 and 7 cases.

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Ixopo, Howick Vet Clinic Ixopo

Beef: 1

New farm, routine bulls tested. Picked up one bull with a titre of 784. Have bled the herd as of last week. Awaiting test results. This farm is in the middle of 5 other farms. In the middle of a dairy district.

Kokstad, EG Veterinary Services Kokstad

Beef: 1

One herd in Mzongwana rural location tested positive

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 2

<i>Brucella ovis</i>									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu- Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					3.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	3.0 (1)
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Free State

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

<i>Pseudomonas</i>									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu- Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age						1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)
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Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 1

Pseudomonolysis (hangkop)

Septicaemia ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (2)			3.0 (3)	1.0 (2)	1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)			3.0 (1)	1.0 (1)	1.0 (1)			
Sheep	1.0 (1)			3.0 (1)	1.0 (1)				
Goat				3.0 (1)					

Mpumalanga

Lydenburg, Longtom Dierkliniek

Beef: 1, Sheep: 1

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Viljoenskroon, Viljoenskroon Dierkliniek

Beef: 1, Sheep: 1

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 1

E. coli ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age			1.0 (1)		2.3 (3)	3.0 (1)		1.5 (2)	2.0 (2)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					1.0 (1)	3.0 (1)			
Dairy								1.0 (1)	
Sheep			1.0 (1)		3.0 (2)			2.0 (1)	2.0 (2)

Limpopo

Nylstroom, Dr Hercu van Niekerk

Sheep: 1

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

Harrismith, Platberg Diere Gesondheid

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 3

E. coli septicaemia

Upington, Upington Veeartsenykliniek

Sheep: 1

Enzootic Abortion

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)		2.0 (2)		2.0 (4)		3.0 (1)	2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					2.0 (2)				
Dairy							3.0 (1)		
Sheep	2.0 (1)		2.0 (1)		2.0 (2)			2.0 (1)	
Goat	2.0 (1)		2.0 (1)						

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2, Goat: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Sheep: 2, Goat: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Warden, Warden Dierehospitaal

Beef: 2

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Dairy: 3

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Bovine Dermatophilosis (Senkobo disease)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age						1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1)

Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 1

Legs up tofetlock (could dew on grass play a role)

Pasteurellosis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)	2.0 (2)	1.5 (4)	1.0 (2)	1.9 (7)	2.0 (3)	2.0 (1)	2.5 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	2.0 (1)	1.0 (1)		2.0 (4)	2.0 (2)			
Dairy						2.0 (1)			
Sheep	2.0 (1)	2.0 (1)	2.0 (2)	1.0 (2)	1.7 (3)			2.5 (2)	
Goat			1.0 (1)				2.0 (1)		

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 2

Limpopo

Nylstroom, Dr Hercu van Niekerk

Sheep: 3

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1, Goat: 1

North West

Potchefstroom, Bult Dierekliniek

Sheep: 1

Rustenburg, Bergbos Dierekliniek

Sheep: 1

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 2, Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 1

Senekal, Senekal Dierekliniek

Sheep: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 2

Mooi River, Mooirivier Vet Clinic

Beef: 2, Dairy: 2

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Western Cape**George, George Animal Hospital**

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Other

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age								2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy

2.0 (1)

Western Cape**Swellendam, Swellendam Dierehospitaal**

Dairy: 2

Four cattle died of Actinomycosis (lumpy jaw)

Protozoal diseases (other)**Besnoitiosis**

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age			2.0 (1)	2.0 (1)					

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef

2.0 (1) 2.0 (1)

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

North West**Brits, Brits Dierekliniek**

Beef: 2

Coccidiosis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)	1.5 (2)			1.7 (3)	2.3 (4)	2.0 (4)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)			2.5 (2)	
Dairy	2.0 (1)					
Sheep			1.7 (3)	2.0 (2)	2.0 (1)	
Goat	2.0 (1)	1.0 (1)			2.0 (3)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Dairy: 2, Goat: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Pretoria, Onderstepoort AH and PAC

Goat: 1

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Sheep: 1

Harrismith, Platberg Diere Gesondheid

Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Sheep: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Eastern Cape

Bathurst, Dr Jane Pistorius

Goat: 3

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2

Cryptosporidiosis

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)		1.0 (1)	2.4 (12)	2.0 (3)		1.8 (9)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)	2.0 (1)			2.0 (2)	2.0 (1)		1.0 (2)	
Dairy				1.0 (1)		3.0 (1)		2.0 (3)	
Sheep					2.5 (10)	1.0 (1)		2.0 (4)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

North West**Zeerust, Avontuur Veterinary Services**

Dairy: 1

Free State**Bultfontein, Greylingrust Dierspreekkamer**

Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 2

Harrismith, Platberg Diere Gesondheid

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

2 different sheep herds

Koppies, Renosterrivier Dierekliniek

Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Parys, Parys Dierehospitaal

Beef: 3, Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Warden, Warden Dierehospitaal

Beef: 1, Sheep: 1

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Dundee, Endumeni Herd health

Sheep: 1

Estcourt, Estcourt Vet Clinic

Dairy: 3

Dairy calves

Western Cape**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2, Sheep: 1

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 3

Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 1, Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Calves

Sheep: 3

Fungal diseases**Ringworm**

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (1)	2.0 (2)	1.0 (1)	2.5 (2)	1.7 (3)	3.0 (1)	3.0 (1)		3.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	2.0 (2)	1.0 (1)	2.5 (2)	1.7 (3)	3.0 (1)	3.0 (1)		3.0 (1)
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Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 2

