# 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

# December 2018

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

These reports include data from individual practices

#### **Click on Disease Reports**

#### The following practices and laboratories (121) submitted reports during December 2018:

#### Mpumalanga (11)

Balfour - Dr. Louis van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Karino – Dr. Silke Pfitzer

Lydenburg – Dr. Marietjie Malan

Middelburg – Drs. Erasmus, Malan and Bernitz

Nelspruit – Dr. André Beytel

Piet Retief - Drs. Niebuhr and Weber

Standerton - Dr. Kobie Kroon

Volksrust – Dr. Johan Blaauw

#### Gauteng (9)

Bapsfontein – Drs. Englbrecht and Olivier

Bronkhorstspruit - Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal - Dr. Hentie Engelbrecht

Magaliesburg - Dr. Ryan Jeffery

Nigel - Dr. Cindy van der Westhuizen

Onderstepoort Veterinary Academic Hospital – Proff. Annandale, Shakespear, Holm, Pettey and Drs,

Fitte, Grobler, Hamman, Koeppel, Leask, Mabu, Marufu, Mokoele, O'Dell, Tshuma and Van der Leek

Pretoria – Dr. Hanneke Pienaar

University of Pretoria – Dr. Emily Mitchell

Vanderbijlpark – Dr. Kobus Kok

#### Limpopo (9)

Bela-Bela – Dr. Nele Sabbe

Makhado (Louis Trichardt) – Drs. Harris, Klopper and Jacobs

Mokopane (Potgietersrust)- Dr. Henk Visser

Mokopane - Dr. Alwyn Venter (CCS)

Polokwane (Pietersburg) – Drs. Watson, Viljoen, Jansen van Vuuren, Van Rooyen, Snyman and Cremona

Tzaneen – ZZ2 Farm practice – Dr. Danie Odendaal

Tzaneen – Drs. Cordier and van der Berg

Vaalwater – Dr. Hampie van Staden

Vaalwater – Dr. Annemieke Müller

#### North West (8)

Brits - Dr. Boshoff and Coertze

Klerksdorp – Drs. Geral, Theron, Van den Berg and Van den Berg

Leeudoringstad - Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie -Krüger-Rall

Rustenburg – Drs. Goosen, Grobler, Sparks, Van Egdom, Van Rensburg and Van Rooyen

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Vryburg - Dr. Jurie Kritzinger

#### Free State (23)

Bloemfontein – Dr. Stephan Wessels

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Ladybrand – Dr. Dedré Nel

Ficksburg – Drs. Kotzé and Coetzer

Frankfort - Drs. Lessing, Cilliers and Janse van Rensburg

Gariep Dam – Dr. Marni Malan

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

Kroonstad – Drs. Daffue, Eksteen, Van Zyl and Van der Walt

Memel – Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan van Niekerk

Reitz - Dr. Murray Smith

Senekal - Dr. Jan Blignaut

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers - Drs. Hattingh and Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Wesselsbron - Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

#### KwaZulu-Natal (12)

Bergville - Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee - Drs. Marais, Fynn and Reynolds

Eshowe – Drs. Pryke and Hoffman

Estcourt – Drs. Turner, Tedder, Taylor, Tratschler, Van Rooyen and Alwar

Kokstad/Elliot - Drs. Clowes and Shrives

Mtubatuba - Dr. Trever Viljoen

Newcastle – Dr. Barry Rafferty

Pongola - Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid – Drs.Theron and Theron

#### Eastern Cape (15)

Adlaide – Dr. Steve Cockroft

Alexandria - Dr. Johan Olivier

Alexandria – Dr. Charlene Boy

Aliwal North – Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Cradock - Dr. Frans Erasmus

Graaff- Reinet - Dr. Roland Larson

Humansdorp – Drs. Van Niekerk, Jansen Van Vuuren and Davis

Jeffreys Bay – Drs. Lategan, Hoek and McFarlane

Kareedouw – Dr. Marten Bootsma

Queenstown – Drs. Du Preez, Godley, Klopper, Jansen van Vuuren, De Klerk and Catherine

Steynsburg – Dr. Johan Van Rooyen

Stutterheim – Dr. Dave Waterman

Uitenhage – Drs. Mulder and Krüger

Witelsbos – Dr. Elmien Kotze

#### Western Cape (20)

Beaufort West - Dr. Jaco Pienaar

Caledon – Drs. Louw and Viljoen

Ceres – Drs. Pieterse, Wium, De Villiers and Scheepers

Darling – Drs. Van der Merwe, Adam, Lord, Jenkins and Hodgson

George - Drs. Strydom, Truter and Pettifer

Heidelberg - Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury - Dr. Markus Fourie

Malmesbury – Drs. Heyns and Zolner

Moorreesburg -Drs. Kotzé and Sheridan

Oudtshoorn - Dr. Adriaan Olivier

Piketberg – Dr. André van der Merwe

Plettenberg Bay – Dr. André Reitz

Riversdale – Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch - Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Wellington – Dr. Van Zyl and Louw

Worcester - Dr. Kobus Rabe

#### Northern Cape (7)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

Kathu - Dr. Jan Vorster

Kimberley – Drs. Van Heerden and Swart

Kuruman – Dr. Lea Shuda

Postmasburg – Dr. Boeta van der Merwe

Upington – Drs. Vorster and Visser

#### Feedlots (1)

Drs. Morris and Du Preez

#### Laboratory reports (6)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Sophette Gers – Pathcare, Cape Town

Dr. Annelie Cloete - Stellenbosch

Dr. Mark Chimes – Dairy Standards, George

# **Summary**

Biosecurity is the key to successful farming with production animals!



Just bringing in one infected (eg. foot and mouth disease, bovine brucellosis, ovine brucellosis, Johne's disease, pest of small stock – PPR, sheep scab and resistant parasites) may lead to huge economic losses to the farmer and the country!

Buyer Beware! Should always be on your mind. It is your right to demand from the seller a vendor's declaration – see later in the report.

All farmers, veterinarians, animal health technicians, auctioneers, agricultural advisors and sales persons have to work together to contain and eradicate the present Foot and mouth outbreak so thar South Africa gain regain its foot and mouth free status!!!!

Media release

Immediate release

# POSITIVE FOOT-AND-MOUTH DISEASE RESULTS IN THE

Date: 08 January 2019

# VHEMBE DISTRICT OF LIMPOPO

The Department of Agriculture, Forestry and Fisheries (DAFF) has been informed today, of positive laboratory results for Foot-and-mouth disease (FMD) in cattle in the Vhembe District of Limpopo. Samples were collected during a disease investigation after reports of cattle with lameness were received. The positive location is just outside the FMD Control Zone in the Free Zone without vaccination.

A team of experts from the Department and the Limpopo Veterinary Services is on the ground conducting further investigations to verify the results and determine the extent of the outbreak. The control measures will be determined by the findings of this investigation.

The matter has been reported to the World Organisation for Animal Health (OIE) on Monday (7 January 2019). As a result of this development, the official OIE recognised FMD-free status of

South Africa is temporarily suspended. Consequently, any exports where FMD free zone

attestation is required, cannot be certified.

FMD is a severe, highly contagious viral disease which affects livestock with significant economic

impact. The disease affects cattle, pigs (domestic and wild), sheep, goats, and other cloven hoofed animals. The disease does not affect human beings. Signs of disease may include depressed animals, sores in the mouth of animals causing reluctance to eat and lameness. Any

suspected case of the disease in animals must be reported to the local State Veterinarian

immediately.

The affected area is under quarantine and no movement of animals and animal products are

allowed. Farmers further away from the outbreak are cautioned to observe bio-security measures

- not to allow any new animals into their herds, and to minimise the movement of their own herds

to other farms.

For more information, contact:

**Spokesperson: Ministry of Agriculture, Forestry and Fisheries** 

Mr Khaye Nkwanyana

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Tel. 083 952 9723

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Cell: 082 323 0166



# EPIDEMIOLOGY REPORT

December 2016 Volume 10 tissue 12

#### Animal disease surveillance: a refresher

Laura Roberts

Disease surveillance is one of the main functions of Veterinary Services, and a vital component of disease control. To control a disease, one needs to know where it is, what control methods to use and then whether the control is working. However, the exact aims and mechanisms of disease surveillance are not always clearly recognised or remembered.

Firstly, surveillance is often defined as more than just the collection of data; it is also the collation, analysis, interpretation and dissemination of information. All these facets should be planned together to ensure the efficiency of the system. There is no use in collecting information that is not used for anything.

The broad aims of disease surveillance include proving absence of diseases, usually with trade significance and, by the same token, early detection of exotic diseases (e.g. peste des petits ruminants). These aims involve simply determining presence or absence of a disease. Additionally, surveillance can target endemic diseases and serve to estimate prevalence or incidence of a disease. This could be related to monitoring the progress of a control strategy (e.g. bovine brucellosis). Thirdly, efforts should be made to detect emerging or new diseases as early as possible and to control and learn about them.

The surveillance methods used will depend on the target disease(s) (diagnostic methods required, transmission, consequences etc.), the aim of surveillance (as above), the population at risk and the personnel and resources available, to name a few factors. As with many things, the methods with the most conclusive outputs are often the most expensive and intensive. However, with some creativity, cheaper methods can still be useful. Hoinville et al (2009) report the observation by a workshop attendee (Haesler) that the adverse effects of a disease must be weighed against the cost of both its surveillance and control. If the budget is used up on surveillance and there is no money left to control the disease, the exercise may be pointless. Ideally, though, thorough surveillance may be a tool to motivate an increase in budget.

Surveillance methods can vary from dedicated surveys based on a careful sample size calculation to less specific, more constant surveillance which could simply involve a

disease notification system. The terms active and passive surveillance have been used traditionally, and can be seen as based on whether the action is initiated by the investigator or the observer respectively (does someone go out looking for the disease or wait for someone else to see it and tell them?). However, these terms tend to only identify the two extremes of how data is collected. Hoinville at al. (2013) propose that these terms should still be used but suggest the additional term "enhanced passive surveillance" to describe more organised systems where investigators encourage and assist disease recognition and reporting. Realistically, a veterinary service that does no awareness training with the public and other animal health role players (i.e. is truly passive) will never achieve useful surveillance and will not be able to provide useful information to trade partners. A structured passive surveillance system can be very valuable. The structure could involve specific people or organisations who commit to

reporting at set intervals. The OIE Terrestrial Manual disease surveillance chapter refers to "structured population-based" surveillance (e.g. random surveys) and "structured non-random" surveillance (e.g. disease reporting or notifications), a classification based on how units for observation are selected.

Passive (or non-random) surveillance can be based on data collected routinely with a more general purpose, such as ante- or post-mortem abattoir inspections,

Sampling of ostriches for avian influenza surveillance is one of the functions of Veterinary Services.

Laboratory test data (this will help detect subclinical disease), herd production records, private veterinarians' records or simply daily herd inspection records and observations. Indirect methods such as drug sales could also be considered. Newer, developing methods include syndromic surveillance and participatory epidemiology/ rapid rural appraisal. Syndromic data can potentially indicate an increase in disease incidence before a definitive diagnosis is made and assist with early warning. Participatory epidemiology and rapid rural appraisal (RRA) have been developed for resource poor countries, to assist with monitoring morbidity (signs of illness). Interview methods have been developed to obtain data from farmers and to integrate indigenous knowledge of diseases.

"Passive" methods can be more affordable than a dedicated survey, but may not give accurate estimates of prevalence or be truly representative of the population. There is also heavy reliance on awareness and a good relationship with people reporting. A farmer or private veterinarian who is expected to report livestock disease must know what to look for, how to compile the information, who to tell and be able to do this easily and quickly. Incentives will help ensure an efficient system, especially where more effort or risk is involved (e.g. potential culling of livestock by the state). All possible sources of animal health data should be considered. Emerging diseases especially rely on a good general disease surveillance system to detect when there is an increase in undiagnosed disease and ensure that the agent is identified as quickly as possible.

Ideal disease surveillance (active/ random) would make use of a reliable laboratory test that accurately identifies infected (good sensitivity) and uninfected (good specificity) animals. The surveillance plan would be based on a reasonably accurate census (to get a sampling frame) and knowledge of the population structure and composition (herd size and location, ages, breeds, vaccination status etc.) and then a sample size would be calculated to make sure a representative sample is taken. For an accurate sample size, one unfortunately also needs to estimate what the disease prevalence would be if the disease was present in the

population. This depends on the disease, and other factors including the population composition, vector prevalence and immune status. Sample size also depends on the required level of precision and confidence. To be more precise will require more samples.

Next, there is a difference in sample size calculation, depending on the aim of the surveillance. To simply determine presence or absence of disease requires far fewer samples than to estimate prevalence, with the same assumed maximum prevalence and precision. Interestingly, however, when detecting presence/ absence more samples are required when the disease is present at a lower prevalence while the opposite is true when determining prevalence.

To sum up, a simple example of a disease surveillance system would be based on education of animal owners and good communication between owners and Veterinary Services. This should assist with

identification of diseases with obvious clinical signs, and may be enough for less trade-sensitive diseases or diseases with fewer major consequences. Any other sources of animal morbidity data should also be included, where possible. Surveillance for sub-clinical diseases will probably require the use of laboratory tests, but the costs of surveillance will then increase, so the need for surveillance and the sampling strategy must be carefully justified.

#### References

Thrusfield, M. 2005. Veterinary Epidemiology. 3rd ed. Blackwell Science Itd

Chapter 1.4 of the OIE Terrestrial Animal Health Code. http:// w w w . o i e . i n t / i n d e x . p h p ?  $id=169\&L=0\&htmfile=chapitre\_surveillance\_general.htm$ 

Hoinville et al., 2009. Discussing the development and application of methods for effective surveillance in livestock populations. Report of a workshop held prior to the ISVEE conference; Durban, South Africa

Hoinville, et al., 2013. Proposed terms and concepts for describing and evaluating animal-health surveillance systems. Preventive Veterinary Medicine, 112(1-2), pp.1-12.

# An update on rabies in South Africa, 2018

No additional cases of human rabies have been confirmed since the last report. In total, 15 cases of human rabies have been confirmed in South Africa for 2018 to date. These cases were reported from KwaZulu-Natal (n=8), Eastern Cape (n=6) and Mpumalanga (n=1) provinces. In addition, two probable cases (not laboratory confirmed) were reported from the Eastern Cape Province.

Rabies in animals are continuously reported from various animal species in different locations in South Africa. In 2018, rabies has been reported in dogs from KwaZulu-Natal, Eastern Cape, Mpumalanga, Free State, North West and Limpopo provinces. Two cases of rabies in dogs were also confirmed in Ga-Rankuwa (located about 40 kilometres north of Pretoria), Gauteng Province, in November 2018. Rabies has also been reported in jackals, mongoose and genets. Livestock such as cattle, sheep, goats and horses have also tested positive for rabies in 2018.

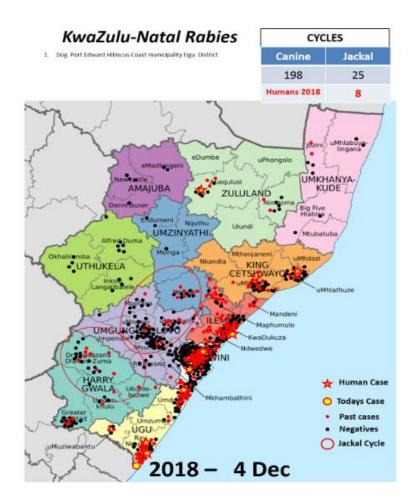
Although not treatable, rabies can be controlled and infection prevented. Dogs and cats can be vaccinated against rabies, which does not only protect the animal from the disease, but also all those who may come into contact with that animal. In South Africa, vaccination of dogs and cats is required by law (from three months of age) and can be routinely accessed through private veterinarians and many animal wellfare and nonprofit organisations serving communities in the country. State veterinary services routinely respond to reports of rabies in animals, and provide strategic vaccination of dog (and cat) populations in affected areas. The public is urged to ensure that their pets have been vaccinated against rabies and that their immunisation schedule remains up to date. This is particularly important ahead of the holiday season, and when families take their pets to holiday destinations around the country.

Since the rabies virus is spread through direct contact with rabid animals, it is advised to generally avoid interaction with unfamiliar animals. Rabies disease changes the behaviour of animals, for example, an animal that you would expect to be wild can appear tame. As such, it is important to report all direct contact with wildlife that is out of the ordinary. Do not feed or approach wild animals even though they seem friendly. On the other hand, an approachable pet may become aggressive. Report stray dogs to the responsible state veterinarian, and avoid interaction with such dogs if possible.

When potential exposure to rabid animals occurs, the infection can be effectively prevented through rabies post-exposure prophylaxis. This treatment includes thorough washing and treating of all wounds, and the application of rabies vaccine and rabies antibody-therapy.

It is important to understand that the rabies virus is transmitted through direct contact with the infected saliva of a rabid animal. Infection may occur when this infected saliva enters the body of a person, through a bite, scratch or other injuries that have penetrated the skin. Exposures that could have brought animal saliva into contact with a person's mouth, nose or eyes, or broken skin, should also be reported. This may occur when, for example, a dog licks your face. When such exposures occur, it is important that the advice of a healthcare practitioner is urgently sought. When rabies is considered a risk, based on the circumstances of the possible exposure, rabies post-exposure prophylaxis must be provided. More information on rabies post-exposure prophylaxis can be accessed from the NICD website.

Source: Centre for Emerging Zoonotic and Parasitic Diseases, NICD-NHLS; januszp@nicd.ac.za



# **Bovine Brucellosis**

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!

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 is some 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.

# **Legal Aspects of Brucellosis Control**

#### Introduction

The main purpose of the Animal Diseases Act, No. 35 of 1984 ("the Act") is to control important and dangerous animal diseases. The Act and its Regulations have general control measures relevant to all diseases but also have specific control measures for certain diseases, such as brucellosis.

#### Livestock owners must inform certain people of presence of disease

Section 11 of the Act determines that livestock owners must take reasonable steps to prevent their animals from becoming infected and to prevent the spread of disease. This means that an owner is not allowed to knowingly buy infected animals and bring them into his herd. Where treatment is possible and available owners are also obliged to treat infected animals. An owner who suspects that his animals are infected with a controlled disease must report it to the local responsible state veterinarian.

The Regulations also stipulates that an owner who becomes aware of the presence of a controlled disease in his livestock must inform the following groups of people:

all his neighbours;

all prospective buyers;

all buyers who had bought animals from him within the preceding 30 days.

This is the case even if the disease has not been confirmed yet but is suspected.

#### Precautionary measures that are legally required

Table 2 of the Animal Diseases Regulations determines that all heifers between 4 and 8 months of age must be vaccinated once with an effective vaccine for brucellosis (currently the only approved vaccines available are Strain 19 and RB51). Strain 19 may only be used in heifers between 4 and 8 months of age and it may not be repeated. Follow-up vaccinations with RB51 in female animals may be done, but only with the written permission of the responsible state veterinarian. No bulls may be vaccinated, regardless of their age.

Animals may only be tested by a state veterinarian or official or a private veterinarian. It is not compulsory to test all cattle at this stage, but it is highly recommended, and it might become a legal requirement in the future. In specific circumstances the Director of Veterinary Services may compel an owner to test his animals.

#### Requirements for a positive herd

If there are any animals that test positive, the laboratory must immediately inform the responsible state veterinarian and if the tests were requested by a private veterinarian, he will also be informed of the results. The state veterinarian will then place the farm under quarantine which means that no susceptible or infected animals may be moved from the farm without the permission of the state veterinarian. A

quarantine notice will be given which will contain all the requirements that the owner will have to adhere to. The requirements in the quarantine notice may differ depending on the situation.

Every owner also has a duty to isolate infected and contact animals and keep them in isolation as soon as he becomes aware of the presence or suspected presence of brucellosis in his herd. An owner that removes his animals knowing that there are positive animals on his farm, commits an offence in terms of the Act, even if he has not been placed under quarantine by the state veterinarian yet.

All contact animals must also be tested by an official or authorized person. Animals which test negative may be vaccinated for brucellosis with the written permission of the state veterinarian.

Positive cattle must be branded with a "C" mark on the right side of their necks. Such animals may only be slaughtered with the written permission of the state veterinarian and at an approved abattoir. Animals may only be moved to the abattoir under cover of a Red Cross permit and may only be moved to the specific abattoir indicated on the permit. Under no circumstances may such animals be sold to any other person or at any other place and a person that does that is guilty of an offence in terms of the Act.

An owner must minimize contact with animals in isolation and only allow persons responsible for the care of the animals and officials responsible for implementing the control measures to have access to them.

Milk from cows that are infected or suspected to be infected with brucellosis may not be used for any purpose unless it has been boiled, pasteurized or sterilized.

The owner also has a duty to disinfect the area where the infected animals had been kept with an effective disinfectant and this includes the vehicles on which such animals were transported. Any equipment that has been potentially infected must also be disinfected in the prescribed manner.

Where any control measures have been performed on the animals, the owner must keep the proof thereof. This includes proof of vaccinations. Where the control measures had been done by an official or private veterinarian, the owner should request a certificate which contains the details of such measures. If an owner had performed some of the measures personally, proof can be provided by way of an affidavit accompanied by empty container and proof of purchase where relevant.

#### **Role of the State Veterinary Services**

Both National and Provincial Veterinary Services are mandated to implement and enforce the Act. They can compel an owner to have his animals tested if there is a suspicion that they might be infected. Owners who refuse to cooperate or comply with the requirements can be served with an order which compels him to take certain steps within a required period. They also have the power to enter a property or vehicle in order to conduct an inspection. If an owner, or someone acting on behalf of the owner transgress the Act, criminal charges can be made. In special circumstances, officials may even take control over a property in order to control a disease, whilst the costs of the control measures will be for the owner's account. State Veterinary Services will however only do this in extreme circumstances and always attempt to get the owner's cooperation first.

#### **Voluntary test programmes**

The Bovine Brucellosis Scheme (R.2483 of 9 Dec 1988) is currently enforced. There is also an interim manual for the control of bovine brucellosis available, which has been compiled by the Department of Agriculture, Forestry and Fisheries. Since the bovine brucellosis control policy is currently under revision, further details will not be discussed here.