Zeerust, Avontuur Veterinary Services

Beef: 3

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Beef: 3

Northern Cape

Upington, Upington Veeartsenykliniek

Beef: 3

Viral Diseases (other)

BMC (snotsiekte)

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.3 (3)	2.0 (3)			1.0 (1)	1.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				1.3 (3)	2.0 (3)			1.0 (1)	1.0 (1)
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North West

Brits, Zodiac Dierekliniek

Beef: 1

Christiana, Christiana Dierehospitaal

Beef: 1

Rustenburg, Bergbos Dierekliniek

Beef: 2

Free State**Hoopstad, Hoopstad Dierekliniek**

Beef: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 2

Smithfield, Freestate Smithfield SV

Beef: 2

One animal died and one euthanized

Western Cape**Heidelberg (WC), Heidelberg Dierekliniek**

Beef: 1

Northern Cape**Postmasburg, Postmasburg Dierekliniek**

Beef: 1

Rabies

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age			2.0 (1)		1.0 (2)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef			2.0 (1)		1.0 (1)				
Sheep					1.0 (1)				

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

Free State**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 1

Vrede, PDR Repro

Sheep: 1

BVD (Bovine viral diarrhoea)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (1)		1.0 (1)			1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)		1.0 (1)			1.0 (1)			
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Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Beef: 1

IBR (Infectious bovine rhinotracheitis)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					1.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1)

Free State

Warden, Warden Dierehospitaal

Beef: 1

Foot-and-mouth Disease

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age							3.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 3.0 (1)

Eastern Cape

Adelaide, Adelaide Veterinary Clinic

Beef: 3

Outbreak of foot and mouth disease in a feedlot near East London has serious consequences. Source of animals in feedlot are the problem as they were bought from various sources.

Enzootic Bovine Leucosis (EBL)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age						1.0 (2)	1.0 (1)	3.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy 1.0 (2) 1.0 (1) 3.0 (1)

Kwazulu-Natal

Ixopo, Howick Vet Clinic Ixopo

Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Eastern Cape

Alexandria, Alexandria Platteland Dierespreekkamer

Dairy: 1

Western Cape**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 3

Jaagsiekte

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				1.0 (1)	1.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep

1.0 (1) 1.0 (1)

North West**Brits, Brits Dierekliniek**

Sheep: 1

Free State**Hoopstad, Kameeldoring Dierekliniek**

Sheep: 1

Orf

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	3.0 (1)			2.5 (2)	1.8 (4)	2.0 (2)	1.0 (1)	1.7 (3)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep

3.0 (1)

3.0 (1)

1.8 (4)

2.0 (2)

2.0 (2)

Goat

2.0 (1)

1.0 (1)

1.0 (1)

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Sheep: 3

North West**Brits, Brits Dierekliniek**

Goat: 2

Christiana, Christiana Dierehospitaal

Sheep: 3

Free State**Clocolan, Clocolan Dierekliniek**

Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Villiers, Wilgepoort Veedienste

Sheep: 2

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Sheep: 2

Underberg, Underberg Veterinary Surgery

Sheep: 2

Eastern Cape**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 1

Western Cape**George, George Animal Hospital**

Sheep: 3

Oudtshoorn, SAOBC

Goat: 1

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

Warts

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.7 (3)	1.0 (2)		2.8 (4)	1.0 (2)	2.0 (1)		2.0 (2)	3.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.7 (3)	1.0 (2)		2.7 (3)	1.0 (2)	2.0 (1)		2.0 (2)	3.0 (1)
Sheep				3.0 (1)					

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2

Lydenburg, Lydenburg Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 1

Gauteng**Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 1

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

North West**Brits, Brits Dierekliniek**

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3

Free State**Harrismith, Platberg Diere Gesondheid**

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Beef: 2

Western Cape**George, George Animal Hospital**

Beef: 3

Oudtshoorn, SAOBC

Beef: 1

Northern Cape**Upington, Upington Veeartsenykliniek**

Beef: 3

Poisonings (Plant) and Fungal***Cestrum* (Ink berry)**

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		2.0 (1)	1.8 (6)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)		2.0 (1)	2.0 (5)				
Sheep					1.0 (1)				

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

North West**Rustenburg, Bergbos Dierekliniek**

Beef: 2

Free State**Bloemfontein, Dr Stephan Wessels (BVSc)**

Beef: 1

Clocolan, Clocolan Dierekliniek

Beef: 2

Ficksburg, Oosvrystaat Dier Produkte

Beef: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

***Cynanchum* poisoning**

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy								1.0 (1)	
Sheep								1.0 (1)	

Western Cape**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 1, Sheep: 1

Facial eczema ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep								1.0 (1)	
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Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Geeldikkop/Dikoor ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)					

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep				1.0 (1)					
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North West

Potchefstroom, Bult Dierekliniek

Sheep: 1

Lantana ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						2.5 (2)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						2.5 (2)			
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Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 3

Lupine Poisoning ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)
Sheep	2.5 (2)

Free State

Frankfort, Frankfort Dierekliniek

Sheep: 3

Soya toxicity

Vrede, PDR Repro

Beef: 1, Sheep: 2

Soya`s, overeating

Nenta poisoning (Krimpsiekte)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Goat	2.0 (1)
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Western Cape

George, George Animal Hospital

Goat: 2

Nitrate poisoning

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	1.7 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)
Sheep	1.0 (1)

Free State

Hoopstad, Kameeldoring Dierekliniek

Sheep: 1

Vrede, Vrede Dierehospitaal

Beef: 2

Warden, Warden Dierehospitaal

Beef: 2

Prussic acid poisoning

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	1.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	1.0 (1)
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Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Tulip Poisoning

PROV-INCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)				2.0 (1)	1.0 (1)		1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.3 (3)				2.0 (1)	1.0 (1)			
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Dairy								1.0 (1)	
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Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3

Volksrust, Grasslands Veterinary Services

Beef: 2

Free State

Villiers, Wilgepoort Veedienste

Beef: 2

Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 1

Vermeersiekte (*Geigeria* spp.)

PROV-INCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)		2.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep				1.0 (1)		2.0 (1)			
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North West

Potchefstroom, Bult Dierekliniek

Sheep: 1

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Sheep: 2

Mycotoxins

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu- Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)		2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						3.0 (1)			
Dairy								2.0 (1)	

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Trichthecenes and various moulds found in various silage samples---it is an ongoing issue. Resorbing foetuses at around 35 gestation – Moulds ????

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 2

Other

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu- Na- tal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Goat							1.0 (1)		
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Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Suspected *Malva parviflora* (kiesieblaar)

Poisonings

Water contamination

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu- Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy						1.0 (1)			
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Kwazulu-Natal

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Urea Poisoning									
PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					1.0 (1)				
Free State									
Bloemfontein, Dr Stephan Wessels (BVSc)									
Beef: 1									
Snake Bite									
PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.5 (4)		1.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef				2.0 (2)					
Dairy						1.0 (1)			
Sheep				3.0 (1)					
Goat				3.0 (1)					
North West									
Brits, Brits Dierekliniek									
Beef: 1									
Zeerust, Avontuur Veterinary Services									
Beef: 3, Sheep: 3, Goat: 3									
Kwazulu-Natal									
Ixopo, Howick Vet Clinic Ixopo									
Dairy: 1									
Blue-green algae									
PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					3.0 (1)				
Sheep					2.0 (1)				
Free State									
Oranjeville, Grasveld Kuddegeseondheid									
Beef: 3, Sheep: 2									

Copper Poisoning									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep					1.0 (1)				
Goat					1.0 (1)				
Free State									
Koppies, Renosterrivier Dierekliniek									
Sheep: 1, Goat: 1									
Macro Nutritional Problems									
Energy deficiency									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.8 (4)	1.8 (6)	3.0 (1)			2.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.0 (1)			3.0 (1)	2.0 (3)	3.0 (1)			2.0 (1)
Sheep				3.0 (1)	1.7 (3)				
Goat				2.5 (2)					
Mpumalanga									
Standerton, Standerton Dierehospitaal									
Beef: 2									
North West									
Brits, Zodiac Dierekliniek									
Goat: 2									
Zeerust, Avontuur Veterinary Services									
Beef: 3, Sheep: 3, Goat: 3									
Free State									
Clocolan, Clocolan Dierekliniek									
Beef: 2, Sheep: 2									
Parys, Parys Dierehospitaal									
Beef: 3									
Villiers, Wilgepoort Veedienste									
Sheep: 2									
Warden, Warden Dierehospitaal									
Beef: 1									
Wesselsbron, Wesselsbron Dierekliniek									
Sheep: 1									
Kwazulu-Natal									
Underberg, Underberg Veterinary Surgery									
Beef: 3									
Northern Cape									

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Protein deficiency ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)	1.3 (4)		3.0 (3)	2.0 (4)	2.0 (1)	2.0 (1)		

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)	2.0 (1)		3.0 (1)	2.0 (3)	2.0 (1)			
Dairy							2.0 (1)		
Sheep	3.0 (1)	1.0 (1)		3.0 (1)	2.0 (1)				
Goat		1.0 (2)		3.0 (1)					

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 1, Goat: 1

Pretoria, Onderstepoort AH and PAC

Goat: 1

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

Poor condition

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Parys, Parys Dierhospitaal

Beef: 3

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Alexandria, Alexandria Platteland Dierespreekkamer

Dairy: 2

Phosphate deficiency ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average								1.5 (2)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)	2.0 (1)
Sheep		1.0 (1)	

Western Cape

Oudtshoorn, SAOBC

Beef: 2, Sheep: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Calcium deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				3.0 (3)	1.0 (1)	3.0 (2)	1.0 (1)	1.5 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				3.0 (1)		3.0 (1)	1.0 (1)		
Dairy						3.0 (1)		1.0 (1)	
Sheep				3.0 (1)	1.0 (1)			2.0 (1)	
Goat				3.0 (1)					

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Ixopo, Howick Vet Clinic Ixopo

Dairy: 3

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Micro Nutritional Problems

Vitamin E deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	1.0 (2)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	1.0 (1)
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Goat	1.0 (1)
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Gauteng

Hammanskraal, Themba Animal Clinic

Sheep: 1, Goat: 1

Copper deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)		1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						3.0 (1)			
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Goat								1.0 (1)	
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Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Goat: 1

Selenium deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.0 (1)	1.0 (1)	2.7 (3)	2.0 (1)	2.0 (3)		1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)		1.0 (1)	3.0 (1)	2.0 (1)	2.0 (2)		1.0 (1)	
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Dairy						2.0 (1)			
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Sheep				3.0 (1)					
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Goat		1.0 (1)		2.0 (1)					
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Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic

Goat: 1

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

North West**Brits, Zodiac Dierekliniëk**

Goat: 2

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3

Free State**Harrismith, Platberg Diere Gesondheid**

Beef: 2

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Beef: 1

Mooi River, Mooirivier Vet Clinic

Dairy: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape**Oudtshoorn, SAOBC**