#### Conclusion

It is important to remember that the Act aims at protecting the national herd, as well as humans against serious diseases such as brucellosis. All the control measures have been put in place for the purpose of this aim and not to punish people. Simply by following the principles of disease control and prevention, it should be easy to remain within the framework of the Act.

Compiled by: Dr Trudie Prinsloo Van Der Heever, veterinarian and legal advisor (trudie@legalvetservices.co.za)

Issued by: Brucellosis Steering Committee of the National Animal Health Forum

# Wetlike Aspekte van Brucellose Beheer

#### **Inleiding**

Die hoofdoel van die Wet op Dieresiektes, No 35 van 1984 ("die Wet") is om belangrike en gevaarlike dieresiektes te beheer. Hierdie Wet en die Regulasies daaronder bevat algemene bepalings maar stipuleer ook spesifieke beheermaatreëls vir seker dieresiektes soos brucellose.

#### Vee Eienaars moet sekere mense inlig oor siektes

Artikel 11 van die Wet bepaal dat vee eienaars alle redelike stappe moet neem om siektes en parasiete in hulle diere te voorkom en die verspreiding daarvan te verhoed. Dit beteken dat 'n eienaar nie willens en wetens besmette diere mag aankoop en tussen sy ander vee inbring nie. Eienaars is ook verplig om diere te behandel indien hulle wel besmet word waar behandeling moontlik en toelaatbaar is. Indien 'n vee eienaar vermoed dat sy diere 'n beheerde siekte het, is hy verplig om dit onmiddellik by die verantwoordelike staatsveearts aan te meld.

Die Regulasies bepaal verder dat 'n eienaar die voorkoms van 'n beheerde siekte moet bekend maak aan die volgende groepe mense:

al sy bure;

alle voornemende kopers;

kopers wat die voorafgaande 30 dae diere by hom gekoop het.

Dis belangrik om daarop te let dat dit ook geld selfs al word die siekte slegs nog vermoed.

#### Voorkomende maatreëls wat wetlik vereis word

Tabel 2 van die Dieresiektes Regulasies bepaal dat alle verse tussen die ouderdom van 4 en 8 maande eenmalig ingeënt moet word met 'n effektiewe entstof vir brucellose (tans is die enigste twee entstowwe wat goedgekeur is Stam 19 en RB51). Stam 19 mag slegs in verse tussen 4 en 8 maande oud gebruik word en mag nie herhaal word nie. Opvolginentings met RB51 in vroulike diere is wel toelaatbaar indien die verantwoordelike staatsveearts skriftelik toestemming gee daarvoor. Bulle mag nie ingeënt word nie, ongeag hulle ouderdom.

Diere mag slegs getoets word deur 'n staatsveearts of - beampte of deur 'n privaatveearts. Dit is nie op die oomblik verpligtend dat alle beeste getoets moet word nie, maar dit word aanbeveel en mag moontlik in die toekoms vereis word. In spesifieke gevalle mag die Direkteur van Veeartsenydienste wel 'n eienaar verplig om sy diere te laat toets.

#### Vereistes vir 'n positiewe kudde

Indien enige diere positief toets moet die laboratorium die verantwoordelike staatsveearts dadelik inlig. As 'n privaatveearts die toetse aangevra het sal die veearts ook ingelig word. Die staatsveearts sal die plaas onder kwarantyn plaas, wat beteken dat geen vatbare of besmette diere sonder toestemming van die staatsveearts van die plaas verwyder mag word nie. Die kwarantyn kennisgewing bevat die vereistes waaraan die eienaar moet voldoen en moet streng nagekom word. Dit mag effens ------ verskil van geval tot geval en hang af van die spesifieke situasie.

Elke eienaar het self ook 'n plig om alle besmette en kontak diere te isoleer en in isolasie te hou sodra hy bewus word van brucellose in sy kudde of selfs net van 'n vermoede daarvan. 'n Eienaar wat sy diere verwyder wetende dat daar positiewe diere is, oortree die Wet selfs al was hy nie onder kwarantyn geplaas nie.

Alle kontakdiere moet ook getoets word deur 'n beampte of gemagtigde persoon. Diere wat negatief toets mag met die skriftelike toestemming van die verantwoordelike staatsveearts geënt word teen brucellose.

Alle positiewe beeste moet gebrandmerk word met 'n "C" op hulle regter nek. Sulke diere mag alleenlik met die skriftelike toestemming van die staatsveearts geslag of verwyder word na 'n goedgekeurde abattoir. Diere kan net na 'n abattoir vervoer word met 'n Rooikruispermit en mag slegs na die spesifieke abattoir, wat op die permit aangedui is, gevat word. Sulke diere mag onder geen omstandighede aan enige ander persoon of op enige ander plek verkoop word of van kant gemaak word nie, en 'n persoon wat dit doen, oortree die Wet en dit is 'n strafbare handeling.

Die eienaar moet toegang tot diere, wat in isolasie aangehou word, beperk. Slegs persone wat verantwoordelik is vir die versorging van die diere en beamptes wat beheermaatreëls moet toepas, mag toegang tot sulke diere hê.

Melk van diere wat met brucellose besmet is (of vermoedelik besmet is) mag glad nie vir enige doel gebruik word nie tensy dit gekook, gepasteuriseer of gesteriliseer is.

Daar rus ook 'n verpligting op die eienaar om die plek waar 'n besmette dier aangehou is, en die voertuig waarop so 'n dier vervoer is, te ontsmet met 'n effektiewe ontsmettingsmiddel. Enige toerusting, wat potensieel besmet is, moet ook op die voorgeskrewe manier ontsmet word.

Bewys van enige beheermaatreëls, wat op die diere toegepas is, moet deur die eienaar gehou word. Dit sluit bewys van inentings in. Indien dit deur 'n beampte of veearts gedoen word, moet die eienaar daardie persoon vra vir 'n sertifikaat waarop die besonderhede daarvan aangedui word. Indien dit deur die eienaar self gedoen is, moet hy bewys daarvan lewer deur middel van 'n beëdigde verklaring wat ook vergesel word van die leë houers en bewys van aankoop, waar die beheermaatreël die gebruik van middels insluit.

#### Rol van die Staat

Dis is Nasionale en Provinsiale Veeartsenydienste se mandaat om die Wet toe te pas. Hulle kan 'n eienaar verplig om sy diere te toets indien daar 'n vermoede is dat die diere besmet mag wees. Waar eienaars met verdagte of positiewe diere nie saamwerk nie, kan beamptes 'n bevelskrif beteken op die eienaar wat hom verplig om sekere stappe binne 'n bepaalde tydperk te neem. Hulle het ook die mag om 'n perseel of voertuig te betree en inspeksies uit te voer. Indien 'n eienaar, of iemand wat namens die eienaar optree, die Wet oortree, kan daar kriminele klagtes gelê word teen die betrokke eienaar en persoon. In uiterse omstandighede mag beamptes selfs beheer oor 'n perseel oorneem om siektebeheer uit te oefen, terwyl die kostes steeds vir die eienaar se rekening sal wees. Die staat poog egter altyd eers om die samewerking van die eienaar te kry en sal hierdie stappe slegs neem in hoogs uitsonderlike gevalle.

## Vrywillige toetsprogramme

Die Beesbrucelloseskema (R.2483 of 9 Dec 1988) word tans afgedwing. Daar is tans ook 'n Interim handleiding vir brucellosebeheer beskikbaar, wat deur die Departement Landbou, Bosbou en Visserye opgestel is. Aangesien die Beesbrucellose beheerbeleid tans onder hersiening is, sal verdere besonderhede nie hier bespreek word nie.

#### Samevatting

Dit is belangrik om te onthou dat die bepalings van die Wet daar is om die nasionale kudde te beskerm, maar ook om mense teen ernstige siektes te beskerm. Alle beheermaatreëls is in plek gebring om hierdie doelwitte te bereik en nie om as strafmaatreëls te dien nie. As mens net die beginsels van siektebeheer en siektevoorkoming navolg en alle nodige partye so spoedig moontlik inlig oor die teenwoordigheid van 'n beheerde siekte, behoort dit maklik te wees om binne die raamwerk van die Wet op te tree.

Saamgestel deur: Dr. Trudie Prinsloo Van Der Heever, veearts en regsadviseur (trudie@legalvetservices.co.za)

Uitgereik deur: Brucellosestuurkomitee van die Nationale Dieregesondheidsforum

# When buying cattle this Vendor declaration can help you to minimize risk!

#### **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, Chairman of the Brucellosis Steering committee of the National Animal Health Forum

# 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
NC	OTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers		
Sta	stement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to of	ther inf	ected
flo	cks by law.		
Bu	yers should consult their veterinary advisor before any purchases.		10
Sig	nature Date		
BIA.	Farm:	-	
NA	ME		
_	District:	185	
	VNER OR AUTHORIZED PRESENTATIVE		
The	e use of this declaration is supported by the following organisations:		













# **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 neighbouring 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	
	unboiled, unpasteurised or unsterilised milk on	
	quarantined property	
24	Disinfection of places where infection is a	
	possibility.	
25	Neighbours/ 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	

Websites that are there to help 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 <a href="http://nahf.co.za/stakeholders/">http://nahf.co.za/stakeholders/</a>

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

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. <a href="http://nahf.co.za/category/diseases/brucellosis/">http://nahf.co.za/category/diseases/brucellosis/</a>

Information on other controlled diseases (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 prevelance of diseases in all provinces. Abattoir reports are available. Use the information available to update management programmes

# Landbouweekblad's webpage

#### www.landbou.com

**Vra vir Faffa** 

Click on: Indeks van antwoorde where more than 4 000 answers can be sourced on animal health.

Click on Beeste

Click on Siektes

Click on Brusellose

Stop Brusellose

Gevaar om Beesbrusellose (BBR) deur vendusies en skoue te versprei

Rapportering aan bure of ander eienaars oor die voorkoms van brusellose

Inligting oor brusellose op die NAHF se webblad

Kuddebestuur voor die dekseisoen

Bees Brusellose handleiding

Teenliggaamwaardes om beesbrusellose in koeie te bepaal

Veterinêre Strategie 2016 -2026

'n Dosyn dinge wat jy moet weet van beesbrusellose

Vyf kernfeite wat jy van beesbrusellose (Besmetlike misgeboorte - BM) behoort te weet

Veiligheid van vleis en biltong afkomstig van 'n bees met brusellose

Vervoer van diere uit 'n positiewe brusellose kudde

Beheer van brusellose in 'n beeskudde

Boerderypraktyke wat die gevaar van die voorkoms van brusellose verhoog

Pak brusellose by die horings

Brucellose kan jou lewe verwoes

Brusellose in wild

Bestuur van positiewe besmetlike misgeboorte beeste

Aankoop van beeste wat besmetlike misgeboorte het

Antwoorde oor brusellose

Behandeling van besmetlike misgeboorte

Besmetlike misgeboorte uitbreek in 'n kudde

Gevaar van brusellose onderskat

RB51-inenting teen brusellose in dragtige koeie

Alles oor Besmetlike Misgeboorte (BM)

Kompensasie vir BM en TB positiewe beeste?

Nóg vrae oor besmetlike misgeboorte

Koeie positief getoets vir besmetlike misgeboorte

Vrae, antwoorde oor besmetlike misgeboorte

Brucellose: Wat staan ons te doen?

#### Internal parasite control

www.wormx.info

# **Summary of disease report for December 2018**

121 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 11; Gauteng (G) 9; Limpopo (L) 9; Northwest (NW) 8; Free State (FS) 23; KwaZulu-Natal (KZN) 12; Eastern Cape (EC) 15; Western Cape (WC) 20: Northern Cape (NC) 7; Feedlots (FL) 1 and Laboratories (Lab) 6).

For the detailed report and previous reports go to <a href="www.ruvasa.co.za">www.ruvasa.co.za</a> 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	х	х		х	х	х	х	х	

Resistant roundworms	х				х				
Wireworm	х	х	х		х	х	х	х	
Brown stomach-worm								х	
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm									
Parafilaria				х		х			
Tapeworms	х	х			х		х		
Liver fluke				х	х		х		
Conical fluke	х				х				
Cysticercosis (measles)	х						х	х	
Schistosomiasis (bilharzia)									
Coccidiosis	х	х	х	х	х	х	х	х	
Cryptosporidiosis		х			Х	х	х		

In many parts of South Africa there is a severe drought and the perception is that internal parasites do not occur. Please do not get caught as there may be some wet spots such as leaking water troughs and water piplines, irrigation, wet kraals, etc. on the farm. Water snails, the intermediate hosts of liver fluke and conical fluke worms concentrate as water levels drop and surprise oubreaks of these parasites may occur. Use the five point check to keep on top of what is happening in the flock. For further detail contact your local veterinarian.

http://hulp.landbou.com/kundiges/vra-vir-faffa/vyfpuntplan-en-famacha-stelsel-vir-inwendige-parasietbestuur-in-skape/

https://docs.wixstatic.com/ugd/aded98\_cb447e77eef6450f93a2b23cb0e6b9de.pdf
www.wormx.info

## **Prevention of Cryptosporidiosis**

Since there is no vaccine or registered treatment for *Cryptosporidium*, prevention is the best control method. Animals with a good immune system will generally easily overcome *Cryptosporidium* thus this must 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
Ensure clean pathogen free water sources
Hygiene training of personnel
Consult your veterinarian

# **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	х	х		х	х	х	х	х	
Resistant blue ticks									
Heartwater ticks	х	х		х		х	х		
Brown ear-ticks	х	х			Х	х	х		
Bont-legged ticks	х	х		х	х	х	х		х
Red-legged ticks	х				х			х	
Paralysis ticks					х				
Tampans									
Biting lice								х	
Sucking lice									х
Itch mites					х		х		
Sheep scab									
Mange mites	х				Х				
Nuisance flies	x	х			х	х	х	х	

Midges	х	х	х	х	х		х	
Mosquitoes		х	х	х			х	
Blowflies				х		х	х	
Screw-worm	х	х				х		
Gedoelstia (uitpeuloogsiekte)								
Nasal bot	х			Х				

Blue tick infestations were reported from most provinces. Blue ticks (African and Asiatic blue ticks) are able to transmit 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.

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

Discuss your tick control programme with your veterinarian as controlling ticks early in spring can prevent large outbreaks of ticks in the summer.

Below is a list of diseases transmitted by ticks.

#### 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	х			х	х	х	х	х	
Asiatic red water	х	х	х		Х	х	х	х	
Anaplasmosis	х	х		х	х	х	х	х	
Heartwater	х	х	х	х		х	х		
Lumpy skin disease	х		х	х	х	х	х		
Corridor disease									

Theileriosis					

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

Numerous mortalities were reported!

The keyword is vaccinate your animals! Contact your veterinarian.

Anaplasmosis outbreaks were reported in 7 provinces. Biting flies are probably the main spreader of this disease!

The following tick toxicosis was reported by practices in the provinces:

Tick toxicosis	MP	G	L	NW	FS	KZN	EC	wc	NC
Sweating sickness			х	х	х	х			

This disease is caused by the toxin of the bont legged-tick.

#### 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	х		х	х	х	х	х		
Ephemeral fever (Three-day-stiff sickness)	х	х	х			х		х	
Blue tongue	х				х		х	х	
Rift Valley Fever									
Wesselsbron									
Nagana						х			

As soon as insect populations increase with wet weather conditions, unvaccinated animals with a lack of immunity to insect transmittable diseases, will be the target of these diseases. Analysis of blood samples taken by an international research group in the Free State showed that antibody levels

against Rift Valley Fever were very low although they were vaccinated. Poor cold chain management of vaccine? This is of great concern!

Out of experience from previous years the prevalence of insect transmitted diseases will increase in months to come until the first frost in May. The rains came lat this year.

## Have you vaccinated your animals vaccinated against Rift Valley Fever?

Out of experience I can tell you that when outbreaks of diseases occur, vaccines will be difficult to acquire as many people will be ordering vaccines all at once.

#### Venerial diseases

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

Venereal diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Trichomonosis	х	х	х	х	х	х			
Vibriosis		х	х	х	х		х		
Pizzle disease									
Actinobacillus seminis plus HPA									

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 6 provinces.

Make sure that fences are in tact 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.

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

http://www.rpo.co.za/wp-content/uploads/2016/04/nuutRPO-NERPO-Code-Addendum.pdf

http://www.rpo.co.za/wp-content/uploads/2016/04/nuutRPO-NERPO-Code-Addendum-4-Good-management-practices-and-SOPs-for-cattle-farmers-1.pdf

Consider Trichomonosis as an area disease, farmers should work together to keep areas free from diseases such as trichomonosis, brucellosis 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	х			х	х	х			
Botulism					Х			х	х
Pulpy kidney	х				Х	х	х	х	
Lamb dysentery	х								
Swelled head		х						х	
Red gut (cattle)	х	х				х	х		
Blood gut (sheep)									
Tetanus	х				х	х		х	
Salmonellosis	х			х			х	х	
Klebsiella									
Bovine brucellosis	х		х	х	х				
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)				х	х			х	х
Bovine tuberculosis									
Johne's									
Leptospirosis									
Listeriosis								х	
Pseudomonas									
Fusibacterium necrophorum	х						х		

Septicaemia									
E. coli	х	х	х	х	х	х		х	х
Enzootic abortion								х	х
Lumpy wool		х			х		х		
Bovine dermatophilosis (Senkobo disease)									
Uterine gangrene									
Wooden tongue									
Lumpy jaw								х	

Multiclostridial 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 inactivate vaccine for the first time. Read the packet insert!! Study the table above and determine the risk for animals on your farm. Get advice from your veterinarian on *Cryptosporidium/E. coli* outbreaks in your area and what to do to prevent losses in lambs and calves.

Enzootic abortion contributes to the disappearance of foetuses in sheep and goats scanned pregnant. Vaccinate replacement ewes with the live vaccine before putting them to the ram!

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 predispositional role.

#### 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)	х			х	х				
Rabies (cattle)									

BVD								х
IBR		х						
BRSV							х	
PI3								
Maedi visna virus								
Rotavirus / Coronavirus					х			
Enzootic bovine leucosis (EBL)							х	
Sheep leucosis								
Jaagsiekte							х	
Orf			х	х			х	х
Warts	х	хх	х	Х	х	х	х	х

There is no treatment for viral diseases with the result that animals have to be protected by vaccinations if they 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.

Discuss vaccination programmes and biosecurity measures with your veterinarian.

# **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	х		х		х	х		х	

#### **Protozoal diseases**

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

# **Toxicities**

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	WC	NC
Cardiac glycoside							х		х
Slangkop									
Crotalaria									
Gifblaar									
Gousiekte	х	х							
Cestrum (ink berry)					Х				
Tulip					Х		х		
Cynanchum (bobbejaantou)									
Facial eczema					Х			х	
Lantana	х					х			
Prussic acid							х		
Acacia nilotica									
Senecio									
Cotula nigellifolia (stagger wood)									
Geeldikkop (duwweltjies) and dikoor					Х				
Vermeersiekte									
Hertia pallens (Nenta, krimpsiekte)									
Chrysocoma ciliata (bitterbos)									
Solanum incanum (maldronksiekte)		х							

	1 1						
Gomphocarpus (Asclepias) fruticosus							
(milkweed)							
Heliotropium (potato weed)		х					
Bracken fern							
January bush ( <i>Gnidia polycephalatus</i> )							
January Busir (Ginara polycepharatus)							
Chinkerinchee							
Ceylons rose							
Eucalyptus (bloekom) bark							
Kikuyu						X	
Ryegrass							
Тусычаз							
Ganskweek							
Parada and an analysis and an							
Paspalum staggers							
Phalaris aquaticum (Phalaris staggers)							
Photosensitivity (Turknael, Erodium							
moschatum)							
Photosensitivity (Stellenbosch)							
Thotosensitivity (stelleribosen)							
Lusern							
B. C.							
Mycotoxicosis					Х		
Apergillus		Х					
Aflatoxin							
Diplodiosis							
Lupins				 			
Howavishos							
Harpuisbos							
Syringa berries							
Acorn							

Cycad						
Kraalbos, Geelbos (Galenia africana)						
Radish						
Carrot poisoning						
Onion poisoning						
Bracken fern						
Pollen beetle ( Astylus atromaculatus)						
Water contamination						
Nitrate						
Tannins						
Urea		х	х	х		
Salt						
Wet carcase syndrome						х
Snake bite				х		
Moth cocoons (impaction)						
Blue green algae					х	
Copper						х
Selenium				х		
Zinc						
Fluoride						
Lead	х					
Paraquat						
Phosamine						
Aldicarb					1	

Organophosphate			х		
Zinc phosphide					
Pyrethroid					
Amitraz				х	
Levamisole					
Ivermectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
Ionophor					
Monensin					
Нуро					
Diazinon					
Glyphosate					
Chicken litter					

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

Do have activated charcoal on the farm as the antidote for tulip poisoning! Toxic plants are sometimes eaten by young animals that do not know these plants. Be aware of this situation and know where these plants are growing on the farm.

For further information on treatment of tulp and other toxicities visit:

www.landbou.com

Vra vir Faffa

Klik op Indeks van antwoorde

Klik op Beeste of Skape

Klik op Vergiftigings

Klik op die Opskrifte

Every month there are reports of urea poisoning. Be aware when feeding this product that the correct concentration is used and that the lick does not get wet!

A few cases of Lantana-poisoning were reported.

## Research is being done to control Lantana:

We would like to investigate involvement of your readers and yourself in the development of a National Programme for Management of Lantana similar to the attached National Programme for Management of Parthenium. Our focus would be on the biological control of the species, however, farmers, landowners and communities would be interested in an integrated approach to the management of the species. Please do bear in mind that the rust-fungus will unfortunately not be a 'silver-bullet' as it is likely to impact some subspecies more than others and work better in some micro-climates than others..