Beef: 1

Magnesium deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				2.7 (3)				1.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				3.0 (1)				1.0 (1)	
Dairy								1.0 (1)	
Sheep				3.0 (1)					
Goat				2.0 (1)					

North West**Brits, Zodiac Dierekliniëk**

Goat: 2

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3

Western Cape**Heidelberg (WC), Heidelberg Dierekliniëk**

Dairy: 1

Oudtshoorn, SAOBC

Beef: 1

Vitamin A deficiency

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age			1.0 (1)	3.0 (2)	3.0 (1)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)	3.0 (1)	3.0 (1)
Sheep		3.0 (1)	

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Free State

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Vitamin B1 deficiency ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					2.0 (1)			2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep					2.0 (1)			2.0 (1)	
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Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Western Cape

Vredenburg, Vredenburg Dierehospitaal

Sheep: 2

Multi-factorial Disease Conditions

Abortions ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (5)			2.8 (6)	2.1 (8)	2.2 (6)	2.0 (2)	1.8 (6)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (3)			2.7 (3)	2.0 (3)	2.3 (4)			
Dairy						2.0 (2)	2.0 (1)	2.0 (5)	
Sheep	2.0 (1)			3.0 (2)	2.0 (4)		2.0 (1)	1.0 (1)	
Goat	2.0 (1)			3.0 (1)	3.0 (1)				2.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Standerton, Standerton Dierehospitaal

Beef: 2

North West

Brits, Zodiac Dierekliniek

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 2, Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3, Goat: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

Villiers, Wilgepoort Veedienste

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 2, Dairy: 2

Mooi River, Mooirivier Vet Clinic

Beef: 2, Dairy: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr OC Kriek Services

Dairy: 3

Riversdale, Riversdal Dierekliniek

Dairy: 1, Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Goat: 2

Stillbirths										^
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape	

Average	2.0 (1)	1.5 (2)	1.8 (4)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		1.5 (2)	1.0 (1)
Dairy	2.0 (1)		2.0 (3)

Free State

Parys, Parys Dierehospitaal

Dairy: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 1

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 2

Malmesbury, Dr OC Kriek Services

Dairy: 3

We are in the process of determining the reason but large calves seems to be a contributing factor and possibly mouldy silage, but the latter is difficult to confirm, however analysis of silage did indicate an elevated level of mycotoxins. An additional possible cause might be apple pulp that is kept for longer than 3 days that has possibly gone mouldy.

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1, Dairy: 1

Abscesses

PROV-INCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	2.0 (6)	1.0 (2)	3.0 (5)	2.0 (6)	2.3 (4)	2.0 (1)	1.3 (6)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (2)	2.0 (3)	1.0 (1)	3.0 (2)	2.0 (4)	2.3 (3)		1.0 (1)	
Dairy	1.0 (1)					2.0 (1)		1.5 (4)	
Sheep	2.0 (1)	2.0 (2)	1.0 (1)	3.0 (2)	2.0 (1)		2.0 (1)		
Goat		2.0 (1)		3.0 (1)	2.0 (1)			1.0 (1)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Piet Retief, Pets Vet Hospital

Dairy: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

Krugersdorp, Veearts Netwerk

Beef: 1

Pretoria, Onderstepoort AH and PAC

Beef: 3, Sheep: 2

Limpopo

Mokopane, Bundu Veterinary Services

Beef: 1

Nylstroom, Dr Hercu van Niekerk

Sheep: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Goat: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Ixopo, Howick Vet Clinic Ixopo

Dairy: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 1

Darling, Tygerberg Dierehospitaal Darling

Dairy: 2

Oudtshoorn, SAOBC

Goat: 1

Paarl, Paarl Dierehospitaal

Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Bladder stones									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	2.0 (1)			2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep					2.0 (1)			2.0 (1)	
Goat			1.0 (1)						

North West

Zeerust, Avontuur Veterinary Services

Goat: 1

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Blindness ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)				2.0 (1)	2.0 (1)		1.3 (4)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)					2.0 (1)		1.0 (1)	
Dairy								1.5 (2)	
Sheep	2.0 (1)				2.0 (1)			1.0 (1)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Free State

Koppies, Renosterrivier Dierekliniek

Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Western Cape

Oudtshoorn, SAOBC

Dairy: 2

Dairy calf speculator

Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 1, Sheep: 1

Bloat ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.5 (2)	1.8 (4)		1.5 (2)	1.6 (5)	1.5 (2)		1.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (2)	1.5 (2)		1.0 (1)	1.5 (4)				
Dairy						1.5 (2)		1.0 (1)	

Sheep	2.0 (1)		2.0 (1)		1.0 (1)
Goat	2.0 (1)	2.0 (1)			

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

North West

Brits, Zodiac Dierekliniek

Beef: 1

Zeerust, Avontuur Veterinary Services

Goat: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 2

Ixopo, Howick Vet Clinic Ixopo

Dairy: 1

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

Blue udder

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			1.5 (2)	2.5 (4)	1.0 (1)		1.3 (4)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						1.0 (1)			
Dairy								1.0 (2)	
Sheep	2.0 (2)			2.0 (1)	2.5 (4)			1.5 (2)	
Goat				1.0 (1)					

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2

Volksrust, Grasslands Veterinary Services

Sheep: 2

North West

Brits, Zodiac Dierekliniek

Sheep: 2, Goat: 1

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 1

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1, Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Diarrhoea

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	2.0 (1)		3.0 (5)	2.2 (5)	2.0 (3)		1.3 (4)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)	2.0 (1)		3.0 (2)	2.0 (2)	2.0 (3)		1.0 (1)	
Dairy								1.0 (1)	
Sheep	2.0 (1)			3.0 (2)	2.3 (3)			1.5 (2)	
Goat				3.0 (1)					