Please can we consider how your readers would be able to contribute to the development of a National Programme? One element would be accurate mapping of the distribution of Lantana. If readers could be encouraged to report locations of Lantana then a more comprehensive map of its distribution would be feasible (we need to make sure that this is done in a co-ordinated fashion and using technology that allows for accuracy and ease of data collection (smart phone application to geographically referenced database – which would need to be set up and managed).

Encouraging readers to give input into a National Programme would result in greater support for its implementation. We would need to make sure that this is not too tedious a process.

Encouraging readers to be aware of the biological control agents that are out there already would also be useful. Again this could be reported using photographs and submitting these to a central database.

It would also be good if we could have landowners who would be willing to have 'biological control reserves' on their property. This would mean setting aside land that is infested by Lantana and ensuring that it is not cleared for any reason. The biological control agents would then be allowed to multiply in this area under the 'protection' of the landowner.

I write on behalf of Biological Control researchers at the Agricultural Research Council – Plant Protection Research Institute and at the Centre for Biological Control at Rhodes University.

http://www.ru.ac.za/centreforbiologicalcontrol/

Philip Ivey [mailto:P.Ivey@ru.ac.za]

#### **Nutritional deficiencies**

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

Deficiencies	MP	G	L	NW	FS	KZN	EC	wc	NC
Energy	х			х	х		х	х	х
Protein	х	х		х	х		х		х
Phosphate					х				х
Calcium					х			х	

Nutritional deficiencies were reported. It is important that Ewes and cows receive sufficient supplementation so as to have optimal colostrum quality for their offspring!

Drought conditions are present in many areas!

## **Livestock production during drought - guidelines**

#### HO de Waal dewaalho@ufs.ac.za

In large parts of the central interior available grazing material is scare on veld (natural pasture). Prospects for improvement of the poor grazing conditions in the remaining part of summer and winter are not favourable. In addition to current poor grazing conditions, low levels of water in the soil during spring and early summer will also have a negative effect on veld production and livestock. Crops are already affected negatively and therefore crop residues which are usually used as livestock feed will also not be readily available. The current prevailing situation is not good, but can be managed and the following guidelines may help to prevent mortalities and reduce financial losses:

- Ensure that cash flow is maintained judiciously.
- Safeguard the core breeding livestock. Income must be generated again by these females after the drought.
- Where still possible, provide strategic supplementary feeding on veld.

- Reduce the number of livestock that are dependent on feed sources on the farm by selling surplus animal or by temporary removing them from the veld to a kraal or planted pasture.
- Restrict movement of livestock by confining them to small paddocks with shade trees or other protection from the elements. This provides better control over the quantities of feed provided daily to the animals.
- Ensure that all animals have freely access to clean drinking water.
- Separate the stronger and weaker animals to reduce competition at the feed troughs.
- Prevent thin livestock, especially cattle becoming too emaciated because of poor feeding conditions and lie down.
- Do not feed animals ad lib. over a long period. Ration the feed according to the required production levels, for example survival or maintenance (maintain body mass) or lactation.
- Do not waste feed by throwing it on the ground use appropriate feed troughs or conveyor belts.
- Provide the rationed feeds every second or third day. Most animals will receive enough feed. It will also reduce competition at the feed troughs.

#### What can be fed?

The basis for ruminants is roughage, be it on the veld or in the trough. Coarsely ground roughage is always better utilised (less waste) than in the long form. The energy content can be increased with an appropriate source (e.g. ground maize) and balanced with an appropriate crude protein source. The intake of minerals is then balanced according to the requirements of the animals.

- Feed pellets are merely convenient (transport, handling, less waste) but coarsely ground roughage and properly balanced(discussed above) can adequately meet the requirements of animals.
- Restrict the daily intake of salt (NaCl) for sheep to 5-10 g and cattle to 50-60 g.

#### Core herds/flocks

- Herds/flocks must be grouped according to age and production status. Determine pregnancy in cattle as soon as possible after the current mating season. With sheep and goats, females can be scanned to determine if they carry twins/triplets to adjust their nutrition level.
- In addition to pregnancy, the condition of teeth must also be assessed, especially for older cows and ewes/does. Pregnant cows must still be able to graze until the next calving and specifically be able to wean the unborn calf. Females with worn teeth can still complete their production in a kraal, but this will have a price tag.
- Create an inventory of all available veld and other feed sources. This information is needed to determine the number of animals that can be maintained until after well into the next summer.

- Reduce the number of animals dependent on the feed sources by marketing surplus animals or remove them temporarily from the veld. Note the reproduction record and weaning mass of the progeny of females. In each age class the less productive animals must be culled.
- The principle of "cutting-your-losses" applies and all expenses must be weighed and discounted against expected income over the short to medium term. Caution to sell younger breeding animals at a premium because they are in good condition and pregnant.
- Seek veterinary advice regarding any changes in the internal and external parasite control. General The situation of farmers differ seek professional advice for assistance with strategic planning. When grazing material on veld is scare licks will not help often too much supplementary feeding is provided under such conditions on veld. Determine timely when to remove animals from veld and feed them strategically in small paddocks. Plant material may still be available along roads and can be cut and baled. The cladodes of spineless cactus pears can also be used as a good feed source whole cladodes for cattle and coarsely chopped for sheep and goats. During droughts we cannot be too choosy about the quality of feed sources which can mean the difference between life and death of livestock. If poor quality roughage such as veld grass hay or crop residues or cactus pear cladodes are available, animal nutritionists can use it as basis to formulate diets to meet the minimum requirements of livestock.

#### The ruminant

The plant material selected during drought on poor and dry veld contains little crude protein. The digestive system of ruminants and the symbiosis with microbes in the reticulo-rumen offer opportunity to supplement crude protein with a non-protein nitrogen (NPN) source such as feed grade urea. The microbes in the reticulo-rumen break cellulose (fibre) down and produce new nutrients (volatile fatty acids and microbial protein). The complex four compartment "stomach" develop gradually from the suckling phase (basically still monogastric) to that of a physiological mature ruminant. In younger calves and lambs/kids the reticulo-rumen is still in the process of developing. Therefore, it is better to use natural and higher quality protein sources instead of NPN; bypass protein may also be supplied strategically.

#### Supplementary feeding (licks)

It is important to address some critical questions regarding a supplementary feeding programme:

• What is the aim with the supplementation? Must protein, energy, a combination of protein and energy, or minerals be supplemented? Should animals gain in condition or must dry animals maintain mass (maintenance) or must lactation be supported? Animals in different production phases thus require specific types and quantities of strategic supplementary feeding.

- How can the aim be achieved best? Have the less productive animals been removed to make all grazing available for the remaining livestock? This option is still not used to the best advantage and can make a great contribution to improve the efficacy and also lower the cost of supplementary feeding to the remaining animals.
- Can it be ascertained whether the aim has been reached? Most well-intended programmes to improve animal performance fail in this regard, because the recommended level of supplementation is seldom achieved. Intake of supplementary feeding varies and is affected by feeding space (number of animals/troughs), access to troughs (dominance between animals), level of supplementation and how often the troughs are filled.
- Unless the provision of supplementary feeding is managed, some animals will consume too much while others ingest too little to benefit at all.
- Do not feed animals aimlessly on veld.
- A range of products are available; seek advice from a professional animal nutritionist regarding the options and products to be considered.
- Animals may lose body mass in moderation (10-15%), but then it must take place over a relatively long period and under control of judicious nutrition management.

#### **Veld fires**

- Runaway veld fires or accidental fires can change the current precarious drought situation into a real crisis. An area where veld has burnt is practically in a disaster drought situation.
- Make effective fire breaks, especially along roads, around dwellings and ash dumps. Roads are not good fire breaks because the road surface is smooth and embers are easily blown over it by strong wind. Fire also spread easily through culverts.
- Veld fires suppress grass production for about two seasons. Therefore, veld must rest at least one growing season after an accidental fire and at least one growing season before a planned burning of the veld. In closing Production and reproduction of cattle are usually affected by drought and the get ill easier; the extent will depend on the severity of the drought conditions. Lactating cows, late pregnant heifers and weaners are the most vulnerable because of higher nutrient requirements. A good understanding of these factors is needed for a cost effective management strategy to mitigate the effects of drought on animal production, reproduction and health.

The following general aspects of management may be considered for beef cattle:

• Determine pregnancy of cows and heifers as soon as possible (8 weeks for cows and 6 weeks for heifers) after the bulls have been removed. Non-pregnant animals are identified for culling and the stage of

pregnancy (early, mid and late conception) relative to mating determined.

• This information and body condition can be used to identify cows that may benefit from early weaning

and/or strategic supplementation as well as those to be sold. Informed decision making create

opportunity to lessen the effects of a drought.

• Sheep/goat production can benefit from early weaning of lamb/kids – the ewes/does can be fed at lower

maintenance levels and lambs/kids finished in a feedlot.

• Animal health starts at the mouth; good nutrition is the basis of healthy animals and production. Changes

in management may require adjustments in the programme for the prevention of diseases (inoculation).

Remember, inoculation is a simple action (an injection), while creating immunity is a more complex

process in animals which requires protein (amino acids in the diet) to produce the antibodies. During

droughts and dry seasons the protein content of veld is generally low. Timely inoculation may be

considered to ensure the development of better immunity.

Drastic changes in management such as restricting animals in kraals increases stress and susceptibility

for diseases. The incidence of opportunistic diseases may increase and require inoculation which is usually

required. Specific local conditions and circumstances will dictate any changes in inoculation as well as

external and internal parasite control programmes. Discuss any possible changes in the animal health and

disease control programme with your veterinarian.

• Vitamin status must be evaluated and supplemented. We wish you success with the livestock enterprise.

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Sciences (70) University of the Free State PO Box 339 Bloemfontein South Africa

Vir die Afrikaanse weergawe:

https://www.netwerk24.com/Landbou/Search?query=Veeproduksie+tydens+droogte&ex=1

Maak voorsiening vir droogtes

Vraag

Wat kan ons uit huidige droogte leer wat ons slimmer en meer voorbereid maak vir die volgende een wat kom?

## Antwoord

Die natuurverskynsel van droogte kom siklies en gereeld in Suid-Afrika voor en kan verwag en dus voor beplan word om te sorg dat die nadelige effek daarvan so min as moontlik is.

Hierdie opmerkings is op tipiese seisoenale en eenjarige droogtes van toepassing, daar waar ons kan sorg dat ons broek nie tot op ons knieë sak nie – soms is die droogtes meer jare agtermekaar en ons kan nie effektief daarvoor voorberei nie.

Daar is nie 'n kortpad of wondermiddel nie, diere het daagliks 'n minimum hoeveelheid verteerbare energie nodig om te oorleef (onderhoud) en addisionele energie om te kan produseer – addisionele voer moet dus verskaf word of die getal diere moet verminder word om met beskikbare voer hierdie energie te kan verskaf.

Die herkouer beskik oor 'n unieke verteringstelsel van mikrobevertering en hersirkulasie van stikstof en is in staat om energie uit laegraadse ruvoer (vesel) te ontsluit – hierdie eienskap moet maksimaal benut word deur ook die regte aanvulling (stikstof of proteïen) te verskaf.

Daar is tye van oorvloed en goedkoop voer wanneer ruvoer oor tyd opgeberg moet word en opgeberg moet bly, selfs in tye van gunstige klimaatsomstandighede – ten minste 3 maande se gebruik moet so opgeberg word en beskikbaar bly.

Die hoeveelheid ruvoer wat nodig is om aan die onderhoudsbehoefte van beeste te voldoen, is 10kg ruvoer per GVE (grootvee-eenhede; 450kg LM) per dag – dit beteken 100 ton voer (±400 ronde bale van ±250kg elk) vir 100 dae vir 100 GVE'e.

Hierdie bale moet verkieslik in miedens van 50 ten minste 20m weg van mekaar af, gepak word om die risiko van brand te verlaag.

'n Veiliger keuse om 'n voorraad voer vir sporadiese droogtes op te berg en wat nie 'n brandgevaar inhou nie, is kuilvoer in een of ander vorm – om droogtevoer vir 100 GVE'e vir 100 dae in die vorm van mieliekuilvoer op te berg, sal ±160 ton nat kuilvoer nodig wees wat teen 16kg per dag per GVE verskaf moet word.

Saam met hierdie ruvoer of kuilvoer kan goeie kwaliteit hoendermis (droë braaikuikenmis) opgeberg word, wat hoogs effektief en ekonomies as droogtevoer aangewend kan word – onthou om die diere teen botulisme of lamsiekte in te ent (ten minste twee keer en ten minste twee weke uit mekaar).

Indien hoendermis ook gebruik word, kan 50% van die 10kg ruvoer per dag en 10% van die 16kg kuilvoer met hoendermis vervang word om 'n onderhoudsvoer te maak – hier sal die hoendermis as stikstofbron dien om beide die ruvoer en kuilvoer se tekort aan stikstof aan te vul en die energie te ontsluit – die minimum lek, indien enige, sal dan ook nodig wees.

Geskryf deur: Dr. Kobus Swart, PhD; Pr. Sci. Nat, Dierevoeding. (kobus@mixcure.co.za)

#### 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							х		
Zinc								х	
Selenium					х				х
Magnesium							х		
Manganese									
Vitamin A				х	х			х	
Vitamin B 1								х	

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 status of the herd.

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A 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	х			х	х			х	х
Stillbirths	х				х			х	

Abscesses	х	х		х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis					х				
Blindness	х				х		х		х
Bloat	х				х	х		х	х
Blue udder	х	х			x		х	х	
Diarrhoea	х	х	х	х	х	х		х	х
Epididymitis					х			х	
Eye cancer	х				х		х	х	
Eye infections	х			х	х	х		х	х
Joint ill	х				х	х	х		
Lameness/foot problems	х	х		х	х	х	х	х	
Lung infection	х				х	х	х	х	х
Mastitis	х				х	х		х	
Navel ill	х				х		х	х	
Umbilical hernia									
Red gut (sheep, torsion of gut)									
Rectal prolaps									
Rumen stasis									
Swelsiekte									
Traumatic reticulo-pericarditis	х							х	х
Trauma								х	х
Teeth wear									
Plastic bags (ingestion)									
	1	L	1			l	1	l	

Downer	х		х	х	х	х
Anaphylactic shock						
Vestibular syndrome (middle ear infection)						

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

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

Pneumonia and lameness (foot conditions) are wide spread.

#### **Metabolic diseases**

The following diseases were reported by practices in the provinces:

Metabolic diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Acidosis	х	х	х		х	х		х	
Displaced abomasum						х			
Ketosis (Domsiekte)					х	х	х		х
Milk fever					х	х		х	

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.

Discuss the etiology, 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)	х	х		х	х	х	х	х	х
Endometritis								х	
Hydrops									
Metritis	х			х	х		х	х	

Poor conception	х		х	х	х	х	х	
Retained afterbirth	х		х	х	х		х	
Sheath prolaps	х			х	х			
Uterine prolaps	х		х	х	х		х	х
Vaginal prolaps	х	х		х	х	х	х	
Penis injury								
Orchitis								

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

## **Environmental conditions**

	MP	G	L	NW	FS	KZN	EC	wc	NC
Exposure to cold						х			
Frozen to death									
Heat stress					х	х		х	
Lightning	х				х	х	х		
Electrocution									
Drought		х					х	х	х

## **Other conditions**

	MP	G	L	NW	FS	KZN	EC	WC	NC
Drug residues (milk, meat, liver, kidney etc)									
Preditors	х				х				
Theft		х		х	х				

Trauma (fractures etc)	x	х	х		х	х	
Trauma (veldfires)							

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. http://www.rpo.co.za/BestPractices/English.aspx

#### PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

Precautionary measures are required to protect the herd against diseases acquired because of external contact. The following categories are of concern:

#### 1. DIRECT LIVESTOCK PURCHASES (and own animals returning):

The following should be *verified* before importing new animals into the herd:

How long animals have resided at the purchase or previous location?

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

Was a vaccination program followed (need paper or veterinarian proof). What are the local prevalent external parasites and the routinely implemented control program?

Is a veterinarian supported control program against transmittable diseases followed?

Dates and sufficient number of tests for reproductive diseases of both male and female

Dates and tests for zoonotic diseases

The above should also be verified with the purchaser's own veterinarian.

#### 2. PURCHASES FROM SALES OR SPECULATORS

Purchase only in areas which are not in close proximity to scheduled areas Visually inspect the animals before purchasing for:

- \* brand marks
- \* parasite infestation

#### 3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

Do not allow the truck personnel to get in contact with the farm herd

#### 4. ARRIVAL ON THE FARM

Off-load the livestock to limit stress and to be visually evaluated for any unnatural conditions.

Isolate them from the farm herd and shared facilities for at least 21 days (quarantine)

Retest for diseases of concern if needed, before mixing with the rest of the herd

Process new arrivals within 24 hrs after arrival (unique ID tag brand, dip, dose, vaccinate)

Inspect regularly

#### **5. FEED PURCHASES**

Ensure bales of hay are sourced from areas that are not bordering scheduled areas

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

Ensure feed trucks are also disinfected and cleaned, especially if also used to transport animals to abattoirs

#### 6. VISITORS

Do not allow strangers or their vehicles amongst the livestock Ensure fences are well maintained and preferably jackal and warthog proof

#### 7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

Regularly arrange to let employees be medicated for tape worm and have health check-ups

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

Ensure employees understand the reason behind the implemented bio-security measures to help ensure compliance.

#### **GENERAL AND REPRODUCTION MANAGEMENT**

Record keeping: All animals are individually identified and recorded.

To prove ownership: All animals are marked with the registered brand mark according to the Animal Identification Act, No 6 of 2002.

A defined breeding season is the basis of effective management: The breeding season coincides with the rainy season, i.e. the period when nutritive value of the pasture is at its best.

Sufficient energy reserves in the herd as measured by condition scoring are vital, especially for effective breeding, and when inadequate the herd is supplemented in consultation with a nutritionist: Condition scoring of bulls and cows are regularly done, particularly at the onset of the breeding season and supplemented if necessary.

Bull - cow ratios are maintained: A ratio of 1 to 25 is maintained in every separate herd.

Fertility of breeding bulls: All breeding bulls are tested for mating ability and semen quality before the breeding season.

Sexually transferable diseases: Sheath washes or scrapes on bulls are performed annually.

Diseases that can cause poor conception, abortion or weak calves: Cows are vaccinated against such diseases in consultation with the veterinarian.

Breeding success monitored by a veterinarian: Rectal pregnancy or scan diagnosis is done by the veterinarian 8 weeks after the breeding season.

Twenty percent of cows or more not pregnant: Further tests are done to determine cause of low pregnancy rate.

Culling of non-pregnant cows: Non-pregnant cows are removed from the herd and considered a necessary bonus to supporting herd income.

#### **HERD HEALTH AND BIO-SECURITY**

Maintenance of herd health is key to a successful enterprise: A veterinarian should visit the farm biannually at least.

Calf mortality before 3 months of age is an important reason for poor weaning percentage: Good management practices are applied to limit early calf deaths.

Some diseases and parasites (internal and external) are more often encountered in specific areas: Annual vaccinations and a parasite control program should be applied according to regional requirements and in liaison with the veterinarian.

Farmers selling weaned calves to feedlots may want to have a market advantage compared to others: A specific vaccination program is applied before weaning for that purpose.

Herds may be at risk of being exposed to CA and TB: The herd is tested annually for CA and all heifers are vaccinated against CA between 4 and 8 months of age with an efficient, approved remedy. The herd is tested at least every 5 years for TB

Precautionary measures are required to prevent diseases being imported into the herd: A quarantine program to keep incoming animals separate is followed. All incoming animals have a suitable certificate of negative test results or are of a certified clean, closed herd.

Stock remedies and medicines should be registered, correctly stored and used before the transpire date: All medicines and stock remedies are registered, stored and applied according to prescription.

Prescribed medicines with a specific application are under the control of the veterinary profession: All prescription medicines are obtained and applied under prescription from a veterinarian.

## Practices that had nothing to report

Bathurst – Dr. Jane Pistorius
Cape Town – Dr. Sophette Gers
Kaapmuiden – Dr. Silke Pfitzer
Kuruman – Dr. Lea Shuda
Lichtenburg – Dr. Nelmarie Rall
Nigel – Cindy van der Westhuizen
Pretoria – Dr. Emily Mitchell
Stellenbosch (Elsenburg) – Dr. Annelie Cloete
Tulbagh – Dr. Dirk Trigaardt
Tzaneen – Drs. Van Der Berg and Cordier
Vaalwater – Dr. Annemieke Müller
Vanderbijlpark – Dr. Kobus Kok
Vryburg – Dr. Jurie Kritzinger
Wellington – Dr. William van Zyl

### **Ostriches**

## Western Cape

Oudtshoorn

Tapeworms	2

•	2 Clostridium perfringens, heat leads to varibale feed intake and clostridial overgrowth
	3 Diarrhoea, high nutrient spill over into caeca and large intestines – overgrowth <i>Clostridium</i> and normal flora. Poor antibiotic selection – <i>E. coli</i> overgrowth

## **Equines**

## Northern Cape Colesberg

Rhodococcus pneumonia – Foals Biliary – horses Coital exanthema – Few race horses

#### Game

## Gauteng

#### **Pretoria**

Intestinal roundworms – 1 Resistant roundworms – 2 Selenium deficiency – 1 Dystocia – 1

Opthalmia – 1

Lameness - 1

### North West Klerksdorp

Intestinal roundworms - 1

## **Free State**

Vrede

Rabies – Meerkat

## **Western Cape**

Oudtshoorn

Coccidiosis - 2

#### Swine

## Gauteng Onderstepoort

# Monthly report on Livestock and Wildlife isolations for December 2018 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

December was a quiet month, after a very busy year, and there is little of interest to report this month.

It is generally difficult to make a positive diagnosis in abortion cases, but there were two in cattle this month. One was due to *Campylobacter fetus*, and the other, *Salmonella* Dublin. *Salmonella* Dublin is carried by cattle, often after calfhood infection, and the abortion caused by it is usually unexpected. Proper vaccination of the whole herd usually controls it well.

Another unexpected finding was a case of gangrenous myositis due to Clostridium sordellii.

Trueperella pyogenes was associated with arthritis in one case, and pneumonia in another. Klebsiella pneumoniae caused mastitis in a cow where the milking shed abutted onto the horse stables. Klebsiella infections are often associated with wood shavings. The horses were kept on shavings, which had spread into the shed.

Enteritis in calves was mostly caused by *E. coli* [12] together with *Cryptosporidium* in one case. The same was true for lambs; *E. coli* [8] and *Cryptosporidium* [1]. It is very difficult to see *Cryptosporidium* on direct smears in cases where Halocur is used on the farm. Halocur damages Cryptosporidium, so that the usual typical shape can't be seen when stained. The RuVASA guidelines for diagnosis should be followed. Histopathology on intestinal samples is the gold standard.

*E. coli* associated with ruminant enteritis are usually MDR or XDR strains [MDR – Multiple Drug Resistance is defined as being resistant to 3 or more classes of antibiotics. XDR – Extreme Drug Resistance is defined as being resistant to all suitable antibiotics for that condition in that type of animal] because many antibiotics have been used before samples are submitted to a laboratory. Both MDR and XDR strains can be a zoonotic threat.

*Mannheimia haemolytica* caused septicaemia in a sheep.

Pneumonia in pigs was caused by Bordetella bronchiseptica [1] and Pseudomonas sp. [1].

## Feedlot report received from Drs. Shaun Morris and Eben du Preez for December 2018 (edupreez1@telkomsa.net)

Condition	Comments and Specie
Wireworm	O 3
	Especially in poor
	condition sheep
Lumpy skin disease	В 3
	Severe infection
Drought	В 3
	Calves in poor condition from drought areas

## Monthly report for December 2018 from Dr R D Last (BVSc; M.Med.Vet(Path);

## MRCVS)

## Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

LIVESTOCK DISEASE SURVEILANCE						
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION			
Bovine, Calf	Pasteurella multocida	1	Dundee, KZN			

	WILDLIFE DISEASE SURVEILANCE								
WILDLIFE SPECIES	DISEASE AGENT	NO. CASES	LOCATION						
Springbok, Juvenile	Thymic hemorrhage (rodenticide?)	1	Krugersdorp, Gauteng						
Buffalo, calf	Coccidiosis	1	Grahamstown, E. Cape						
Green turtle, Adult	Spirorchidosis (blood fluke)	1	Durban, KZN						
Albino Shellless turtle	Nannizziopsiaceae spp fungal shell infection	1	Dubai						

## Monthly report on Livestock and Wildlife isolations for December 2018 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Condition	Comments and Specie
Blue ticks	E 2
Bont tick	B, E 1
Red -legged ticks	E 1
Salmonellosis - abortion	B 1
E. coli	B 2
Cryptosporidiosis	B 2
Diarrhoea (bacterial enteritis)	B, O 2
Lungs	B 1
Abortion	B 1
Cardiac glycoside toxicity	B 1
Senecio toxicity	B 1



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

No report received for December 2019

<b>Table of Contents</b>	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Tape Worms, Parafilaria, Liver fluke, Conical Flukes, Cysticercosis
External Parasites	Blue ticks, Heartwater (Bont) ticks, Brown ear-ticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes, Itch mite
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tongue, Nagana
Venereal Diseases	Trichomonosis, Vibriosis
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Redgut (cattle), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, E.coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Fusibacterium necrophorum, Listeriosis, Other
Protozoal diseases (other)	Coccidiosis, Cryptosporidium
<u>Fungal diseases</u>	Ringworm
<u>Viral Diseases (other)</u>	BMC, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), BRSV (Bovine respiratory syncytial virus), Enzootic Bovine Leucosis (EBL), Jaagsiekte, Orf, Warts, Rota virus, Other viral disease not listed
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, Cestrum, Facial eczema, Geeldikkop/Dikoor, Gousiekte, Kikuyu poisoning, Lantana, Prussic acid poisoning, Tulip Poisoning, Mycotoxicosis, Other
<u>Poisonings</u>	<u>Urea Poisoning</u> , <u>Snake Bite</u> , <u>Blue-green algae</u> , <u>Copper Poisoning</u> , <u>Chemical products</u> , <u>Other</u>
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency
<u>Micro Nutritional Problems</u>	Copper deficiency, Zinc deficiency, Selenium deficiency, Magnesium deficiency, Vitamin A deficiency, Vitamin B deficiency
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, 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, Traumatic Reticulopericarditis, Other
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever

Reproducti	ve diseases		<u>Dystocia (Difficult Births)</u> , <u>Endometritis</u> , <u>Metritis</u> , <u>Poor conception</u> , <u>Retained</u> afterbirth, <u>Sheath Prolaps</u> , <u>Uterus prolaps</u> , <u>Vaginal (Cervical) prolaps</u>						
Climatical (	Cold expos	Cold exposure, Drought, Heat stress, Lightning							
Non specifi	<u>c diseases</u>		Preditors, 9	Sabotatio	n - Thef	t, <u>Trauma</u>			
Internal	<b>Parasites</b>								
Roundwo	orms in gene	eral							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.2 (5)	2.0 (2)		1.0 (1)	2.3 (6)	2.0 (2)	1.3 (4)	1.8 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)					2.0(1)			
Sheep	1.5 (2)	2.0 (2)		1.0 (1)	2.3 (6)		1.3 (3)	2.0 (2)	
Goat	1.0 (2)					2.0(1)	1.0(1)	1.5 (2)	
Beef: 1, Shee	four Diereklin		ıl						
Goat: 1									
Standerton,	Econovet								
Sheep: 2									
Gauteng	. Damefantain	Diarahaa	-:I						
Sheep: 1	, Bapsfontein	Dierenos	pitaai						
	ima Veterinar	v Consult	ina Rooms						
Sheep: 3	a voterman	, consuit	9 1.001113						
North West									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Sheep: 1									
Free State									
	in, Dr Stephan	Wessels							
Sheep: 3									
	Greylingsrust	Dierespr	eekkamer						
Sheep: 2	aaalan Diawald	linial.							
Sheep: 2	ocolan Dierek	iiniek							
	Kroonstad Die	rehosnita	al						
Sheep: 2	Jonistau Die	. c.iospica	wi .						
	Ladybrand Die	erekliniek							
Sheep: 3	,								
-	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 2									

Kwazulu-Na									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2, Goat									
Eastern Cap									
Graaff-Rein	et, Camdeboo	Veterina	y Clinic						
Sheep: 1, Go									
<b>Graaff-Rein</b>	et, Graaff Reii	net Veteri	nary Clinic	:					
Sheep: 2									
Humansdor	p, Humansdor	p Veterina	ary Clinic						
Sheep: 1									
Western Ca	pe								
Beaufort W	est, Beaufort \	West State	e Vet						
Goat: 1									
	bankruptworm i		ts at feed tr	oughs					
	ledon Dierekli	iniek							
Sheep: 2									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 2									
	y, Dr Otto Krie	k							
Goat: 2									
Docietani	Round Wo	K4100 (0							
Resistant	Rouna wo	rms							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.5 (2)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Sheep	1.0 (1)				2.5 (2)				
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Sheep: 1									
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Sheep: 3									
	Ladybrand Die	erekliniek							
Sheep: 2									
Wirewori	n								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (1)	2.0 (1)		2.5 (6)	1.0 (1)	1.0 (1)	1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	LO cases
Beef	2.0(1)							1.0(1)	
	(1)							1.0 (1)	

Sheep	2.0 (1)		2.0 (1)		2.5				
Goat		1.0 (1)	1 1		(6)	1.0 (1)	1.0(1)		
	-	1.0 (1)				1.0 (1)	1.0 (1)		
Mpumalang		-1-1::-1-							
	Longtom Dier	ekiiniek							
Beef: 2	<b>-</b>								
Standerton,	, Econovet								
Sheep: 2									
Gauteng			_						
	raal, Themba <i>l</i>	Animal Cli	nic						
Goat: 1									
Limpopo									
	louberg Diere	kliniek							
Sheep: 2									
2 Cases									
Free State									
	, Greylingsrust	: Dierespr	eekkamer						
Sheep: 2									
	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 2									
Frankfort, F	rankfort Diere	kliniek							
Sheep: 3									
Kroonstad,	<b>Kroonstad Die</b>	rehospita	al						
Sheep: 3									
Ladybrand,	<b>Ladybrand Die</b>	erekliniek							
Sheep: 3									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap	)					
Sheep: 2									
Kwazulu-Na	atal								
Camperdow	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Eastern Cap	Эе								
	et, Camdeboo	Veterina	v Clinic						
Goat: 1	,		,						
Western Ca	ne								
	y, Groenkloof I	Diereklini	ek						
Beef: 1	y, crocingor.	DICI CIAIIII	O.X						
Deci. 1									
<b>Brown st</b>	omach-wor	m							^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Average								2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								2.0 (1)	
Western Ca									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 2									
Tape Wo	rms								^
Tape Wo									

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.5 (2)	1.0 (1)			2.0 (4)		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											
Sheep	1.5 (2)	1.0 (1)			2.0 (4)		2.0 (1)				
Goat							2.0(1)				
Mpumalang	a										
	a four Diereklin	iek									
Sheep: 1	ioui Dicioniii	IOIX									
	ape Cross Vol	ksrust Die	erehospita	al							
Sheep: 2	pc 5. 555 FOI		JJ.								
Gauteng											
	, Bapsfontein	Dierehosi	pitaal								
Sheep: 1	,	c. c. c. c.									
Free State											
	in, Dr Stephan	Wessels									
Sheep: 3	, соор										
•	ocolan Dierek	liniek									
Sheep: 1											
	, Hertzogville	Diereklin	iek								
Sheep: 2											
•	gepoort Dierel	kliniek Ve	nnootskap								
Sheep: 2											
Eastern Cap	e										
Graaff-Rein	et, Camdeboo	Veterinar	y Clinic								
Goat: 2											
Witelsbos, \	<b>Nitelsbos Vete</b>	erinary Co	nsulting R	ooms							
Sheep: 2											
Parafilari	ia ia								_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average				2.5 (2)		1.5 (2)					
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef				2.5 (2)		1.5 (2)					
North West											
	, Bergbos Dier	ekliniek									
Kustenbura	,										
Beef: 2	a Dierekliniek										
Beef: 2 Stella, Stella	a Dierekliniek										
Beef: 2											
Beef: 2 Stella, Stella Beef: 3 Kwazulu-Na			ic								

Beef: 1	ngola Animal	Clinic							
Liver fluk	e								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	2.0 (1)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef				2.0 (1)	2.0 (1)	2.0 (1)			
North West									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 2									
Free State									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	nowe Veterina	ry Hospita	al						
Beef: 2									
Animals boug	ht in								
Conical Fl	lukes								_
PROVINCE		Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
	Mpumalanga		popo	West	State	Natal	Cape	Cape	Cape
	1.0 (1)			West	2.0 (1)	Natal	Cape	Cape	
<b>Average</b> Level of impo					2.0 (1)				Cape
Average	1.0 (1)				2.0 (1)				Cape
<b>Average</b> Level of imporeported	1.0 (1) ortance scale: 1				2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balfour,	1.0 (1) ortance scale: 1	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalange Balfour, Balf Beef: 1	1.0 (1) ortance scale: 1 1.0 (1)	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balf Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  a  four Diereklin	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balf Beef: 1 Free State Winburg, W	1.0 (1) ortance scale: 1 1.0 (1)	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balf Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  a  four Diereklin	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balf Beef: 1 Free State Winburg, W	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklini inburg Dierek	= one case			2.0 (1) e case b				Cape
Average  Level of impore reported  Beef  Mpumalanga Balfour, Balf Beef: 1 Free State Winburg,	1.0 (1)  ortance scale: 1  1.0 (1)  a four Diereklini inburg Dierek	= one case	e, 2 = more		2.0 (1) e case b				Cape

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)			
Goat	( )								2.0 (1)		
Mpumalang	a										
Nelspruit, Nelspruit Animal Hospital											
Beef: 3											
Western Cape											
George, Geo	George, George Animal Hospital										
Beef: 3											
<b>Northern Ca</b>	аре										
Postmasbur	rg, Postmasbu	rg Dierek	liniek								
Goat: 2											
<b>External</b>	<b>Parasites</b>										
Blue ticks	S								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (4)	2.0 (1)		1.7 (3)	2.2 (9)	2.6 (5)	1.5 (2)	2.7 (3)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases		
Beef	2.3 (4)	2.0 (1)		2.0 (2)	2.2 (5)	2.6 (5)	1.0 (1)	3.0 (1)			
Dairy					2.0 (1)		2.0 (1)	2.5 (2)			
Sheep				1.0 (1)	2.5 (2)						
Goat					2.0 (1)						
Mpumalang	a										
	four Diereklin	iek									
Beef: 2											
	irootvlei Diere	kliniek									
Beef: 2											
	lelspruit Anim	al Hospita	I								
Beef: 3	F										
Standerton, Beef: 2	conovet										
Gauteng											
	rg, Magaliesbu	ıra: Dr Pv	an leffrey								
Beef: 2	ıy, mayancsut	ag, Di Ky	an Jeniey								
North West											
	Klerksdorp Di	erehospit	aal								
Beef: 1, Shee		pit									
	a Dierekliniek										

Beef: 3									
Free State									
	Dosvrystaat Di	iara Drodi	ıkta						
	y: 2, Sheep: 2, (		INCC						
	Hoopstad Dier								
Beef: 3, Shee		CKIIIICK							
	Kroonstad Die	rehosnita	al						
Beef: 3	KIOOIIStaa Die	renospita	iai						
	nel Veterinary	Clinic							
Beef: 1	ner vetermary	Cillino							
	gepoort Diere	kliniek Ve	nnootskar	<b>.</b>					
Beef: 2	gepoort Diere	KIIIIICK VC	mootskap						
Kwazulu-Na	atal								
	ergville Veteri	inary Clini	С						
Beef: 3		,							
	dumeni Herd l	health							
Beef: 3									
Mtubatuba,	Mtubatuba A	nimal Clin	ic						
Beef: 2									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 2			J - 1						
Vryheid, Vry	yheid Privaat \	Veeartse							
Beef: 3									
Eastern Cap	e								
_	Alexandria Pl	atteland S	Spreekkan	ner					
Dairy: 2									
Humansdor	p, Humansdor	p Veterin	ary Clinic						
Beef: 1									
Western Ca	ре								
George, Geo	orge Animal H	ospital							
Beef: 3, Dairy	y: 3								
Heidelberg	(WC), Heidelb	erg Diere	kliniek						
Dairy: 2									
Hoortweet	tor (Pont) ti	oko							_
пеагсмас	ter (Bont) ti	ICKS							
				No atla	F	V	F	Washama	No atla a sua
<b>PROVINCE</b>	N4			North	Free				
	mpumaianga	Gauteng	Limpopo			Kwazulu-	Eastern	Western	Northern
	мритана	Gauteng	Limpopo	West	State		Cape	Cape	Cape
			Limpopo	West	State	Natal	Cape	_	_
Average	3.0 (2)	1.8 (4)	Limpopo		State			_	_
	3.0 (2)	1.8 (4)		West 3.0 (1)	State	Natal 1.9 (7)	1.0 (1)	Cape	Cape
Level of impo		1.8 (4)		West 3.0 (1)	State	Natal 1.9 (7)	1.0 (1)	Cape	Cape
	3.0 (2)	1.8 (4)		3.0 (1) than on	<b>State</b> e case b	Natal 1.9 (7)	1.0 (1)	Cape	Cape
Level of impo	3.0 (2) ortance scale: 1	1.8 (4) = one case		3.0 (1) than on	<b>State</b> e case b	Natal 1.9 (7)	1.0 (1)	Cape	Cape
Level of imporeported  Beef	3.0 (2)	1.8 (4)		West 3.0 (1)	<b>State</b> e case b	Natal 1.9 (7) ut less than t	1.0 (1) en and 3 =	Cape	Cape
Level of imporeported  Beef  Dairy	3.0 (2) ortance scale: 1	1.8 (4) = one case 1.5 (2)		3.0 (1) than on	<b>State</b> e case b	1.9 (7) ut less than t	1.0 (1)	Cape	Cape
Level of imporeported  Beef	3.0 (2) ortance scale: 1	1.8 (4) = one case		3.0 (1) than on	<b>State</b> e case b	Natal 1.9 (7) ut less than t	1.0 (1) en and 3 =	Cape	Cape
Level of imporeported  Beef  Dairy	3.0 (2) ortance scale: 1	1.8 (4) = one case 1.5 (2)		3.0 (1) than on	<b>State</b> e case b	1.9 (7) ut less than t	1.0 (1) en and 3 =	Cape	Cape
Level of imporeported  Beef  Dairy Sheep  Goat	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1)		3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape
Level of imporeported  Beef Dairy Sheep Goat Mpumalang	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1) 2.0 (1)	e, 2 = more	3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape
Level of imporeported  Beef Dairy Sheep Goat Mpumalang	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1) 2.0 (1)	e, 2 = more	3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape
Level of impore reported  Beef Dairy Sheep Goat Mpumalang Middelburg Beef: 3	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1) 2.0 (1) Dierehosp	e, 2 = more	3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape
Level of impore reported  Beef Dairy Sheep Goat Mpumalang Middelburg Beef: 3	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1) 2.0 (1) Dierehosp	e, 2 = more	3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape
Level of impore reported  Beef Dairy Sheep Goat Mpumalang Middelburg Beef: 3 Nelspruit, N	3.0 (2) ortance scale: 1 3.0 (2)	1.8 (4) = one case 1.5 (2) 2.0 (1) 2.0 (1) Dierehosp	e, 2 = more	3.0 (1) than on	<b>State</b> e case b	Natal  1.9 (7)  ut less than t  2.3 (4)  1.0 (1)	1.0 (1) en and 3 =	Cape	Cape

	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
	raal, Themba	Animal Cli	nic						
	ep: 2, Goat: 2								
North West									
	a Dierekliniek								
Beef: 3									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
•	dumeni Herd l	health							
Beef: 3									
	Mtubatuba A	nimal Clin	ic						
Beef: 3, Goat									
	ongola Animal	Clinic							
	ep: 1, Goat: 1								
Eastern Cap									
	Alexandria Pl	atteland S	preekkam	ner					
Dairy: 1									
Brown ea	ar-ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	2.0 (1)			1.0 (1)	2.7 (3)	1.0 (1)		
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)	2.0 (1)			1.0 (1)	2.7 (3)	1.0 (1)		
Mpumalang	ja								
Piet Retief,	Pets Vet Hosp	ital							
Beef: 3									
Gauteng									
Bronkhorst	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
Free State									
Memel, Mei	mel Veterinary	Clinic							
Beef: 1	-								
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Dundee, En	dumeni Herd l	health							
Beef: 2	- 1								
	yheid Privaat \	<b>Veeartse</b>							
Beef: 3									
Eastern Cap	ре								
_	p, Humansdor	p Veterina	ary Clinic						
Beef: 1	.,		,						

Bont-legged ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	2.0 (1)		3.0 (5)	2.8 (10)	3.0 (2)	3.0 (4)		2.0 (3)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (2)	2.0 (1)		3.0 (4)	2.7 (7)	3.0 (2)	3.0 (1)		2.0 (1)
Dairy					3.0 (1)		3.0 (1)		
Sheep				3.0 (1)	3.0 (2)		3.0 (1)		2.0 (1)
Goat							3.0 (1)		2.0(1)
Mpumalang	а								
	four Diereklin	iek							
Beef: 1									
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 1									
Gauteng									
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2									
<b>North West</b>									
	Christiana Die	rehospita	al						
Beef: 3									
	Klerksdorp Di	erehospit	aal						
Beef: 3, Shee	•								
Beef: 3	stad, Leeudori	ngstad Di	erekliniek						
Severe necros									
Beef: 3	a Dierekliniek								
Free State									
	in, Dr Stephan	Wessels							
Beef: 3	, 2. Scopiidii								
	rankfort Diere	kliniek							
Beef: 3									
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 3, Shee	p: 3								
	Kroonstad Die	rehospita	al						
	/: 3, Sheep: 3								
	nel Veterinary	Clinic							
Beef: 2									
	on, Viljoenskro	oon Diere	kliniek						
Beef: 2	inhuna Dian-I	limini-							
	inburg Dierek	ііпіек							
Beef: 3	tal								
Kwazulu-Na	itai ergville Veteri	nany Clini	_						
Boof: 3	ergyme vetern	iiai y Ciiiii							