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Harrismith, Platberg Diere Gesondheid

Beef: 2, Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape**Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1, Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Epididymitis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)				1.0 (1)		2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	1.0 (1)						2.0 (1)	
Goat						1.0 (1)			

Mpumalanga**Bethal, Bethal Dierekliniek**

Beef: 2

Gauteng**Pretoria, Onderstepoort AH and PAC**

Beef: 1

Kwazulu-Natal**Pongola, Pongola Animal Clinic**

Goat: 1

Moraxella (pink eye)**Western Cape****Paarl, Paarl Dierehospitaal**

Beef: 2

Eye Cancer

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape

Average	1.0 (1)	1.0 (2)		2.0 (3)	2.0 (2)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)	1.0 (1)		2.0 (2)	2.0 (2)
Sheep		1.0 (1)		2.0 (1)	

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 1

Gauteng

Pretoria, Onderstepoort AH and PAC

Beef: 1, Sheep: 1

Free State

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Villiers, Wilgepoort Veedienste

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 2

Nictating membranes

Eye infections



PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	2.0 (4)	2.0 (1)	2.8 (5)	2.5 (12)	2.1 (8)	1.5 (2)	1.3 (6)	1.7 (3)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.5 (2)	2.0 (1)	2.0 (1)	2.5 (2)	2.4 (8)	2.2 (5)		1.3 (4)	
Dairy		2.0 (1)				2.0 (1)	2.0 (1)	2.0 (1)	
Sheep	2.0 (1)	2.0 (2)		3.0 (2)	2.7 (3)	2.0 (2)	1.0 (1)	1.0 (1)	2.0 (1)
Goat				3.0 (1)	3.0 (1)				1.5 (2)

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 2

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2

Irene, Agricultural Research Council Irene

Dairy: 2

Limpopo

Tzaneen, ZZ2 Farm Practice

Beef: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Potchefstroom, Bult Dierekliniek

Beef: 2

Zeerust, Avontuur Veterinary Services

Sheep: 3, Goat: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

Harrismith, Platberg Diere Gesondheid

Beef: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 2

Mooi River, Mooirivier Vet Clinic

Beef: 2, Dairy: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Sheep: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Eastern Cape

Alexandria, Alexandria Platteland Dierespreekkamer

Dairy: 2

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Paarl, Paarl Dierehospitaal

Beef: 2

Riversdale, Riversdal Dierekliniek

Beef: 1, Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Sheep: 2, Goat: 2

Upington, Upington Veeartsenykliniek

Goat: 1

Joint Ill

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)			3.0 (2)	1.7 (3)	1.0 (1)	2.0 (1)	1.0 (1)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (2)			3.0 (1)					
Sheep				3.0 (1)	1.7 (3)		2.0 (1)	1.0 (1)	2.0 (1)
Goat						1.0 (1)			

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Free State

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Goat: 1

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Caledon, Caledon Dierekliniek

Sheep: 1

Northern Cape

Upington, Upington Veeartsenykliniek

Sheep: 2

Lameness/Foot Problems

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (4)	1.7 (7)	2.8 (6)	2.4 (5)	1.7 (6)	1.5 (2)	1.5 (6)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.7 (3)	2.0 (3)	2.7 (3)	2.3 (4)	2.0 (2)		1.0 (2)
Dairy				3.0 (1)	2.0 (1)	2.0 (1)	3.0 (1)
Sheep	3.0 (1)	1.0 (2)	3.0 (2)		1.5 (2)		1.5 (2)
Goat		2.0 (2)	3.0 (1)		1.0 (1)	1.0 (1)	1.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 3

Lydenburg, Lydenburg Dierekliniek

Beef: 1

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Hammanskraal, Themba Animal Clinic

Beef: 3, Goat: 3

Irene, Agricultural Research Council Irene

Sheep: 1

Foot rot

Pretoria, Onderstepoort AH and PAC

Beef: 1, Sheep: 1, Goat: 1

North West

Brits, Zodiac Dierekliniek

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Dewetsdorp, Platkop Dierekliniek

Beef: 2

Harrismith, Harrismith Dierehospitaal

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Dairy: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Kwazulu-Natal

Ixopo, Howick Vet Clinic Ixopo

Beef: 1

Kokstad, EG Veterinary Services Kokstad

Dairy: 2, Sheep: 2

Pongola, Pongola Animal Clinic

Sheep: 1, Goat: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 2

Bathurst, Dr Jane Pistorius

Goat: 1

Foot abscess

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Sheep: 2

Foot rot

Oudtshoorn, SAOBC

Sheep: 1, Goat: 1

Riversdale, Riversdal Dierekliniek

Beef: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 3

Foot rot

Lung infection

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.7 (7)	1.6 (5)		3.0 (8)	2.2 (17)	2.5 (6)	1.0 (1)	2.1 (8)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (4)	1.7 (3)		3.0 (3)	2.0 (11)	2.4 (5)		1.5 (2)	
Dairy						3.0 (1)	1.0 (1)	2.0 (2)	
Sheep	2.0 (3)	2.0 (1)		3.0 (3)	2.4 (5)			2.7 (3)	
Goat		1.0 (1)		3.0 (2)	3.0 (1)			2.0 (1)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1, Sheep: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Standerton, Standerton Dierehospitaal

Beef: 1, Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Hammanskraal, Themba Animal Clinic

Beef: 1

Irene, Agricultural Research Council Irene

Beef: 2

Bovine respiratory disease, 3 cases

Sheep: 2

7 cases

Pretoria, Onderstepoort AH and PAC

Goat: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 3, Sheep: 3

Bothaville, Bothaville Dierekliniek

Beef: 1

One outbreak in feedlot with offloading of cattle after transport

Ficksburg, Oosvrystaat Dier Produkte

Beef: 1

Harrismith, Platberg Dier Gesondheid

Beef: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Beef: 2, Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Vrede, PDR Repro

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Dierespreekkamer

Dairy: 1

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3, Sheep: 3

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Dr OC Kriek Services

Dairy: 1

Oudtshoorn, SAOBC

Goat: 2

Paarl, Paarl Dierehospitaal

Beef: 2

Riversdale, Riversdal Dierekliniek

Beef: 1

Mastitis in general

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (1)	1.8 (6)			1.7 (3)	2.3 (4)		1.8 (5)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)	2.0 (1)				2.5 (2)			
Dairy		1.0 (1)			3.0 (1)	2.0 (2)		1.8 (5)	
Sheep		2.0 (2)			1.0 (2)				
Goat		2.0 (2)							2.0 (1)

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 1

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Sheep: 2

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

Pretoria, Onderstepoort AH and PAC

Dairy: 1, Goat: 2

Free State**Parys, Parys Dierehospitaal**

Dairy: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal**Kokstad, EG Veterinary Services Kokstad**

Dairy: 1

Mooi River, Mooirivier Vet Clinic

Dairy: 3

Pongola, Pongola Animal Clinic

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape**Caledon, Caledon Dierekliniek**

Dairy: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 1

George, George Animal Hospital

Dairy: 3

Malmesbury, Dr OC Kriek Services

Dairy: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Goat: 2

Navel III

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					2.0 (2)	1.3 (4)		1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef						1.3 (3)			
Dairy						1.0 (1)			
Sheep					2.0 (2)			1.0 (1)	

Free State

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 1

Trauma

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (2)				1.5 (2)	1.3 (3)		2.0 (2)	1.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)				1.5 (2)	1.5 (2)		2.0 (1)	1.0 (1)
Dairy						1.0 (1)		2.0 (1)	
Sheep	2.0 (1)								

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

Free State**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

Oranjeville, Grasveld Kuddegeseondheid

Beef: 1

Kwazulu-Natal**Camperdown, Camperdown Vet Clinic**

Beef: 2

Ixopo, Howick Vet Clinic Ixopo

Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Western Cape**Paarl, Paarl Dierehospitaal**

Beef: 2, Dairy: 2

Northern Cape**Colesberg, Karoo Veterinary Hospital**

Beef: 1

Obturator nerve paralysis

Downer

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		2.0 (1)		3.0 (3)	1.3 (4)			1.3 (3)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		2.0 (1)		3.0 (1)	1.3 (3)			1.0 (1)	
Dairy								1.5 (2)	
Sheep				3.0 (1)	1.0 (1)				
Goat				3.0 (1)					

Gauteng**Pretoria, Onderstepoort AH and PAC**

Beef: 2

North West**Zeerust, Avontuur Veterinary Services**

Beef: 3, Sheep: 3, Goat: 3

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Western Cape**Oudtshoorn, SAOBC**

Beef: 1

Post trauma, animal slipped in fence

Paarl, Paarl Dierehospitaal

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Other [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		2.0 (1)							

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep		2.0 (1)							
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Gauteng

Irene, Agricultural Research Council Irene

Sheep: 2

Inappetence - weight loss, 5 cases

Wet carcasses [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age					2.0 (1)			2.0 (2)	2.0 (1)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					2.0 (1)			2.0 (1)	
Dairy								2.0 (1)	
Sheep									2.0 (1)

Free State

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Western Cape

Paarl, Paarl Dierehospitaal

Beef: 2, Dairy: 2

Northern Cape

De Aar, De Aar Veterinary Clinic

Sheep: 2

Yellow carcasses at abattoir [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average								1.0 (1)	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep								1.0 (1)	2.0 (1)
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Western Cape

George, George Animal Hospital

Sheep: 1

Northern Cape

De Aar, De Aar Veterinary Clinic

Sheep: 2

Metabolic Diseases

Acidosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)			2.0 (1)	1.8 (9)			1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.5 (2)				1.8 (4)				
Sheep				2.0 (1)	1.8 (5)				
Goat								1.0 (1)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 1

North West

Brits, Brits Dierekliniek

Sheep: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Sheep: 1

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

Villiers, Wilgepoort Veedienste

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Goat: 1

Displaced abomasum									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy						1.0 (1)			
Kwazulu-Natal									
Dundee, Endumeni Herd health									
Dairy: 1									
Ketosis									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average					1.3 (4)			2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy								2.0 (1)	
Sheep					1.3 (4)				
Free State									
Harrismith, Platberg Diere Gesondheid									
Sheep: 1									
Koppies, Renosterrivier Dierekliniek									
Sheep: 1									
Reitz, Riemland Dierehospitaal									
Sheep: 2									
Wesselsbron, Wesselsbron Dierekliniek									
Sheep: 1									
Western Cape									
Worcester, Durban Straat Dierekliniek Worcester									
Dairy: 2									
Milk Fever									
PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)			2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy								2.0 (1)	
Sheep					1.5 (2)				
Free State									
Reitz, Riemland Dierehospitaal									

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Other [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		1.0 (1)				1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1)

Goat 1.0 (1)

Gauteng

Pretoria, Onderstepoort AH and PAC

Goat: 1

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 1

Rumen stasis

Reproductive diseases

Endometritis [^](#)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		1.0 (1)			1.7 (3)	2.3 (3)		2.0 (3)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef 1.0 (1) 2.0 (2) 2.0 (1)