Beef: 3

Vryheid, Vryheid Privaat Veeartse

Beef: 3									
Eastern Cap	е								
Steynsburg,	Steynsburg D	Dierehospi	itaal						
Beef: 3, Dairy	: 3, Sheep: 3, C	Goat: 3							
Northern Ca									
	g, Postmasbu	rg Dierek	liniek						
Beef: 2, Shee	p: 2, Goat: 2								
Red-legg	ed ticks								^
neu legg									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)			3.0 (1)	2.4 (7)			3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reporteu									
Beef	1.0(1)			3.0 (1)	2.5 (4)				
Dairy					2.0 (1)				
Sheep	1.0 (1)				2.5 (2)			3.0 (1)	
Goat	1.0(1)								
Mpumalang									
	four Diereklin	iek							
Beef: 1, Shee									
North West									
	Christiana Die	rehospita	al						
Beef: 3									
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
Beef: 2, Dairy	Kroonstad Die	enospita	al						
	: Z nel Veterinary	Clinic							
Beef: 2, Shee		CIIIIC							
	ր. Հ inburg Dierek	liniek							
Beef: 3									
Western Ca	ре								
	, Groenkloof I	Diereklini	ek						
Sheep: 3									
Paralysis	ticks								^
PROVINCE	Mpumalanga	Gauteng	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 2.5 Sheep **(2) Free State** Frankfort, Frankfort Dierekliniek Sheep: 3 Vrede, Vrede Dierehospitaal Sheep: 2 Two farms with cases **Biting lice (red lice)** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0(1)**Average** 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)**Western Cape** Stellenbosch, Stellenbosch Animal Hospital Goat: 1 **Sucking lice (blue lice)** Kwazulu-Western **Northern** North Free **Eastern PROVINCE Mpumalanga Gauteng Limpopo** State West Natal Cape Cape 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 Goat 3.0 (1) **Northern Cape** Postmasburg, Postmasburg Dierekliniek Goat: 3 **Mange Mites** North **Free** Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 3.0 1.0(1)**Average** (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)				
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Sarcoptes									
Free State									
	inburg Dierek	liniek							
Beef: 3									
Nuisance	Flies								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (4)	2.0 (1)			2.6 (5)	2.4 (5)	2.0 (1)	2.7 (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)			2.3 (3)	2.3 (3)		2.0 (1)	
Dairy	Dairy 3.0 (1) 2.0 (1) 3.0 (2)								
Sheep 2.0 (1) 3.0 (1) 2.0 (1)									
Goat	2.0 (1)								
Mpumalang									
	four Diereklin	iek							
Beef: 2, Shee		al Uaanita							
Reef: 3	lelspruit Anima	ai Hospita							
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 2	,								
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 2, Dairy		Clierie							
Memel, Men Beef: 2	nel Veterinary	Clinic							
Kwazulu-Na	atal								
	ıcaı ergville Veteri	nary Clini	c						
Beef: 3	g	, Jiiiii	_						
	dumeni Herd l	nealth							
Beef: 2, Dairy	/: 3								
Underberg,	<b>Underberg Ve</b>	terinary S	urgery						
Beef: 2, Shee									
Eastern Cap									
-	Alexandria Pla	atteland S	preekkam	ner					
Dairy: 2									

#### **Western Cape** Malmesbury, Dr Otto Kriek Fly control should have been started some time back already. Stable flies are a very severe problem on more than one farm where sufficient control measures are lacking. Other farms seem to have the fly situation well under **Oudtshoorn, Ostrimed** Beef: 2 Swellendam, Swellendam Dierehospitaal Dairy: 3 **Blowflies** Kwazulu-Eastern Western Northern North Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.7 1.0(1)**Average** 2.0(1)(3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 Beef 1.0(1)(1) 2.5 2.0(1)Sheep (2) **Free State Hoopstad, Hoopstad Dierekliniek** Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Winburg, Winburg Dierekliniek Beef: 3 **Eastern Cape Humansdorp, Humansdorp Veterinary Clinic** Beef: 1 **Western Cape** Heidelberg (WC), Heidelberg Dierekliniek Sheep: 2 **Screw-worm** Kwazulu-**Eastern** Western **Northern** North Free **PROVINCE Mpumalanga Gauteng Limpopo West State Natal** Cape Cape Cape **Average** 3.0 (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 Beef 2.0(1)2.0(1)3.0(1)

Mpumalanga

**Nelspruit, Nelspruit Animal Hospital** 

Beef: 3

Gauteng									
	g, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2									
Eastern Cap		OI: .:	_						
<b>Adeiaide, Ad</b> Beef: 2	lelaide Veteri	nary Clinic	3						
seer: 2									
Nasal bot	larvae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (2)				
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (1)				2.0 (2)				
Mpumalanga	a								
Standerton,	Econovet								
Sheep: 2									
Free State									
	and Dierehos	pitaal							
Sheep: 2									
	jepoort Dierel	kliniek Ve	nnootskap	)					
Sheep: 2									
Midges									^
PROVINCE				North	Free	Kwazulu-	Eastern	Western	Northern
	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape
Average	Mpumalanga 2.3 (4)	2.0 (2)	Limpopo		State 2.0				
Average		2.0 (2)		West 2.5 (2)	2.0 (2)	Natal 2.0 (1)	Cape	2.0 (1)	Cape
<b>Average</b> Level of impo	2.3 (4)	2.0 (2)		West 2.5 (2)	2.0 (2) e case b	Natal 2.0 (1)	Cape	2.0 (1)	Cape
<b>Average</b> Level of imporeported	2.3 (4) ortance scale: 1	2.0 (2) = one case		2.5 (2) than on	2.0 (2) e case b	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape
Average  Level of impo reported  Beef	2.3 (4)  ortance scale: 1  2.5 (2)  2.0 (1)	2.0 (2) = one case 2.0 (1)		2.5 (2) than on	2.0 (2) e case b 2.0 (1) 2.0	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalanga Balfour, Balf Beef: 2, Sheep  Nelspruit, No	2.3 (4)  ortance scale: 1  2.5 (2)  2.0 (1)  2.0 (1)  a  four Diereklin	2.0 (2) = one case 2.0 (1)  2.0 (1)	e, 2 = more	2.5 (2) than on	2.0 (2) e case b 2.0 (1) 2.0	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalanga Balfour, Balf Beef: 2, Sheep Nelspruit, No	2.3 (4)  ortance scale: 1  2.5 (2)  2.0 (1)  2.0 (1)  a  four Diereklin p: 2, Goat: 2	2.0 (2) = one case 2.0 (1)  2.0 (1)	e, 2 = more	2.5 (2) than on	2.0 (2) e case b 2.0 (1) 2.0	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalanga Balfour, Balf Beef: 2, Sheep Nelspruit, Nobeef: 3 Gauteng	2.3 (4)  ortance scale: 1  2.5 (2)  2.0 (1)  2.0 (1)  a  four Diereklin p: 2, Goat: 2 elspruit Anima	2.0 (2) = one case 2.0 (1)  2.0 (1)  iek al Hospita	e, 2 = more	2.5 (2) than on	2.0 (2) e case b 2.0 (1) 2.0	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalanga Balfour, Balf Beef: 2, Sheep Nelspruit, Nobeef: 3 Gauteng	2.3 (4)  ortance scale: 1  2.5 (2)  2.0 (1)  2.0 (1)  a  four Diereklin p: 2, Goat: 2 elspruit Anima  aal, Themba	2.0 (2) = one case 2.0 (1)  2.0 (1)  iek al Hospita	e, 2 = more	2.5 (2) than on	2.0 (2) e case b 2.0 (1) 2.0	Natal  2.0 (1)  ut less than to	Cape	2.0 (1) more than	Cape

Average  2.0 (3)  3.0 (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 coreported  Beef  2.0 (1)  3.0 (1)  2.0 (1)  3.0 (1)  2.0 (1)  Sheep  2.0 (1)  2.0 (1)  3.0 (1)  2.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  4.0 (1)  5heep  2.0 (1)  Goat  2.0 (1)  Goat  2.0 (1)	Alorthern Cape
Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Free State Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape  2.0 (3)  3.0 (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 or reported  Beef  2.0 (1)  3.0 (1)  2.0 (1)  Sheep  2.0 (1)  Goat  2.0 (1)  Gauteng Hammanskraal, Themba Animal Clinic	Cape
Beef: 3 Free State Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2  Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Beef: 3 Free State Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2  Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2 Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Beef: 2, Sheep: 2  Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Beef: 2, Sheep: 2  Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Respective   Res	Cape
Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Beef: 2  Western Cape Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	Cape
Oudtshoorn, Ostrimed Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape  Average 2.0 (3) 3.0 (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 or reported  Beef 2.0 (1) 3.0 (1) 2.0 (1)  Sheep 2.0 (1) 2.0 (1)  Goat 2.0 (1)  Gauteng Hammanskraal, Themba Animal Clinic	Cape
Beef: 2  Mosquitoes  PROVINCE Mpumalanga Gauteng Limpopo West State State Kwazulu- Cape Cape Cape  Average 2.0 (3) 3.0 (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 or reported  Beef 2.0 (1) 3.0 (1) 2.0 (1)  Sheep 2.0 (1) 2.0 (1)  Goat 2.0 (1)  Gauteng Hammanskraal, Themba Animal Clinic	Cape
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Cape Cape  Average 2.0 (3) 3.0 (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 cape cape cape cape cape cape cape cape	Cape
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape  2.0 (3)  3.0 (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 creported  8eef 2.0 (1)  Sheep 2.0 (1)  Goat 2.0 (1)  Gauteng Hammanskraal, Themba Animal Clinic	Cape
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape  2.0 (3)  3.0 (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 creported  8eef  2.0 (1)  3.0 (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 creported  8eef  2.0 (1)  3.0 (1) 2.0 (1)  5heep  2.0 (1)  Goat  2.0 (1)  Gauteng  Hammanskraal, Themba Animal Clinic	Cape
Average  2.0 (3)  3.0 (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 coreported  Beef  2.0 (1)  3.0 (1)  2.0 (2)  2.0 (1)  3.0 (1)  2.0 (1)  Sheep  2.0 (1)  2.0 (1)  3.0 (1)  2.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)	Cape
Average       2.0 (3)       3.0 (1)       (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 or reported         Beef       2.0 (1)       3.0 (1)       2.0 (1)         Sheep       2.0 (1)       2.0 (1)       2.0 (1)         Goat       2.0 (1)       2.0 (1)         Gauteng       Hammanskraal, Themba Animal Clinic	cases
Reef	cases
2.0 (1)   3.0 (1)   (1)	
Goat  Gauteng Hammanskraal, Themba Animal Clinic	
Gauteng Hammanskraal, Themba Animal Clinic	
Hammanskraal, Themba Animal Clinic	
Beef: 2, Sheep: 2, Goat: 2	
North West	
Leeudoringstad, Leeudoringstad Dierekliniek	
Beef: 3	
Free State	
Villiers, Wilgepoort Dierekliniek Vennootskap	
Beef: 2, Sheep: 2	
Western Cape	
Heidelberg (WC), Heidelberg Dierekliniek	
Sheep: 2	
Itch mite	^
PROVINCE MDUMAIANDA GAUTENO LIMDODO	lorthern
Average 3.0 (1) 2.0 (1)	Cape

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

reported									
Beef					3.0 (1)				
Sheep							2.0(1)		
Free State									
	inburg Dierek	liniek							
Beef: 3									
Eastern Cap	е								
Elliot, EG Ve	eterinary Servi	ices Elliot							
Sheep: 2									
Tick-bor	ne Disease	es.							
African re	ed water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.9 (7)		2.0 (1)	1.0 (1)	2.3 (3)	1.7 (9)	1.5 (4)	1.8 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.9 (7)		2.0 (1)	1.0 (1)	2.3 (3)	1.7 (9)	1.7 (3)	2.0 (1)	
Dairy							1.0(1)	1.7 (3)	
Mpumalang	a							<u> </u>	
Grootvlei, G	irootvlei Diere	kliniek							
Beef: 1									
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 3									
	lelspruit Anim	aı Hospita							
Beef: 2	Dota Vat III	:4-1							
Beef: 2	Pets Vet Hosp	ıtaı							
Standerton,	Econovet								
Beef: 2	LCOHOVEL								
	Cape Cross Vol	kernet Die	rehosnita	al					
Beef: 1	ape C1033 V01	Mai uat Dic	enospita	uı					
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
6 Cases									
North West									
	Klerksdorp Di	ierehospit	aal						
Beef: 1	•	•							
Free State									
Frankfort, F	rankfort Diere	ekliniek							

Doof: 2									
Beef: 3	laanatad Dian	_1-1::-1-							
	Hoopstad Dier	ekiiniek							
Beef: 2	Di	- ::- - \/-							
Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2									
	1								
Kwazulu-Na		CI::	_						
	ergville Veteri	nary Clini	С						
Beef: 2		\/ . o!'							
	vn, Camperdov	wn Vet Cii	nic						
Beef: 1									
Dundee, Endumeni Herd health									
Beef: 1 Eshowe, Eshowe Veterinary Hospital									
•	nowe veterina	iry Hospit	al						
Beef: 2		. • .							
	stcourt Vet Cli	nic							
Beef: 1	Mauhatuka	nimal Cit-	!a						
-	Mtubatuba A	nımaı Ciin	IC						
Beef: 2	Ncanduvet Ne	wesetle							
Newcastie, Beef: 3	ncanduvet Ne	wcastie							
	Underberg Ve	torinan, S	ilraor.						
Beef: 1	Underberg ve	termary S	urgery						
	yheid Privaat \	looartco							
Beef: 2	yneid Privaat	veeartse							
Eastern Cap	10								
	delaide Veteri	nary Clinie	<b>a</b>						
Beef: 2	delaide veteri	ilai y Cillin	_						
	Alexandria Pl	attaland S	nrookkam	nor					
Dairy: 1	Alexandia Fi	atterana s	preekkaii	ici					
	eterinary Serv	ices Fllint							
Beef: 2	eccimaly Sciv	ices Emoc							
	n, Queenstow	n Veterina	ry clinic						
Beef: 1	ii, Queelistow	ii veteiiiie	ii y CiiiiiC						
Western Ca	ne								
	orge Animal H	ospital							
Beef: 2, Dair		озрісаі							
	(WC), Heidelb	era Diere	kliniek						
Dairy: 2	(We), Heldelb	cig Dicic	KIIIICK						
	Riversdal Die	rekliniek							
Dairy: 1	Riversual Die	CKIIIICK							
Daily. 1									
<b>Asiatic</b> re	ed water								^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape
									<u> </u>
					2.0				
Average	2.0 (6)	2.0 (1)	2.0 (1)		2.0	1.8 (5)	2.0 (3)	1.8 (4)	
Average	2.0 (6)	2.0 (1)	2.0 (1)		(3)	1.8 (5)	2.0 (3)	1.8 (4)	
	. ,	, í	, , , , , , , , , , , , , , , , , , ,	Alexa -	(3)	` ′	, ,		10
Level of imp	2.0 (6) ortance scale: 1	, í	, , , , , , , , , , , , , , , , , , ,	than on	(3)	` ′	, ,		10 cases
	. ,	, í	, , , , , , , , , , , , , , , , , , ,	than on	(3)	` ′	, ,		10 cases
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	(3) e case b	ut less than t	en and 3 =	more than	10 cases
Level of imp	. ,	, í	, , , , , , , , , , , , , , , , , , ,	than on	(3)	` ′	, ,		10 cases

Dairy 1.5 (2) 2.0 (3)

Mpumalanga
Balfour, Balfour Dierekliniek

**Ermelo, Môregloed Veterinêre Spreekkamer**Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Middelburg Dierehospitaal

Beef: 3

Piet Retief, Pets Vet Hospital

Beef: 2

**Standerton, Econovet** 

Beef: 2

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2 **Limpopo** 

Makhado, Blouberg Dierekliniek

Beef: 2 2 Cases

**Free State** 

**Frankfort, Frankfort Dierekliniek** 

Beef: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 1

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 2, Dairy: 2

**Estcourt, Estcourt Vet Clinic** 

Dairy: 1

**Vryheid, Vryheid Privaat Veeartse** 

Beef: 2
Eastern Cape

**Alexandria, Riverview Trading Vet Consulting Services** 

Reef: 2

**Elliot, EG Veterinary Services Elliot** 

Beef: 2

Stutterheim, Stutterheim Veterinary Clinic

Beef: 2 Two outbreaks

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 2

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.3 (3)		2.5 (2)	1.9 (7)	2.0 (1)	1.0 (1)	2.0 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	2.0 (1)	1.3 (3)		2.5 (2)	1.8 (6)	2.0 (1)	1.0 (1)		
Dairy					2.0 (1)			2.0 (4)	
Mpumalang		D' I	'a I						
Beef: 2	, Middelburg I	Dierenosp	ıtaaı						
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 1	dai, memba r	anninai Cii							
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2			-						
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С		
Beef: 1									
North West			_						
	Christiana Die	rehospita	al						
Beef: 3			1 . 1						
Leeudorings Beef: 2	stad, Leeudori	ngstad Di	erekliniek						
	a herd that had	heen block	ad with tot	racyclino	nreviou	clv			
Free State	a nera triat riau	DEETI DIOCI	Neu With tet	.i acyclii ie	previou	Siy			
	in, Dr Stephan	Wessels							
Beef: 1	m, 21 Gegman								
Ficksburg, C	Dosvrystaat Di	ere Produ	ıkte						
Beef: 1	-								
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 3									
	<b>Ladybrand Die</b>	erekliniek							
Beef: 2									
	nekal Dierekli	niek							
Beef: 1, Dairy	7. 2 'inburg Dierek	liniak							
Beef: 3	induig Dielek	iick							
Kwazulu-Na	ntal								
	ergville Veteri	nary Clini	С						
Beef: 2	_	_							
Eastern Cap									
	et, Graaff Reir	net Veteri	nary Clinic						
Beef: 1									
Western Ca									
	orge Animal H	ospital							
Dairy: 2	, Dr Otto Viila	l <sub>e</sub>							
Maimesbury Dairy: 2	, Dr Otto Krie	K							
	, Invitrotech								
···aiiiiesDuf	, miniciplecii								

Dainu 2	Delinii 2											
Dairy: 2 3 Cases												
	Riversdal Dier	ekliniek										
Dairy: 2	Kiversuur Dier	CKIIIICK										
Heartwat	er								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average         2.4 (5)         1.8 (4)         1.5 (4)         3.0 (1)         1.6 (10)         1.7 (6)												
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases			
Beef 2.7 (3) 1.0 (2) 1.7 (3) 3.0 (1) 2.0 (5) 2.0 (2)												
Dairy 1.0 (1) 2.0 (2)												
<u>-</u>	Sheep         2.0 (1)         2.5 (2)           1.0 (2)         1.0 (1)											
Goat	2.0 (1)		1.0 (1)			1.5 (2)	1.0 (1)					
Mpumalang												
	<b>Longtom Dier</b>	ekliniek										
Beef: 3, Shee												
	, Middelburg I	Dierehosp	itaal									
Beef: 3												
	lelspruit Anima	al Hospita	ıl .									
Beef: 2, Goat	: 2											
Gauteng	raal, Themba A	Amimal Cli	nia									
Beef: 1	idai, illelliba F	Allilliai Cii	IIIC									
	ima Veterinar	v Consult	ina Rooms									
Sheep: 2		, consum	9									
	nderstepoort A	cademic	Hospital a	nd Produ	uction A	Animal Clinic						
Beef: 1, Shee			<b>-</b>									
Limpopo	•											
Bela Bela, A	rtemis Veterir	nary Servi	ces									
Beef: 2												
	ith heartwater,		e died									
	louberg Diere	kliniek										
Beef: 2												
8 Cases	Dr Honk Vicco											
Goat: 1	Dr Henk Visse											
	Vaalwater Die	respreekk	amer									
Beef: 1		. Jopi Colli										
Calf												
North West												
Stella, Stella	a Dierekliniek											
Beef: 3												
Kwazulu-Na												
	ergville Veteri	nary Clini	С									
Beef: 2												
-	Camperdown, Camperdown Vet Clinic											
Sheep: 1	dumeni Herd h	nealth										
Dundee, Lill	aamem neru l	icartii										

Beef: 2 Eshowe, Eshowe Veterinary Hospital											
	howe Veterina	ry Hospit	al								
Beef: 2											
	stcourt Vet Clir	nic									
Dairy: 1			_								
	Mtubatuba Aı	nimal Clin	ic								
Beef: 2, Goat											
	ongola Animal	Clinic									
Sheep: 1, Go											
	yheid Privaat \	/eeartse									
Beef: 2											
Eastern Cap											
	delaide Veterii	nary Clinic	C								
Beef: 2											
Alexandria,	Alexandria Pla	atteland S	Spreekkam	ner							
Dairy: 2											
	Riverview Tra	ding Vet	Consulting	J Service	es						
Beef: 2											
	y, Cape Cross \	Veterinary	/ Hospital								
Dairy: 2											
	Uitenhage Die	rehospita	al								
Sheep: 1, Go	at: 1										
Sweating	Sickness								^		
5 Wearing	, Dickiness								_		
				North	Eroo	Kwazulu-	Engtown	Wootown	Northorn		
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North West		Kwazuiu- Natal	Eastern		Northern		
				west	State	Natai	Cape	Cape	Cape		
Average			2.0(1)	2 3 (4)	1.4	1.0(1)					
			2.0 (1)	2.5 (1)	(7)	1.0 (1)					
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
reported											
					1.4						
Beef			2.0(1)	2.3(4)	(7)	1.0(1)					
					(7)						
Limpopo											
	Blouberg Diere	kliniek									
Beef: 2											
2 Cases											
North West											
	Christiana Die	rehospita	al								
Beef: 2		_	_								
	, Klerksdorp Di	erehospit	aal								
Beef: 2		_									
	stad, Leeudori	ngstad Di	erekliniek								
Beef: 3											
	p, Ventersdorp	Diereklin	iiek								
Beef: 2											
Free State											
_											
	in, Dr Stephar	n Wessels									
Beef: 1											
Beef: 1 Clocolan, Cl	in, Dr Stephar										
Beef: 1 Clocolan, Cl Beef: 1	locolan Dierek	liniek									
Beef: 1 Clocolan, Cl Beef: 1		liniek	iek								

Beef: 1											
Hoopstad, F	loopstad Dier	ekliniek									
Beef: 1	•										
Kroonstad,	Kroonstad Die	rehospita	al								
Beef: 2											
Viljoenskro	on, Viljoenskr	oon Dierel	kliniek								
Beef: 3											
Wesselsbro	n, Wesselsbro	n Dierekli	niek								
Beef: 1	•										
Kwazulu-Na	ital										
Pongola, Po	ngola Animal	Clinic									
Beef: 1											
Insect T	ransmittab	le Dise	ases								
Lumpy sk	cin disease								^		
				North	Free	Kwazulu-	Eastern	Western	Northern		
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape		
Average	2.5 (2)		2.0 (1)	1.0 (1)	1.5 (2)	1.7 (3)	2.0 (1)				
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases		
reported											
Beef	2.5 (2)		2.0 (1)	1.0 (1)	1.5 (2)	1.5 (2)	2.0 (1)				
Dairy						2.0 (1)					
<b>Mpumalang</b>	а										
	lelspruit Anim	al Hospita									
Beef: 3											
Volksrust, C Beef: 2	Cape Cross Vol	ksrust Die	erehospita	al							
Limpopo											
	louberg Diere	kliniek									
Beef: 2											
4 Cases											
<b>North West</b>											
Klerksdorp,	Klerksdorp Di	ierehospit	aal								
Beef: 1											
Free State											
	e, Hertzogville	Diereklin	iek								
Beef: 1											
	s Dierehospita	al									
Beef: 2											
	ated herds, light	clinical sig	ns.								
Kwazulu-Na											
Bergville, Be Beef: 2	ergville Veteri	nary Clini	C								
Estcourt, Es	tcourt Vet Cli	nic									
Dairy: 2											
	ngola Animal	Clinic									
Beef: 1											