Dairy 1.0 (1) 2.5 (2) 2.0 (3)

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1

Free State

Dewetsdorp, Platkop Dierekliniek

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 2

Parys, Parys Dierehospitaal

Dairy: 1

Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 2, Dairy: 2

Underberg, Underberg Veterinary Surgery

Dairy: 3

Dirty / pyometra / endometritis cows at calving

Western Cape**Caledon, Caledon Dierekliniek**

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 1

Metritis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age				2.7 (3)	1.0 (1)	2.0 (6)		2.0 (4)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				2.5 (2)	1.0 (1)	2.3 (3)			
Dairy						1.7 (3)		2.0 (4)	
Sheep				3.0 (1)					

North West**Brits, Zodiac Dierekliniek**

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Free State**Bothaville, Valsrivier Vet**

Beef: 1

Kwazulu-Natal**Ixopo, Howick Vet Clinic Ixopo**

Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Mooi River, Mooirivier Vet Clinic

Beef: 3, Dairy: 3

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape**Caledon, Caledon Dierekliniek**

Dairy: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr OC Kriek Services

Dairy: 1

Riversdale, Riversdal Dierekliniek

Dairy: 1

Mismothering

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)					1.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)					1.0 (1)			
Sheep	2.0 (1)								

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 1

Other



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy								3.0 (1)	
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Western Cape

Malmesbury, Dr OC Kriek Services

Dairy: 3

Obesity in pre-calving heifers - Maintaining an ideal body condition before calving seems to be a bit of a challenge.

Poor conception



PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)		3.0 (1)	2.8 (4)	2.3 (10)	2.8 (4)		3.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (3)		3.0 (1)	2.5 (2)	2.5 (8)	2.7 (3)			
Dairy								3.0 (1)	
Sheep				3.0 (1)	1.5 (2)	3.0 (1)			
Goat				3.0 (1)					

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dierekliniek

Beef: 2

Standerton, Standerton Dierehospitaal

Beef: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 3

North West

Christiana, Christiana Dierehospitaal

Beef: 2

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Harrismith, Platberg Diere Gesondheid

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Mid summer drought

Koppies, Renosterrivier Dierekliniek

Beef: 2, Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Oranjeville, Grasveld Kuddegondheid

Beef: 2, Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

Senekal, Senekal Dierekliniek

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Kokstad, EG Veterinary Services Kokstad

Beef: 3, Sheep: 3

Mooi River, Mooirivier Vet Clinic

Beef: 3

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Retained afterbirth

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (2)		3.0 (2)	1.0 (2)	1.7 (3)		2.0 (3)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	1.0 (1)		3.0 (1)	1.0 (2)	2.0 (2)			
Dairy		1.0 (1)				1.0 (1)		2.0 (3)	
Sheep				3.0 (1)					
Goat	2.0 (1)								

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Goat: 2

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

Irene, Agricultural Research Council Irene

Dairy: 1

North West**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal**Camperdown, Camperdown Vet Clinic**

Beef: 1

Kokstad, EG Veterinary Services Kokstad

Dairy: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 3

Malmesbury, Dr OC Kriek Services

Dairy: 2

Often a problem when cow had difficult birth

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Sheath Prolapse

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	2.0 (1)	2.0 (1)		3.0 (1)	1.0 (4)	1.5 (2)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)	2.0 (1)		3.0 (1)	1.0 (4)	1.5 (2)			
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Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2

Gauteng**Pretoria, Onderstepoort AH and PAC**

Beef: 2

North West**Zeerust, Avontuur Veterinary Services**

Beef: 3

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 1

Koppies, Renosterrivier Dierekliniek

Beef: 1

Parys, Parys Dierehospitaal

Beef: 1

Senekal, Senekal Dierekliniek

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Uterus prolapse ^

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (3)		1.0 (2)	1.9 (8)	1.7 (3)		1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (2)	1.0 (2)		1.0 (1)	1.8 (5)	2.0 (1)			
Dairy						2.0 (1)		1.0 (1)	
Sheep		1.0 (1)		1.0 (1)	2.0 (3)	1.0 (1)			

Mpumalanga

Standerton, Standerton Dierehospitaal

Beef: 1

Volkstrust, Grasslands Veterinary Services

Beef: 1

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 1

North West

Brits, Brits Dierekliniek

Beef: 1, Sheep: 1

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Koppies, Renosterrivier Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

Warden, Warden Dierehospitaal

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Ixopo, Howick Vet Clinic Ixopo

Dairy: 2, Sheep: 1

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 1

Vaginal (Cervical) prolapse

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.0 (4)	2.0 (2)	1.0 (1)	1.0 (1)	2.0 (9)	1.3 (3)		1.0 (2)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (3)	3.0 (1)	1.0 (1)	1.0 (1)	2.0 (4)	1.3 (3)		1.0 (2)	
Dairy					1.0 (1)				
Sheep	1.0 (1)	1.0 (1)			2.3 (4)				

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 1

Standerton, Standerton Dierehospitaal

Beef: 1

Volkstrust, Grasslands Veterinary Services

Beef: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 1

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Brits, Brits Dierekliniek

Beef: 1

Free State

Clocolan, Clocolan Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 2

Koppies, Renosterrivier Dierekliniek

Dairy: 1, Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Senekal, Senekal Dierekliniek

Beef: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Warden, Warden Dierehospitaal

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Camperdown, Camperdown Vet Clinic

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1

Western Cape**George, George Animal Hospital**

Beef: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Dystocia (Difficult Births)