Eastern Cape												
Adelaide, Adelaide Veterinary Clinic												
Beef: 2 Two small outbreaks of lumpy skin disease												
Two small out	tbreaks of lump	y skin dise	ase									
Three-day	y-stiffsickn	ess							_			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.0 (3)	1.0 (1)	1.5 (2)			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 2.0 (3) 1.0 (1) 1.5 (2) 2.0 (1) 1.0 (1)												
Mpumalanga	a											
	, Middelburg I	Dierehosp	itaal									
Beef: 1		•										
Nelspruit, N	elspruit Anim	al Hospita	ıl									
Beef: 2	•											
	Pets Vet Hosp	ital										
Beef: 3												
Gauteng												
	aal, Themba A	Animal Cli	nic									
Beef: 1	,		-									
Limpopo												
	rtemis Veterir	nary Servi	ces									
Beef: 1		,										
	d calf, suspecte	d ephemer	al fever									
	2 Farm Practi	•										
Beef: 2												
Kwazulu-Na	ital											
	ngola Animal	Clinic										
Beef: 2		· · · · · · ·										
Western Cap	pe											
	Bay, Plettenb	erg Bay A	Reitz									
Beef: 1	Day, Hetteris	cig buy r	· ·······									
Blue tong	jue								<u> </u>			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average 3.0 (1) 1.3 (3) 2.0 (1) 1.3 (3)												
									_			
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and $3 = 2.0(1)$	more than	10 cases			
Level of imporeported	ortance scale: 1 3.0 (1)	= one case	e, 2 = more	e than on	1.2 (5)	ut less than t		1.3 (3)	10 cases			

	Lawatan Dian								
	Longtom Dier	екипіек							
Sheep: 3									
Free State	in Du Chamban								
	in, Dr Stephan	wessels							
Sheep: 1	C	h Diaa	.						
	, Greylingsrust	Dierespr	ееккатег	•					
Sheep: 1									
	Dosvrystaat Di	ere Produ	ікте						
Sheep: 1			-1						
	Kroonstad Die	renospita	aı						
Sheep: 1	Ladedona ad Di								
	Ladybrand Die	erekiiniek							
Sheep: 2									
Eastern Cap		/ataulman	. Usanital						
	y, Cape Cross \	veterinary	у поѕрітаі						
Dairy: 2									
Western Ca	-	era Dierel	kliniak						
Sheep: 1	(WC), Heidelb	erg Dierei	KIIIIIEK						
	Riversdal Dier	okliniok							
Sheep: 2	Miversual Diel	CKIIIIEK							
	h, Stellenbosc	h Animal	Hocnital						
Sheep: 1	ii, Stellelibosc	II Allillal	поѕрісаі						
эпеер. 1									
Nagana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
Average				West	State	2.0 (1)	Саре	Cape	Саре
	ortance scale: 1	= one case				2.0 (1)			
Level of imporeported	ortance scale: 1	= one case				2.0 (1) ut less than to			
Level of imporeported  Beef		= one case				2.0 (1)			
Level of imporeported  Beef  Kwazulu-Na	atal		e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba,			e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na	atal		e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2	atal		e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2	atal Mtubatuba Ar		e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2	atal Mtubatuba Ar   Diseases		e, 2 = more			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2  Venerea  Trichomo	atal Mtubatuba Ar   Diseases	nimal Clin	ic			2.0 (1) ut less than to			
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2  Venerea  Trichomo	atal Mtubatuba Ar I Diseases onosis	nimal Clin	ic Limpopo	North West	e case b	2.0 (1) ut less than to 2.0 (1)  Kwazulu- Natal	en and 3 =	more than	10 cases
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2  Venerea  Trichomo  PROVINCE  Average	atal Mtubatuba Ar  I Diseases  onosis  Mpumalanga	Gauteng	ic  Limpopo  2.0 (1)	North West	Free State	2.0 (1)  ut less than to  2.0 (1)  Kwazulu- Natal	en and 3 =  Eastern Cape	more than  Western Cape	10 cases  Northern Cape
Level of imporeported  Beef  Kwazulu-Na Mtubatuba, Beef: 2  Venerea  Trichomo  PROVINCE  Average  Level of impore	Mtubatuba Ar  I Diseases  nosis  Mpumalanga	Gauteng  2.0 (1)  = one case	ic  Limpopo  2.0 (1)	North West  2.0 (3)	Free State  2.1 (11) e case b	2.0 (1)  ut less than to  2.0 (1)  Kwazulu- Natal  1.8 (4)  ut less than to	en and 3 =  Eastern Cape	more than  Western Cape	10 cases  Northern Cape

# Mpumalanga

Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 2

Gauteng

**Pretoria, Anima Veterinary Consulting Rooms** 

Beef: 2 Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2 2 Cases

**North West** 

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

3 Cases in one herd

Stella, Stella Dierekliniek

Beef: 3
Free State

**Bloemfontein, Dr Stephan Wessels** 

Beef: 2

Two new farms, 2 bulls in Petrusburg, one bull in Brandfort

Clocolan, Clocolan Dierekliniek

Beef: 2

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 2

Hertzogville, Hertzogville Dierekliniek

Beef: 2

**Hoopstad, Hoopstad Dierekliniek** 

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Reef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 2

Parys, Parys Dierehospitaal

Beef: 1

During last test in a positive herd one suspected positive bull

Senekal, Senekal Dierekliniek

Dairy: 1

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 1

**Dundee, Endumeni Herd health** 

Beef: 3

**Newcastle, Ncanduvet Newcastle** 

Beef: 1

Vryheid, Vryheid Privaat Veeartse

Vibriosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	2.0 (1)	1.0 (1)	1.9 (8)		1.0 (2)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)	2.0 (1)	1.0 (1)	1.9 (8)		1.0 (2)		
Gauteng									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Beef: 1									
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
3 Cases									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1									
Free State	in Du Ctanhau	Wassala							
Beef: 2	in, Dr Stephan	wessels							
	ocolan Dierek	liniak							
Beef: 2	ocolali bierek	iiiick							
	, Platkop Dier	ekliniek							
Beef: 2	,								
	e, Hertzogville	Diereklin	iek						
Beef: 2	.,								
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 1	<u> </u>								
Ladybrand,	<b>Ladybrand Die</b>	erekliniek							
Beef: 2									
	nekal Dierekli	niek							
Beef: 1									
	inburg Dierek	liniek							
Beef: 3									
Eastern Cap		n Diorok!	niok						
Beef: 1	h, Hertzogbrug	Dierekiii	IICK						
	n, Queenstowi	n Veterins	rv clinic						
Beef: 1	ii, Queelistowi	. Veterine	ii y ciiiiic						
	l Disease (	other)							
Blackqua									/
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

							_		
Average	2.0 (1)			2.0 (2)	2.0 (3)	1.7 (3)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)			2.0 (2)	2.0 (3)	1.5 (2)			
Dairy						2.0(1)			
Mpumalang	ıa					, ,			
	four Diereklin	iek							
Beef: 2									
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 2									
	p, Ventersdorp	Diereklin	ilek						
Beef: 2 Free State									
	Dosvrystaat Di	ara Dradu	kto						
Beef: 2	JUSVI YSLAAL DI	ere Produ	KLE						
8 months old	calves								
	land Dierehos	pitaal							
Beef: 2	2.0.0.0.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	gepoort Dierel	diniek Ve	nnootskap	)					
Beef: 2									
Kwazulu-Na									
•	dumeni Herd l	nealth							
Beef: 2	teeurt Vet Cliv	.i.a							
Beef: 1, Dair	stcourt Vet Clin	IIC							
beer. 1, Daii	y. Z								
Botulism					,				^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (2)			1.0 (1)	1.3 (3)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					3.0 (2)				1.3 (3)
Sheep								1.0 (1)	
Free State									
	e, Hertzogville	Diereklin	iek						
Beef: 3									
	inburg Dierek	liniek							
Beef: 3									
Western Ca									
<b>Oudtshoorn</b> Sheep: 1	, Ostrinea								
oncep. 1									

Northorn Cana										
Northern Cape Kathu, Kathu Dierekliniek										
	и ріегекііпіек									
Beef: 1	D	D'	••							
<b>Postmasbur</b> Beef: 2	g, Postmasbu	rg Diereki	іпіек							
Upington, Upington Veeartsenykliniek Beef: 1										
beer: 1										
<b>Pulpy Kid</b>	ney								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)			1.0 (1)	1.7 (6)	2.0 (1)	1.8 (4)	2.0 (4)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases	
Sheep	2.0 (1)			1.0 (1)	1.7 (6)	2.0 (1)	2.0 (2)	2.0 (4)		
Goat							1.5 (2)			
Mpumalang	а									
	egloed Veteri	nêre Spre	ekkamer							
Sheep: 2		-								
North West										
Christiana, (	Christiana Die	rehospita	al							
Sheep: 1		-								
Free State										
Clocolan, Cl	ocolan Dierek	liniek								
Sheep: 2										
Philippolis,	Rowelsfontein	veearts	Spreekkan	ner						
Sheep: 2										
Reitz, Rieml	and Dierehos	pitaal								
Sheep: 2										
Senekal, Se	nekal Dierekli	niek								
Sheep: 1										
Villiers, Wilg	gepoort Dierel	kliniek Ve	nnootskap							
Sheep: 2										
	n, Wesselsbro	n Dierekli	niek							
Sheep: 1										
Kwazulu-Na										
	heid Privaat \	/eeartse								
Sheep: 2										
Eastern Cap										
	et, Camdeboo	Veterina	y Clinic							
Goat: 1										
	ı, Queenstowı	n Veterina	ry clinic							
Sheep: 1										
	Steynsburg D	pierehospi	taal							
Sheep: 3	Challer	V-4	Cl''							
	, Stutterheim	veterinar	y Clinic							
Goat: 2	a 4.1a									
ruipy kidney (	outbreak, young	g goats								

W L											
Western Cape Caledon, Caledon Dierekliniek											
Sheep: 1	iledoli Dielekii	IIIICK									
-	ırg, Tygerberg	mooreesl	oura								
Sheep: 3	<i>3, 133</i>										
Riversdale, Riversdal Dierekliniek											
Sheep: 1 Worcester, Durban Straat Dierekliniek Worcester											
	Durban Straat	Diereklin	iek Worce	ster							
Sheep: 3											
Lamb dys	sentry								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)										
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Sheep	2.0(1)										
Mpumalang	a										
Volksrust, C	Cape Cross Vol	ksrust Die	rehospita	al							
Sheep: 2											
Swelled h	nead diseas	е							^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		2.0 (1)						2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef		2.0 (1)									
Sheep								2.0(1)			
Gauteng											
	spruit, Kerkstr	aat Dierel	kliniek								
Western Ca	ре										
	Durban Straat	Diereklin	iek Worce	ster							
Sheep: 2											
Red gut (	cattle)								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)	3.0 (1)				1.0 (1)	1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef	1.0(1)	3.0 (1)				1.0(1)					
							_				

Dairy							1.0 (1)					
Mpumalang												
	four Diereklin	iek										
Beef: 1												
Gauteng												
	nskraal, Themba Animal Clinic											
Beef: 3												
Kwazulu-Na												
	ergville Veteri	rille Veterinary Clinic										
Beef: 1												
Eastern Cap												
	Alexandria Pla	atteland S	preekkam	er								
Dairy: 1												
Tetanus	etanus etanus											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape			
Average	1.0 (1)				1.5 (2)	1.0 (1)		1.3 (3)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases			
Beef	1.0(1)					1.0(1)						
Sheep					1.5 (2)			1.5 (2)				
Goat								1.0(1)				
Mpumalang	a											
Volksrust, C	ape Cross Vol	ksrust Die	erehospita	al								
Beef: 1			-									
Free State												
Hoopstad, H	loopstad Diere	ekliniek										
Sheep: 2												
Reitz, Riem	land Dierehos	pitaal										
Sheep: 1												
Kwazulu-Na												
	ergville Veteri	nary Clini	С									
Beef: 1												
Western Ca												
Oudtshoorn												
Sheep: 1, Go												
	Riversdal Dier	ekliniek										
Sheep: 2												
Salmonel	losis								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	2.0 (2)			1.0 (1)			1.0 (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 2.0 (2) 1.0 (1) 1.0 (2) 2.0 (1)

Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 3
North West

Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

**Eastern Cape** 

**Elliot, EG Veterinary Services Elliot** 

Beef: 1

One group of calves

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 1

**Western Cape** 

Malmesbury, Dr Otto Kriek

Dairy: 3

Sudden surge in deaths due to *Salmonella* class C in calves. Management of calf holding environment is always a challenge. Prophylactic use of antibiotics combined with a contaminated environment in the early stages of life can sometimes facilitate *Salmonella* outbreaks

Brucella abortus										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)		2.0 (1)	1.0 (1)	2.5 (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 2.0 (1) 2.0 (1) 1.0 (1) 2.5 (4)

Mpumalanga

**Bethal, Bethal Dierekliniek** 

Beef: 2 **Limpopo** 

Makhado, Blouberg Dierekliniek

Beef: 2 Two cases

**North West** 

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1
Free State

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 2

**Hoopstad, Hoopstad Dierekliniek** 

	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 3	linhuun Diarak	liniak							
Beef: 2	inburg Dierek	ппек							
beer. 2									
Brucella	ovis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	2.5 (2)			2.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep				1.0 (1)	2.5 (2)			2.0 (1)	2.0 (1)
North West									
Brits, Brits   Sheep: 1	Dierekliniek								
Free State	Freestate Smit	thfield SV							
Sheep: 2									
•	3 cases; one ou	utbreak Mo	hakare						
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap	)					
Sheep: 3									
Western Ca	•								
	est, Beaufort \	<b>Nest State</b>	e Vet						
Sheep: 2									
Northern Ca		اداده میدادا:	:_l_						
Sheep: 2	pington Veea	rtsenykiin	iek						
E. coli									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	1.5 (2)	2.0 (1)	2.8 (6)	2.5 (16)	1.5 (2)		1.5 (2)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (3)	1.0(1)	2.0 (1)	3.0 (3)	2.6 (8)	1.0 (1)			
Dairy					2.0 (3)	2.0 (1)		2.0 (1)	
Sheep	2.0 (1)	2.0 (1)		2.7 (3)	2.6 (5)			1.0 (1)	
Goat									2.0 (1)
Mpumalang	a								

**Balfour, Balfour Dierekliniek** Beef: 2 **Nelspruit, Nelspruit Animal Hospital Standerton, Econovet** Beef: 2, Sheep: 2 Gauteng Hammanskraal, Themba Animal Clinic **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 8 Calves **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3, Sheep: 2 **Ventersdorp, Ventersdorp Dierekliniek** Beef: 3, Sheep: 3 **Free State Bloemfontein, Dr Stephan Wessels** Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Dairy: 2, Sheep: 3 Senekal, Senekal Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 3, Sheep: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Dundee, Endumeni Herd health** Dairy: 2 **Western Cape Oudtshoorn, Ostrimed Worcester, Durban Straat Dierekliniek Worcester** Dairy: 2

**Northern Cape** 

Goat: 2

Kathu, Kathu Dierekliniek

Enzootic Abortion										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average								1.0 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases	
Sheep								1.0(1)	2.0(1)	
Goat									2.0(1)	
Western Ca Beaufort We Sheep: 1	pe est, Beaufort \	West State	e Vet							
Sneep: 1 Northern Ca	ipe									
Postmasbur	g, Postmasbu	rg Dierekl	iniek							
Sheep: 2, Go	at: 2									
Dermato	ohilosis (Lu	mpy Wo	ol)						<u>^</u>	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)			1.0 (1)		2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases	
Sheep					1.0 (1)		2.0 (1)			
Goat		1.0(1)								
Gauteng										
	aal, Themba A	Animal Cli	nic							
Goat: 1 Free State										
	Rowelsfontein	veearts S	Spreekkan	ner						
Sheep: 1										
Eastern Cap										
<b>Graaff-Rein</b> Sheep: 2	et, Camdeboo	veterinar	y Clinic							
Sneep: 2 Angora goats										
	erium necro	phorum							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.5 (2)						2.0 (1)			

Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)						2.0 (1)		
Sheep							2.0 (1)		
•	3.0 (1)							and the state of t	
Mpumalang	a Longtom Dier	okliniok							
Beef: 2, Shee		ekiiiiek							
Eastern Cap									
-	eterinary Servi	ices Elliot							
Beef: 2									
Two calves									
Listeriosi	S								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								3.0 (1)	
Western Ca	ne								
	າ, Swellendam	Dierehos	pitaal						
Sheep: 3	,		P						
Other									^
Other	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Other PROVINCE	Mpumalanga	Gauteng	<b>Limpopo</b> 1.0 (1)						
Other  PROVINCE  Average  Level of impo	Mpumalanga  ortance scale: 1		1.0 (1)	West	State	Natal	Cape	<b>Cape</b> 1.0 (2)	Саре
Other  PROVINCE  Average  Level of imporeported			1.0 (1)	West	State	Natal	Cape	<b>Cape</b> 1.0 (2)	Саре
Other  PROVINCE  Average  Level of imporeported  Beef			1.0 (1) e, 2 = more	West	State	Natal	Cape	Cape 1.0 (2) more than	Саре
Other PROVINCE Average			1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of imporeported  Beef Sheep Limpopo Mokopane,		= one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of imporeported  Beef Sheep Limpopo Mokopane, I Beef: 1	ortance scale: 1  Dr Henk Visse	= one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of impore ported  Beef  Sheep  Limpopo  Mokopane, I  Beef: 1  Western Ca	ortance scale: 1  Dr Henk Visse pe	= one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape
PROVINCE  Average  Level of impore ported  Beef Sheep Limpopo Mokopane, I Beef: 1 Western Cal	ortance scale: 1  Dr Henk Visse	= one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef Sheep Limpopo Mokopane, I Beef: 1 Western Cal Ceres, Ceres	ortance scale: 1  Dr Henk Visse  pe s Veterinary H	= one case	1.0 (1) e, 2 = more	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of impore ported  Beef Sheep Limpopo Mokopane, lageef: 1 Western Cap Ceres, Ceres Beef: 1 One cow with	ortance scale: 1  Dr Henk Visse  pe s Veterinary H	= one case	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
PROVINCE  Average  Level of imporeported  Beef  Sheep  Limpopo  Mokopane, Imported  Beef: 1  Western Called  Ceres, Ceres  Beef: 1  One cow with	ortance scale: 1  Dr Henk Visse  pe s Veterinary H	= one case	1.0 (1) e, 2 = more 1.0 (1)	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of impore ported  Beef  Sheep  Limpopo  Mokopane, I  Beef: 1  Western Cal  Ceres, Ceres  Beef: 1  One cow with  Stellenbosc  Sheep: 1	ortance scale: 1  Dr Henk Visse  pe s Veterinary H	= one case r ospital h Animal	1.0 (1) e, 2 = more 1.0 (1)  Hospital	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре
Other  PROVINCE  Average  Level of impore ported  Beef  Sheep  Limpopo  Mokopane, I  Beef: 1  Vestern Cap  Ceres, Ceres  Beef: 1  Die cow with  Stellenbosch  Sheep: 1	Dr Henk Visse pe s Veterinary H n lumpy jaw h, Stellenbosc	= one case r ospital h Animal	1.0 (1) e, 2 = more 1.0 (1)  Hospital	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Саре

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)	2.0 (1)	2.0 (1)	2.2 (6)	1.5 (2)	2.0 (1)	1.4 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		1.0 (1)			2.0 (2)	2.0 (1)		1.0 (1)	
Dairy								1.0(1)	
Sheep			2.0 (1)		2.3 (4)			2.0 (1)	
Goat	2.0(1)			2.0(1)		1.0(1)	2.0 (1)	1.5 (2)	
Goat: 2 Gauteng	elspruit Anim								
Pretoria, Or Beef: 1 Limpopo	iderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinio	С		
	louberg Diere	kliniek							
2 Cases									
<b>North West</b>									
	Klerksdorp Di	erehospit	aal						
Goat: 2									
Free State									
	in, Dr Stephan	Wessels							
Sheep: 3	rankfort Diere	delimina							
Sheep: 3	rankiort Diere	Kiiiiek							
	Kroonstad Die	rehospita	al						
Sheep: 1		CC.pca	<b>~.</b>						
	on, Viljoenskro	oon Diere	kliniek						
Beef: 2									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee									
Kwazulu-Na		nami Olici	_						
Beef: 2	ergville Veteri	nary Clini	C						
	ngola Animal	Clinic							
Goat: 1	ngola Allillai								
Eastern Cap	e								
	et, Camdeboo	Veterina	y Clinic						
Goat: 2									
Western Ca									
	ledon Dierekli	niek							
Sheep: 2									
	,, Dr Otto Krie	k							
Goat: 1	. 6		_						

**Malmesbury, Groenkloof Dierekliniek** 

Beef: 1									
Oudtshoorn	, Ostrimed								
Goat: 2	h Challamhaaa	l. A:							
airy: 1	h, Stellenbosc	n Animai	поѕрітаі						
Cryptosp	oridium								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		1.0 (1)	2.0 (4)	1.3 (3)		2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	.0 cases
Beef				1.0 (1)	2.0 (2)	1.5 (2)			
Dairy					2.0 (1)			2.0 (1)	
Sheep		2.0 (1)			2.0 (1)	1.0 (1)			
Gauteng									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 2									
North West									
<b>Christiana,</b> Beef: 1	Christiana Die	rehospita	al						
Free State									
	ocolan Dierek	liniek							
Beef: 2, Dairy									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee									
Kwazulu-Na									
	ergville Veteri	nary Clini	C						
	Ncanduvet Ne	wcastle							
	Ncanduvet Ne	wcastle							
<b>Newcastle,</b> Beef: 1, Shee	ep: 1	wcastle							
<b>Newcastle,</b> Beef: 1, Shee <b>Western Ca</b>	ep: 1		iek Worce	ster					
<b>Newcastle,</b> Beef: 1, Shee <b>Western Ca</b>	ep: 1 <b>pe</b>		iek Worce	ster					
Newcastle, Beef: 1, Shee Western Ca Worcester,	ep: 1 pe Durban Straat		iek Worce	ster					
Newcastle, Beef: 1, Shee Western Ca Worcester, Dairy: 2	ep: 1 pe Durban Straat liseases		iek Worce	ster					^
Newcastle, Beef: 1, Shee Western Ca Worcester, Dairy: 2 Fungal d Ringworn	ep: 1 pe Durban Straat liseases	: Diereklin			Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape

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 (1) 2.0 (1) 2.5 (4) 1.3 (3) 1.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Middelburg, Middelburg Dierehospitaal

Beef: 1

**Volksrust, Cape Cross Volksrust Dierehospitaal** 

Beef: 2 **Limpopo** 

Makhado, Blouberg Dierekliniek

Beef: 2 3 Cases

**North West** 

Christiana, Christiana Dierehospitaal

Beef: 2 Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 1

Hertzogville, Hertzogville Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef:

Pongola, Pongola Animal Clinic

Beef: 1

**Underberg, Underberg Veterinary Surgery** 

Beef: 2

Western Cape

**Oudtshoorn, Ostrimed** 

Beef: 1

# Viral Diseases (other)

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

		ksrust Die	renospita	aı					
	Cape Cross Vol		-						
Beef: 2									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1									
Free State									
	in, Dr Stephan	Wessels							
Beef: 1									
Ladybrand,	<b>Ladybrand Die</b>	erekliniek							
Beef: 2									
Smithfield,	Freestate Smit	thfield SV							
Beef: 3									
Since August	15 animals died								
BVD (Bov	vine viral dia	arrhoea)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Northern Ca	ape rg, Postmasbu	rg Dierekl	iniek						2.0 (1)
Beef: 2	=			is)					2.0 (1)
Northern Ca Postmasbur Beef: 2 IBR (Infe	rg, Postmasbu	ne rhino	tracheit	is) North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	2.0 (1)  Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe	ectious bovi	ne rhino	tracheit	North					^ Northern
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average	ectious bovi	ne rhino Gauteng	tracheit Limpopo 2.0 (1)	North West	State	Natal	Cape	Cape	Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average Level of impore	ectious bovi	ne rhino Gauteng	tracheit Limpopo 2.0 (1)	North West	State	Natal	Cape	Cape	Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average Level of imporeported Beef Limpopo Makhado, B Beef: 2	ectious bovi	Gauteng  = one case	Limpopo  2.0 (1)  e, 2 = more	North West	State	Natal	Cape	Cape	Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average Level of imporeported Beef Limpopo Makhado, B Beef: 2	Mpumalanga ortance scale: 1	Gauteng  = one case	Limpopo  2.0 (1)  e, 2 = more	North West	State	Natal	Cape	Cape	Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average Level of imporeported Beef Limpopo Makhado, B Beef: 2 2 Cases	Mpumalanga ortance scale: 1	Gauteng  = one case	Limpopo  2.0 (1)  2.2 = more  2.0 (1)	North West	State	Natal	Cape	Cape	Northern Cape
Northern Ca Postmasbur Beef: 2 IBR (Infe PROVINCE Average Level of imporeported Beef Limpopo Makhado, B Beef: 2 2 Cases BRSV (Bo	Mpumalanga  ortance scale: 1	Gauteng  = one case  kliniek	Limpopo  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)	North West	State	Natal	Cape	Cape	Northern Cape

Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Dairy								1.0(1)	
Western Ca Stellenbosc Dairy: 1	pe h, Stellenbosc	h Animal	Hospital						
Enzootic	Bovine Leuc	cosis (El	BL)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0(1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Dairy								1.0(1)	
Western Ca Stellenbosc	pe h, Stellenbosc	h Animal I	Hosnital						
Dairy: 1	n, stenenbose	ii Aililiai	поэрісаі						
Jaagsiekt	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0(1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep								1.0(1)	
Western Ca Beaufort We	pe est, Beaufort \	Nest State	e Vet						
Sheep: 1	•				20 44			. h.efe	L L
was done	I from Free State	e to Fraseri	ourg a tear	ago anu	zu dead	is occurred in	i the month	i beiore a po	ost mortem
Orf									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.5 (2)	2.3 (4)			2.3 (3)	2.0 (1)
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
reported									
				1.0 (1)	2.3 (4)			2.3 (3)	

North West									
Brits, Brits I	Dierekliniek								
Goat: 2									
Christiana,	Christiana Die	rehospita	al						
Sheep: 1		-							
Free State									
Hoopstad, F	loopstad Dier	ekliniek							
Sheep: 3									
Kroonstad,	Kroonstad Die	rehospita	nal						
Sheep: 2									
Philippolis,	Rowelsfonteir	veearts	Spreekkan	ner					
Sheep: 2									
Winburg, W	inburg Dierek	liniek							
Sheep: 2									
Western Ca	ре								
George, Geo	orge Animal H	ospital							
Sheep: 3									
Piketberg, F	Piketberg Dier	ehospitaa	ıl						
Sheep: 2									
Young ewes									
Riversdale,	<b>Riversdal Dier</b>	ekliniek							
Sheep: 2									
Northern Ca	аре								
Postmasbur	g, Postmasbu	rg Dierek	liniek						
Goat: 2									
Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		2.0 (1)	2.5 (2)	1.8 (5)	2.0 (3)	2.0 (1)	1.3 (3)	2.0 (1)
Level of impore	ortance scale: 1	= one cas	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)		2.0 (1)	2.5 (2)	2.0 (3)	2.0 (3)	2.0 (1)	2.0 (1)	
Dairy								1.0 (2)	
Sheep					1.5 (2)				
Goat									2.0(1)
Mpumalang	a								
	a four Diereklin	iek							
Beef: 1	.car Bicicidilli								
Limpopo									

Limpopo Makhado, Blouberg Dierekliniek

Beef: 2 2 Cases

North West

Brits, Brits Dierekliniek

Christiana	Christiana Dia		_1						
Beef: 3	Christiana Die	renospita	aı						
Free State	Hartmanvilla	Diaraklin	iale						
	e, Hertzogville	Dierekiiii	iek						
Sheep: 2	Vroonstad Die	roboonito							
Beef: 1	Kroonstad Die	renospita	di						
	Dowolafantain	. voonete (	Smrookkan	•••					
	Rowelsfontein	i veearts s	эргееккап	іег					
Sheep: 1	on, Viljoenskro	oon Dierel	klimiak						
Beef: 2	on, viijoenskro	oon Dierei	Kiiiiiek						
	inburg Dierek	liniak							
Beef: 3	ilibuly bleick	IIIIEK							
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clini							
Beef: 2	ergville veteri	nary Cillin	<u> </u>						
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2	Pitubatuba Ai	IIIIai Ciiii	IC						
	/heid Privaat \	/eeartse							
Beef: 2	,								
Eastern Cap	e								
	delaide Veterii	narv Clinio	2						
Beef: 2		,	-						
Western Ca	pe								
	orge Animal H	ospital							
Beef: 2									
Riversdale,	Riversdal Dier	ekliniek							
Dairy: 1									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1	•								
<b>Northern Ca</b>	ре								
Postmasbur	g, Postmasbu	rg Dierekl	liniek						
Goat: 2									
Doto sino									
Rota viru	S								
					<u></u>		_		
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
Average						1.0 (1)			
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and $3 =$	more than	10 cases
reported									
Beef						1.0(1)			
Kwazulu-Na	4-1					1.0 (1)			
Beef: 1	Ncanduvet Ne	wcastie							
beer. 1									
Other vira	al disease n	ot listed							^
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	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 Sheep 2.0(1)**Northern Cape** Colesberg, Karoo Veterinary Hospital Sheep: 2 Lambs with poor developed cerebellae (6 out of 400 lambs) Poisonings (Plant) and Fungal Cardiac glycoside poisoning Western Northern North Free Kwazulu-Eastern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0(1)**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)Goat 1.0(1)**Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Goat: 1 **Northern Cape** Kathu, Kathu Dierekliniek Beef: 1 Slangkop Cestrum North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.3 **Average** (3) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.3 **Beef** (3) **Free State Bloemfontein, Dr Stephan Wessels** Beef: 1 Clocolan, Clocolan Dierekliniek Beef: 1 Reitz, Riemland Dierehospitaal

Average    1.0	Facial ecz	zema								_
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Sheep  1.0 (1)  2.0 (1)  Sheep  1.0 (1)  2.0 (1)  Sheep: 1  Western Cape George, George Animal Hospital Jairy: 2  Worcester, Durban Straat Dierekliniek Worcester Sheep: 2  Geeldlikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape 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  Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- State Natal Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape Cape  Northern Cape Northern Cape  Western Northern Cape Cape  Northern Cape Northern Cape Northern Cape Cape  Northern Cape Cape  Northern Cape Northern Cape Cape  Northern Cape Northern Cape Cape  Northern Cape Northern Cape Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape Northern Cape Cape  Northern Cape  Northern Cape Cape  Northern Cape  Northern Cape Cape  Northern Cape Cape  Northern Cape	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Dairy  Sheep  1.0 (1) 2.0 (1) 2.0 (1) 3.0 (1)	Average								2.0 (2)	
Sheep  I.0 (1)  2.0 (1)  Free State Bultfontein, Greylingsrust Dierespreekkamer  Sheep: 1  Western Cape  George, George Animal Hospital Dairy: 2  Worcester, Durban Straat Dierekliniek Worcester  Sheep: 2  Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Northern Cape  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  Kroonstad, Kroonstad Dierehospitaal Sheep: 3  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kate Natal Eastern Cape Cape Northern Cape  Average  3.0 (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  Average 3.0 (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	Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Free State Bultfontein, Greylingsrust Dierespreekkamer Sheep: 1 Western Cape George, George Animal Hospital Jainy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2 Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape Cape Cape Cape  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 Kroonstad, Kroonstad Dierekliniek Sheep: 2 Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Northern Cape  Average  3.0 (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  Average 3.0 (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	Dairy								2.0 (1)	
Bultfontein, Greylingsrust Dierespreekkamer Sheep: 1 Western Cape George, George Animal Hospital Dairy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2 Geeldikkop/Dikoor PROVINCE Mpumalanga Gauteng Limpopo North West State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Limpopo North West State State Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Limpopo North West State	Sheep								2.0 (1)	
Sheep: 1 Western Cape George, George Animal Hospital Dairy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2 Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance Scale: 1 = Mpumalanga Gauteng Limpopo North (2)  Sheep  Geeldikkop/Dikoor  Limpopo North West State  Kwazulu- Cape Cape Northern Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Average 3.0 (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	Free State									
Western Cape George, George Animal Hospital Jainy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2  Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Northern Cape Cape Cape  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 Kroonstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- West State Kwazulu- Northern Cape Cape Cape Northern Cape Cape Cape Northern Cape Cape Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape	•	Greylingsrust	t Dierespr	eekkamer						
George, George Animal Hospital Dairy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2  Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierekliniek Sheep: 3  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  Average  3.0 (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										
Dairy: 2 Worcester, Durban Straat Dierekliniek Worcester Sheep: 2  Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape Northern Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  1.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierekliniek Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Sheep: 2  Average 3.0 (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			osnital							
Worcester, Durban Straat Dierekliniek Worcester Sheep: 2  Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northern Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep 2.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- Cape Northern Cape  Average 3.0 (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		J. ge Allillai III	ospitai							
Geeldikkop/Dikoor  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northern Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  2.5 (2)  Sheep  2.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northern Cape  Average  3.0 (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		Durban Straat	Diereklin	iek Worce	ster					
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northern Cape  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  2.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Northern Cape  Limpopo West State Natal  Limpopo West State Natal  Limpopo West State Natal  Limpopo West State Natal  Northern Cape	Sheep: 2									
Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  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  2.5 (2)  Free State  Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Cape Cape Cape  Average  3.0 (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	Geeldikk	op/Dikoor								
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average  3.0 (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	PROVINCE	Mpumalanga	Gauteng	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
Sheep  2.5 (2)  Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average  3.0 (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			Cauceng	Lillipopo	West	State	Natal	Cape	Cape	Cape
Free State Hoopstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape  Average 3.0 (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	Average		duteng	Еппроро	West	2.5	Natal	Cape	Cape	Cape
Hoopstad, Hoopstad Dierekliniek Sheep: 3  Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape  Average 3.0 (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	Level of impo					2.5 (2)				
Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Natal Cape Cape Northern Cape  Average 3.0 (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	Average  Level of imporeported  Sheep					2.5 (2) e case b				
Kroonstad, Kroonstad Dierehospitaal Sheep: 2  Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Cape Cape Northern Cape  Average 3.0 (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	Level of impore reported					2.5 (2) e case b				
Gousiekte  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Western Cape Cape  Average 3.0 (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	Level of impore reported  Sheep  Free State	ortance scale: 1	= one case			2.5 (2) e case b				
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Western Cape  3.0 (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	Level of impore reported  Sheep  Free State Hoopstad, F Sheep: 3	ortance scale: 1	= one case	e, 2 = more		2.5 (2) e case b				
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Western Cape  3.0 (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	Level of impore reported  Sheep  Free State Hoopstad, F Sheep: 3 Kroonstad,	ortance scale: 1	= one case	e, 2 = more		2.5 (2) e case b				
Average  3.0 (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	Level of impore reported  Sheep  Free State Hoopstad, F Sheep: 3 Kroonstad,	ortance scale: 1	= one case	e, 2 = more		2.5 (2) e case b				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported	Level of impore reported  Sheep  Free State Hoopstad, F Sheep: 3 Kroonstad, Sheep: 2	ortance scale: 1 Hoopstad Diere Kroonstad Die	= one case	e, 2 = more		2.5 (2) e case b				
reported	Level of impore reported  Sheep  Free State Hoopstad, Hoopstad, Kroonstad, Sheep: 2  Gousiekt	ortance scale: 1 Hoopstad Diere Kroonstad Die	= one case	e, 2 = more	e than on	2.5 (2) e case b 2.5 (2)  Free	ut less than t	en and 3 =	more than	10 cases  Northern
3eef 2 () (2)	Level of impore reported  Sheep  Free State Hoopstad, Hoopstad, Kroonstad, Sheep: 2  Gousiekt	ortance scale: 1 Hoopstad Diere Kroonstad Die	= one case ekliniek erehospita Gauteng	e, 2 = more	e than on	2.5 (2) e case b 2.5 (2)  Free	ut less than t	en and 3 =	more than	10 cases  Northern
	Level of impore reported  Sheep  Free State Hoopstad, Fisheep: 3 Kroonstad, Sheep: 2 Gousiekto  PROVINCE  Average  Level of impore reported imported impore reported impore reported impore reported impore reported impore reported impore reported imported impore reported imported imp	ortance scale: 1 Hoopstad Diere Kroonstad Die Mpumalanga 3.0 (1)	= one case ekliniek erehospita Gauteng 2.0 (2)	e, 2 = more	North West	2.5 (2) e case b 2.5 (2)  Free State	ut less than t	en and 3 =  Eastern Cape	western Cape	10 cases  Northern Cape

Sheep	3.0 (1)								
Mpumalang									
<b>Ermelo, Mô</b> i Sheep: 3	regloed Veteri	nêre Spre	ekkamer						
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2			- ~						
<b>Magaliesbu</b> i Beef: 2	rg, Magaliesbı	ırg; Dr Ry	an Jeffrey						
Kikuyu po	oisoning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef								1.0(1)	
Western Ca	pe							, (-)	
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Lantana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)					1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (1)					1.0(1)			
Mpumalang	· · · · · · · · · · · · · · · · · · ·					( )			
	Pets Vet Hosp	ital							
Beef: 3									
	ntal dumeni Herd l	nealth							
Beef: 1									
Prussic a	cid poisonir	ıg							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							2.0(1)		
							2.0 (1)		

	e								
	et, Graaff Reir	net Veteri	nary Clinic	:					
Sheep: 2									
Tulip Pois	soning								_ ^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)		2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef					2.0 (2)		2.0 (1)		
Beef: 2	e, Hertzogville								
<b>Villiers, Wilg</b> Beef: 2 <b>Eastern Ca</b> p	gepoort Dierel	kliniek Ve	nnootskap						
	eterinary Servi	ces Elliot							
Mycotoxi	cosis								^
PROVINCE	Mpumalanga	_							
		Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		Gauteng	Limpopo						
Level of impo	ortance scale: 1			West	State	Natal	2.0 (1)	Саре	Саре
Average Level of imporeported Beef				West	State	Natal	2.0 (1)	Саре	Cape
Level of impores reported  Beef  Eastern Cap	ortance scale: 1	= one case	e, 2 = more	West than on	State e case b	Natal	2.0 (1) en and 3 =	Саре	Cape
Level of imporeported  Beef  Eastern Cap Alexandria,	ortance scale: 1	= one case	e, 2 = more	West than on	State e case b	Natal	2.0 (1) en and 3 =	Саре	Саре
Level of impore reported  Beef  Eastern Cap Alexandria,	ortance scale: 1	= one case	e, 2 = more	West than on	State e case b	Natal	2.0 (1) en and 3 =	Саре	Саре
Level of imporeported  Beef  Eastern Cap Alexandria, Beef: 2  Other	ortance scale: 1	= one case	e, 2 = more	West than on	State e case b	Natal  ut less than to	2.0 (1) en and 3 =	Саре	Cape
Level of imporeported  Beef  Eastern Cap Alexandria, Beef: 2  Other	ortance scale: 1  De Riverview Tra	= one case	e, 2 = more	west than on	e case b	Natal  ut less than to	2.0 (1) en and 3 = 2.0 (1)  Eastern	more than :	Cape  10 cases  Northern
Level of imporeported  Beef  Eastern Cap Alexandria, Beef: 2  Other  PROVINCE  Average	ortance scale: 1  De Riverview Tra	= one case  ding Vet (  Gauteng  2.0 (2)	e, 2 = more  Consulting  Limpopo	west than on Service North	e case b	Natal  ut less than to	2.0 (1) en and 3 = 2.0 (1)  Eastern Cape  1.5 (2)	Western Cape	Cape  10 cases  Northern Cape
Level of imporeported  Beef Eastern Cap Alexandria, Beef: 2 Other  PROVINCE  Average  Level of imporeported	ortance scale: 1  De Riverview Tra	= one case  ding Vet (  Gauteng  2.0 (2)	e, 2 = more  Consulting  Limpopo	west than on Service North	e case b	Natal  ut less than to	2.0 (1) en and 3 = 2.0 (1)  Eastern Cape  1.5 (2)	Western Cape	Cape  10 cases  Northern Cape
Level of impore reported  Beef  Eastern Cap Alexandria, Beef: 2  Other  PROVINCE  Average  Level of impore reported	ortance scale: 1  De Riverview Tra	= one case  ding Vet (  Gauteng  2.0 (2)  = one case	e, 2 = more  Consulting  Limpopo	west than on Service North	e case b	Natal  ut less than to	2.0 (1) en and 3 =  2.0 (1)  Eastern Cape  1.5 (2) en and 3 =	Western Cape	Cape  10 cases  Northern Cape

Gauteng									
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2									
Solanum pois	oning								
Sheep: 2									
<i>Aspergillus</i> po	oisoning in inten	sive sheep	barley spro	outs					
Eastern Cap	e								
Adelaide, Ad	delaide Veterii	nary Clinic	:						
Beef: 2									
Plant poisonir	ng from bulbous	plants							
Alexandria,	Alexandria Pla	atteland S	preekkam	er					
Dairy: 1			-						
Western Ca	pe								
	Piketberg Dier	ehospitaa	l						
Sheep: 2									
	potato weed - o	rommon <i>He</i>	eliotronium.	Plant gro	owina in	harvested oa	t fields, on	lv green plai	nt. Have only
	sheep, not in c		moti opiaiin	i idile giv	g	Tidi Vested Ge	ic ricids, ori	i, green plai	ici riave oili,
Poisonin	gs								
<b>Urea Pois</b>	oning								_
		_		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape
				TT CSC	Juice	rtucui	cupe	Cupe	Cupc
					1.0				
Average				2.0(1)	1.0	1.0(1)			
Average				2.0 (1)	(1)	1.0 (1)			
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
reported									
Dare				2.0 (1)		1.0 (1)			
Beef				2.0(1)		1.0 (1)			
					1.0				
Sheep					(1)				
					(1)				
North West									
Brits, Brits I	Dierekliniek								
Beef: 2									
Free State									
	Rowelsfontein	veearts S	Spreekkan	ner					
Sheep: 1									
Kwazulu-Na									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1									
a 1 5"									
<b>Snake Bit</b>	te .								
DROVINCE	Mnumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	riiibobo	West	State	Natal	Cape	Cape	Cape
					1.5				
Average									
					(4)				
Level of imported	ortance scale: 1	= one case	e, $2 = more$	than one	e case b	ut less than t	en and 3 =	more than :	10 cases

reported

Beef					1.7 (3)				
Sheep					1.0 (1)				
Free State									
	ocolan Dierek	liniek							
Beef: 1									
	Ladybrand Die	erekliniek							
Beef: 2									
	Rowelsfontein	veearts S	Spreekkan	ner					
Sheep: 1	inburg Dierek	liniak							
Beef: 2	iliburg Dierek	iiiiiek							
Blue-gree	en algae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								2.0(1)	
Western Ca	pe								_
	orge Animal Ho	ospital							
Dairy: 2									
Copper P	oisonina								
	oisoiiiig								_
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo					_	_
PROVINCE Average				West	State	Natal	Cape	Cape	<b>Cape</b> 2.0 (1)
PROVINCE  Average  Level of imporeported	Mpumalanga			West	State	Natal	Cape	Cape	2.0 (1) 10 cases
PROVINCE  Average  Level of imporeported  Sheep	Mpumalanga ortance scale: 1			West	State	Natal	Cape	Cape	<b>Cape</b> 2.0 (1)
Average Level of imporeported Sheep Northern Ca De Aar, De A	Mpumalanga ortance scale: 1 ape Aar Veterinary	= one case	e, 2 = more	West	State e case b	<b>Natal</b> ut less than to	Cape	Cape	2.0 (1) 10 cases
Average Level of imporeported Sheep Northern Ca De Aar, De A	Mpumalanga ortance scale: 1	= one case	e, 2 = more	West	State e case b	<b>Natal</b> ut less than to	Cape	Cape	2.0 (1) 10 cases
Average Level of imporeported Sheep Northern Ca De Aar, De A Sheep: 2 Geelsiekte at	Mpumalanga ortance scale: 1 ape Aar Veterinary	= one case	e, 2 = more	West	State e case b	<b>Natal</b> ut less than to	Cape	Cape	2.0 (1) 10 cases
Average Level of imporeported Sheep Northern Ca De Aar, De A Sheep: 2 Geelsiekte at Chemical	Mpumalanga  ortance scale: 1  ape  Aar Veterinary  abattoirs - copp	= one case Clinic Der and plan	e, 2 = more	West	State e case b	<b>Natal</b> ut less than to	Cape	Cape	2.0 (1) 10 cases