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age	1.6 (5)	2.0 (5)		2.3 (10)	1.9 (18)	1.9 (11)		1.5 (2)	2.0 (2)

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (3)	3.0 (1)		2.5 (4)	1.9 (13)	2.0 (7)		2.0 (1)	1.0 (1)
Dairy						1.5 (2)		1.0 (1)	
Sheep	1.0 (2)	1.5 (2)		2.3 (3)	1.8 (5)	3.0 (1)			3.0 (1)
Goat		2.0 (2)		2.0 (3)		1.0 (1)			

Mpumalanga**Grootvlei, Grootvlei Dierekliniek**

Beef: 2, Sheep: 1

Lydenburg, Lydenburg Dierekliniek

Sheep: 1

Standerton, Standerton Dierehospitaal

Beef: 2

Volksrust, Grasslands Veterinary Services

Beef: 2

Gauteng**Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 1

Hammanskraal, Themba Animal Clinic

Beef: 3, Sheep: 2, Goat: 3

Pretoria, Onderstepoort AH and PAC

Goat: 1

North West**Brits, Brits Dierekliniek**

Beef: 2, Sheep: 2, Goat: 1

Brits, Zodiac Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Christiana, Christiana Dierehospitaal

Beef: 3

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State**Bloemfontein, Dr Stephan Wessels (BVSc)**

Beef: 1

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Harrismith, Platberg Diere Gesondheid

Beef: 2, Sheep: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 2, Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Veedienste

Beef: 2

Warden, Warden Dierehospitaal

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal**Bergville, Bergville Veterinary Clinic**

Beef: 2

Camperdown, Camperdown Vet Clinic

Goat: 1

Caesarian performed

Dundee, Endumeni Herd health

Beef: 3

Ixopo, Howick Vet Clinic Ixopo

Dairy: 1

Kokstad, EG Veterinary Services Kokstad

Beef: 1

Mooi River, Mooirivier Vet Clinic

Beef: 2, Dairy: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Western Cape**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Beef: 1

Kuruman

Upington, Upington Veeartsenykliniek

Sheep: 3

Climatical Cause

Cold exposure ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (2)			1.0 (1)	1.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Dairy							1.0 (1)		
Sheep				3.0 (1)				1.0 (1)	
Goat				3.0 (1)					

North West

Zeerust, Avontuur Veterinary Services

Sheep: 3, Goat: 3

Eastern Cape

Alexandria, Alexandria Platteland Dieresprekkamer

Dairy: 1

Hypothermia

Western Cape

Riversdale, Riversdal Dierekliniek

Sheep: 1

Lightning ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (4)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef					1.5 (4)				
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Free State

Bloemfontein, Dr Stephan Wessels (BVSc)

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 2

Vrede, PDR Repro

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 1

Frozen to death ^

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (3)					

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)
Sheep	3.0 (1)
Goat	3.0 (1)

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Non specific diseases

Cause of death not established

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Aver-age				3.0 (3)					

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)
Sheep	3.0 (1)
Goat	3.0 (1)

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Predators

PROV-INCE	Mpu-ma-langa	Gaut-eng	Limpopo	North West	Free State	Kwazulu-Na-tal	Eastern Cape	Western Cape	Northern Cape
Aver-age	1.0 (1)	3.0 (1)		3.0 (3)	2.0 (3)				

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	1.0 (1)	3.0 (1)		3.0 (1)					
Sheep				3.0 (1)	2.0 (3)				
Goat				3.0 (1)					

Mpumalanga

Standerton, Standerton Dierehospitaal

Beef: 1

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 3

North West

Zeerust, Avontuur Veterinary Services

Beef: 3, Sheep: 3, Goat: 3

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Lamb bitten by dog

Sabotage/Theft

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)			2.0 (1)	2.4 (5)	2.0 (1)			

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)			2.0 (1)	2.0 (2)	2.0 (1)			
Sheep	3.0 (1)				2.7 (3)				

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

Standerton, Standerton Dierehospitaal

Beef: 1

North West

Brits, Brits Dierekliniek

Beef: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 1

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Trauma

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)							2.0 (1)	

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (1)								
Dairy								2.0 (1)	
Sheep	2.0 (1)								

Mpumalanga
Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Western Cape

Malmesbury, Dr OC Kriek Services

Dairy: 2

Veld fires

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		2.0 (1)							

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep		2.0 (1)							
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Gauteng

Pretoria, Onderstepoort AH and PAC

Sheep: 2

Dog bite wounds

Other

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
Aver- age		1.0 (3)							

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef		1.0 (1)							
Sheep		1.0 (1)							
Goat		1.0 (1)							

Gauteng

Pretoria, Onderstepoort AH and PAC

Beef: 1

Fracture

Sheep: 1

Fracture

Goat: 1

Traumatic Reticulo-pericarditis

PROV- INCE	Mpu- ma- langa	Gaut- eng	Limpopo	North West	Free State	Kwazulu-Na- tal	Eastern Cape	Western Cape	Northern Cape
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Average	1.0 (1)	2.0 (1)	2.0 (1)	1.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported				
Beef	1.0 (1)	2.0 (1)	2.0 (1)	
Dairy				1.0 (1)
Mpumalanga				
Lydenburg, Longtom Dierkliniek				
Beef: 1				
North West				
Zeerust, Avontuur Veterinary Services				
Beef: 2				
Free State				
Kroonstad, Kroonstad Dierhospitaal				
Beef: 2				
Western Cape				
Stellenbosch, Stellenbosch Animal Hospital				
Dairy: 1				