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 (1)	
Sheep		3.0 (1)	

Gauteng

Hammanskraal, Themba Animal Clinic

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1

Suspected lead poisoning

Kwazulu-Natal

**Newcastle, Ncanduvet Newcastle** 

Sheep: 3

Farmer dosed undiluted Embamin to 40 lamb - 30 died of selenium poisoning

Pongola, Pongola Animal Clinic

Beef: 1

Chlorfenvinphos

Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			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	2.00	1)	100	<b>1</b> )	
DECI	2.0 (	1)	1.0 (	_ <b>_</b> <i> </i>	

Sheep 2.0(1)

Limpopo

Mokopane, Dr Henk Visser

Beef: 2 **North West** 

Christiana, Christiana Dierehospitaal

Beef: 1 Lood

**Northern Cape** 

De Aar, De Aar Veterinary Clinic

Sheep: 2

Geelsiekte at abattoirs - copper and plant poisoning could play a role

#### **Macro Nutritional Problems Energy deficiency** Kwazulu-Eastern Western Northern North Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.3(3)2.5 (4) **Average** 2.0(2)3.0(8) 3.0 (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)	2.3 (3) 2.8 (4)	3.0 (2)	3.0 (1)	3.0 (2)
Dairy			3.0 (2)	1.0(1)	
Sheep	2.0 (1)	3.0 (1)	3.0 (2)	3.0 (1)	3.0 (2)
Goat			3.0 (2)	3.0 (1)	3.0 (1)

#### **Mpumalanga**

# **Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2
North West

# **Christiana, Christiana Dierehospitaal**

Beef: 3

# Rustenburg, Bergbos Dierekliniek

Beef: 2

# Ventersdorp, Ventersdorp Dierekliniek

Beef: 2
Free State

# Hertzogville, Hertzogville Dierekliniek

Beef: 2

# Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

### Parys, Parys Dierehospitaal

Beef: 3

Bovine impaction of digestive tract due to late rains, poor dry grazing conditions

# Winburg, Winburg Dierekliniek

Beef: 3
Eastern Cape

### **Adelaide, Adelaide Veterinary Clinic**

Beef: 3, Sheep: 3, Goat: 3

### Alexandria, Alexandria Platteland Spreekkamer

Dairy: 3

# Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3, Goat: 3

**Western Cape** 

# Caledon, Caledon Dierekliniek

Dairy: 1

#### **Oudtshoorn, Ostrimed**

Beef: 3

Fibre deficiency, due to drought. Associated problems as animals are kept in kraal.

Sheep: 3, Goat: 3

### **Northern Cape**

# Colesberg, Karoo Veterinary Hospital

Beef: 3 Drought Sheep: 3

### Postmasburg, Postmasburg Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

# **Protein deficiency**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)		2.5 (2)	2.0 (1)		2.7 (9)		2.8 (5)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)	1.0 (1)		2.5 (2)	2.0 (1)		2.3 (3)		2.5 (2)
Dairy							2.5 (2)		
Sheep	1.0(1)						3.0 (2)		3.0 (2)
Goat	1.0 (1)								
							3.0 (2)		3.0 (1)
Beef: 1, Shee Gauteng Hammanski Beef: 1 North West Christiana, 6 Beef: 3 Rustenburg Beef: 2 Free State Winburg, W Beef: 2 Eastern Cap	four Diereklin ep: 1 raal, Themba A Christiana Die , Bergbos Dier linburg Dierek	Animal Cli rehospita rekliniek liniek	al						
	delaide Veterii	nary Clinic	3						
Beef: 3, Shee									
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2 <b>Humansdor</b> Beef: 1  Poor condition	<b>p, Humansdor</b> n	p Veterina	ary Clinic						
	 , Steynsburg D	ierehospi	taal						
Beef: 3, Dairy	y: 3, Sheep: 3, C								
Northern Ca	•								
	Karoo Veterina	ary Hospit	al						
Beef: 3									
Drought									
Sheep: 3	rg, Postmasbu	ra Dioroki	iniak						
Beef: 2, Shee	•	ig Dieleki	IIIICK						
	te deficiency	/							^

North Free Kwazu West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu-

Eastern Western

Cape

Cape

Northern

Cape

Average				3.0 (1)	2.5 (2)				1.5 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				3.0 (1)	2.5 (2)				1.5 (2)
	Christiana Die	rehospita	al						
Beef: 3									
Free State	loopstad Diere	akliniak							
Beef: 3	ioopstau Diere	EKIIIIEK							
	inburg Dierek	liniek							
Beef: 2									
Northern Ca	ape								
	rg, Postmasbu	rg Dierekl	iniek						
Beef: 2									
<b>Upington, U</b> Beef: 1	Ipington Veea	tsenyklin	iek						
Calcium (	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average					1.7 (3)			2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Dairy					1.0 (1)			2.0 (1)	
Sheep					2.0 (1)				
Free State									
	Kroonstad Die	rehospita	al						
Sheep: 2	Ladudous de Bi								
-	Ladybrand Die	erekliniek							
Dairy: 1 Winburg W	inburg Dierek	liniak							
Beef: 2	induig Dielek	IICK							
Western Ca	pe								
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
	ıtritional P	roblem	S						

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average							2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Goat							2.0(1)		
Eastern Cap	oe .								
	et, Camdeboo	Veterina	y Clinic						
Goat: 2									
Zinc defic	ciency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average								3.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Dairy								3.0 (1)	
Western Ca	ре								
<b>George, Ge</b> Dairy: 3	orge Animal H	ospital							
Selenium	deficiency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
PROVINCE Average		Gauteng	Limpopo		State				Саре
<b>Average</b> Level of impo				West 3.0 (1)	2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average	Mpumalanga			West 3.0 (1)	2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average Level of impore ported  Dairy	Mpumalanga			West 3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average Level of impore reported  Dairy  Sheep	Mpumalanga			3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average  Level of impore reported  Dairy  Sheep  Goat	Mpumalanga  ortance scale: 1			3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1) 10 cases
Average  Level of impore ported  Dairy  Sheep Goat  North West Christiana,	Mpumalanga  ortance scale: 1	= one case	e, 2 = more	3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1) 10 cases
Average  Level of impore ported  Dairy  Sheep  Goat  North West Christiana, Sheep: 3	Mpumalanga  ortance scale: 1	= one case	e, 2 = more	3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1) 10 cases
Average  Level of impore reported  Dairy  Sheep  Goat  North West Christiana, Sheep: 3  Free State	Mpumalanga  ortance scale: 1  Christiana Die	= one case	e, 2 = more	3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average Level of impore reported  Dairy Sheep Goat North West Christiana, Sheep: 3 Free State Kroonstad,	Mpumalanga  ortance scale: 1	= one case	e, 2 = more	3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1)
Average Level of imporeported  Dairy Sheep Goat North West Christiana, Sheep: 3 Free State	Mpumalanga  Ortance scale: 1  Christiana Die  Kroonstad Die	= one case	e, 2 = more	3.0 (1)	2.0 (1) e case b  2.0 (1)	Natal	Cape	Cape	2.0 (1)

Goat: 2									
Magnesium deficiency									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.5 (2)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							3.0 (1)		
Goat							2.0 (1)		
Goat: 2	oe et, Camdeboo , Steynsburg D								
Vitamin <i>I</i>	A deficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (3)	2.2 (9)			1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				3.0 (2)	2.0 (5)			1.0 (1)	
Dairy					2.0 (1)				
Sheep				3.0 (1)	2.7 (3)				
North West									
Beef: 3, Shee	Christiana Die	renospita	aı						
	stad, Leeudori	ngstad Di	erekliniek						
Free State									
Ciocolan, Ci Beef: 1	ocolan Dierek	liniek							
Hoopstad, F	loopstad Dier	ekliniek							
Beef: 3, Shee		robosnita	al						
	Kroonstad Die y: 2, Sheep: 3	enospita	al						
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee		linick							
<b>Winburg, W</b> Beef: 2	inburg Dierek	шпек							
/CCI . Z									

Western Ca	pe								
Oudtshoorn	, Ostrimed								
Beef: 1									
Vitamin A/Zin	c, Biotin deficie	ncy/ Derma	atitis						
Vitamin E	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep								2.0 (1)	
Western Ca	pe								
	, Vredenburg	Dierehosn	itaal						
Sheep: 2	,								
	vitamin B 1 defi	ciency							
	ctorial Dise	·	nditions						
- Iditi Idi									
Abortions	5						,		^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.5 (2)	2.2 (5)		1.0 (1)	2.0 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	2.0 (1)			2.5 (2)	2.0 (4)		1.0(1)		
Dairy								2.0 (6)	
Sheep					3.0 (1)				
Mpumalang	a								
	four Diereklin	iek							
Beef: 2									
<b>North West</b>									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
	o, Ventersdorp	Diereklin	iek						
Beef: 2									
Free State	in Dr.Ctanbar	Wessel							
	in, Dr Stephar	wessels							
Beef: 2	loonstad Dis-	akliniak							
Beef: 3, Shee	loopstad Diero n: 3	zkiiiiek							
	Ladybrand Die	erekliniek							
Beef: 1									

Winburg, W	inburg Dierek	liniek							
Beef: 2									
Eastern Cap									
Humansdor	p, Humansdor	p Veterina	ary Clinic						
Beef: 1									
<b>Western Ca</b>	ре								
Caledon, Ca	ledon Dierekli	niek							
Dairy: 2									
	jerberg Diereh	ospitaal I	Darling						
Dairy: 2									
	, Dr Otto Krie	k							
Dairy: 2	.,								
	, Invitrotech								
Dairy: 2	,, ====================================								
4 Cases									
	Riversdal Dier	ekliniek							
Dairy: 1									
	n, Swellendam	Dierehos	nitaal						
Dairy: 3	ı, owenendanı	Dici ciioo	pitaai						
Daily. 3									
Stillbirth	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				3.0 (2)			2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					3.0 (1)				
Dairy								2.0 (1)	
Sheep					3.0 (1)				
Goat	1.0(1)								
Mpumalang									
Nelspruit, N	lelspruit Anima	al Hospita							
Goat: 1									
Free State									
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 3, Shee	-								
Western Ca									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Abscesse	S								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	1.4 (5)	1.3 (3)	2.0 (3)	2.2 (5)	1.8 (4)	2.8 (5)	1.0 (3)	
Level of imported	ortance scale: 1	= one case, 2	2 = more than one		ut less than to	en and 3 =	more than 1	0 cases
Beef	1.4 (5)	2.0 (1)	2.0 (1)	2.3 (3)	2.0 (1)		1.0 (2)	
Sheep			2.0 (1)	2.0 (2)	1.5 (2)	3.0 (2)	1.0 (1)	
Goat		1.0 (2)	2.0 (1)		2.0 (1)	2.7 (3)		
Mpumalang								
	four Diereklin	iek						
Beef: 1								
	irootvlei Diere	kliniek						
Beef: 1								
	<b>Longtom Dier</b>	ekliniek						
Beef: 2		iale la constant						
	ess due to high t							
Beef: 2	lelspruit Anima	аі поѕрісаі						
	Cape Cross Vol	ksrust Diere	hosnitaal					
Beef: 1	ape cross vor	No. ase siere	noopicaa.					
Gauteng								
_	spruit, Kerkstr	aat Dierekli	niek					
Beef: 2	- <b>-</b>							
Hammansk	raal, Themba A	Animal Clinic	:					
Goat: 1								
Pretoria, Or	nderstepoort A	cademic Ho	spital and Produ	iction A	nimal Clinic	3		
Goat: 1								
	oh adenitis (CLA	)						
North West								
	Klerksdorp Di	erehospitaa						
Sheep: 2, Go								
	stad, Leeudori	ngstad Dier	ekliniek					
Beef: 2	os on white line	- nuce ctinks						
Free State	es on white line	- puss, suitks						
	, Greylingsrust	t Dierespree	kkamer					
Beef: 2	,,	. 2.0.05p.00						
	loopstad Diere	ekliniek						
Beef: 3, Shee								
Ladybrand,	Ladybrand Die	erekliniek						
Sheep: 1								
	inburg Dierek	liniek						
Beef: 2								
Kwazulu-Na		.,						
-	n, Camperdov	vn Vet Clinic						
Sheep: 1	ahadaniti a							
Caseous lymp		loozetco						
	yheid Privaat \ ep: 2, Goat: 2	reeartse						
Eastern Cap								
Lastern Cap	<i></i>							

Graaff-Rein	et. Camdeboo								
	cy camacac	veterman	y Clinic						
Goat: 2									
	et, Graaff Reir	net Veteri	nary Clinic	:					
Sheep: 3, Go									
	, Steynsburg D	Dierehospi	itaal						
Sheep: 3, Go									
Western Ca									
Ceres, Cere	s Veterinary H	ospital							
Beef: 1									
Calf with abs	cess in the neck	area							
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1, Shee	p: 1								
Corynebacter	rium pseudotube	erculosis							
Abscesse	s in general								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.0				
Average		1.0 (1)			(5)	2.0 (1)		2.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		1.0 (1)			2.0 (3)	2.0 (1)			
Dairy								2.0 (1)	
Sheep					2.0 (2)				
Gauteng									
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С		
Beef: 1									
Preputial abs	cess								
Free State									
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 1, Shee									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Western Ca	ре								
	jerberg Diereh	ospitaal I	Darling						
Dairy: 2									
Bladder s	tones								^
DDOVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average					1.3 (4)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					1.3 (4)				
Sheep: 2 <b>Ladybrand,</b> Sheep: 1 <b>Philippolis,</b> Sheep: 1	Kroonstad Die Ladybrand Die Rowelsfonteir land Dierehos	erekliniek n veearts S		ner					
Sheep: 1									
Blindness	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.3 (6)		1.0 (1)		2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)				2.2 (5)				
Dairy							1.0(1)		
Sheep					3.0 (1)				
Goat									2.0(1)
Mpumalang Grootvlei, G	a Brootvlei Diere	kliniek							
Beef: 1									
Free State									
Hertzogville Beef: 1	e, Hertzogville	Diereklin	iek						
	loopstad Diere	ekliniek							
Beef: 3, Shee									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
	Ladybrand Die	erekliniek							
Beef: 2 Winburg W	inburg Dierek	liniek							
Beef: 3	induig Dielek	CR							
Eastern Cap	e								
_	Alexandria Pla	atteland S	preekkam	ner					

	rg, Postmasbu	rg Dierek	liniek						
Goat: 2									
Bloat									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				1.3 (4)	1.0 (2)		2.0 (4)	1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.3 (4)			2.0 (1)	1.0 (1)
Dairy						1.0(1)		2.0 (2)	
Sheep	2.0(1)							2.0(1)	
Goat						1.0(1)			
Mpumalang	a					1.0 (1)	<u> </u>		
	a irootvlei Diere	kliniek							
Sheep: 2									
Free State									
Bultfontein,	Greylingsrust	: Dierespr	eekkamer	•					
Beef: 1									
Ficksburg, C	Dosvrystaat Di	ere Produ	ıkte						
Beef: 1									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	tcourt Vet Clir	nic							
Dairy: 1									
	Mtubatuba Ar	nimal Clin	ic						
Goat: 1									
Western Ca									
	y, Invitrotech								
Dairy: 2 2 Cases									
	Bay, Plettenb	ora Pov A	Doit-						
Beef: 2	bay, Piettellb	erg bay A	KEILZ						
	n pasture and lu	icerne feed	l. One dead	l one sa	ved by d	oing a rumen	otomy		
	Riversdal Dier		One acac	., כווכ סמ	. ca by a	ong a rainch			
Dairy: 2, She									
Northern Ca									
	Ipington Veea	rtsenyklin	iek						
Beef: 1									
Blue udd	er								_

**Northern Cape** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.3 (3)		2.5 (2)	2.0 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Dairy								1.0(1)	
Sheep		1.0 (1)			1.3 (3)		3.0 (1)	2.3 (3)	
Goat	1.0(1)						2.0 (1)		
Mpumalang	а								
Nelspruit, N	elspruit Anima	al Hospita	ıl						
Goat: 1									
Gauteng									
	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 1									
Free State	)	ana Duada	.l.t.a						
	Oosvrystaat Di	ere Produ	ikte						
Sheep: 1									

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1 **Eastern Cape** 

**Graaff-Reinet, Camdeboo Veterinary Clinic** 

Goat: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape

Oudtshoorn, Ostrimed

Sheep: 2 Riversdal Dierekliniek

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

**Swellendam, Swellendam Dierehospitaal** 

Sheep: 3

Diarrhoea									
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.9 (7)	2.0 (1)	2.0 (2)	3.0 (6)	2.4 (15)	1.8 (10)		2.0 (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	1.8 (5)		2.0 (1)	3.0 (3)	2.6 (8)	2.3 (4)		
Dairy					1.5 (2)	2.5 (2)	2.0 (1)	
Sheep	2.0 (1)	2.0 (1)	2.0 (1)	3.0 (3)	2.4 (5)	1.0 (2)		
Goat	2.0 (1)					1.0 (2)		1.5 (2)

#### Mpumalanga

## **Balfour, Balfour Dierekliniek**

Beef: 1

#### Grootvlei, Grootvlei Dierekliniek

Beef: 2

#### Middelburg, Middelburg Dierehospitaal

Beef: 3

#### Standerton, Econovet

Beef: 2, Sheep: 2

#### **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 1, Goat: 2

#### Gauteng

## Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2 **Limpopo** 

## **Bela Bela, Artemis Veterinary Services**

Sheep: 2

Sudden diarrhoea in 9 sheep, treated, recovered

## **Tzaneen, ZZ2 Farm Practice**

Beef: 2

## North West Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

## Stella, Stella Dierekliniek

Beef: 3, Sheep: 3

## Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3

#### **Free State**

## **Bultfontein, Greylingsrust Dierespreekkamer**

Sheep: 2

## Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 1, Sheep: 2

#### Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Diarrhoea in calves less than 2 weeks of age, laboratory results *Cryptosporidium E. coli* or both. Halocur works well, but is still not registered. *Cryptosporidium* occurs under total extensive conditions.

Sheen: 2

Cryptosporidium E. coli under 2 weeks of age.

## Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

#### Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 2, Sheep: 3

#### Reitz, Riemland Dierehospitaal

Beef: 2

## Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3 Calves 10 plus Winburg, Winburg Dierekliniek Beef: 3 Calves 10 plus Winburg, Winburg Dierekliniek Beef: 3, Daily: 3 Estcourt, Estcourt Vet Clinic Beef: 4, Daily: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Vecartse Beef: 3, Daily: 2 Vryheid, Vryheid Privaat Vecartse Beef: 4 Daily: 2 Dail	Vrede, Vred	le Dierehospita	aal							
Winburg, Winburg Dierekliniek Beef: 3, Dairy: 3 Estcourt, Estcourt Vet Clinic Beef: 3, Dairy: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 3, Dairy: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 3, Dairy: 2 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Upington, Upington Veeartsenykliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North State  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  Upington, Upington Veeartsenykliniek Goat: 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  Upington, Upington Veeartsenykliniek Goat: 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  Upington, Upington Veeartsenykliniek Goat: 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  Upington, Upington Veeartsenykliniek Goat: 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  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Not Brucella ovis  Eye Cancer  Awarane  Lingpopo North Free Kwazulu-Natal Ratal Rata										
Beef: 3 Kwazulu-Natal Dundee, Endumeni Herd health Beef: 3, Dainy: 3 Estcourt, Estcourt Vet Clinic Beef: 1, Sheep: 1, Goat: 1 Pryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Sheep: 2 Western Cape Oudshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  Average  1.0 (1) 1.0 2.0 (1) 1.0 (2.0 (1) 1.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) 4.0 (	Calves 10 plu	iS								
Kwazulu-Natal Dundee, Endumeni Herd health Beef: 3, Dairy: 3 Estcourt, Estcourt Vet Clinic Beef: 1, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheld, Vryheld Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu-Natal Rate Northern Cape  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 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  Average 1.0 (1) 1.0 (1) 1.0 (1)	Winburg, W	inburg Dierek	liniek							
Dundee, Endumeni Herd health Beef: 3, Dainy: 3 Beef: 2, Dainy: 2, Sheep: 1, Goat: 1 Prongola, Progola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheld, Vryheld Privaat Vecartse Beef: 3, Sheep: 1, Goat: 1 Vryheld, Vryheld Privaat Vecartse Beef: 3, Sheep: 1, Goat: 1 Vryheld, Vryheld Privaat Vecartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dainy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West  Free Kwazulu- State Natal  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  Sheep  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  Average  1.0 (1)  North Free Free Kwazulu- State Natal  2.0 (1)  Free Kwazulu- State Natal  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  Average  1.0 (1)  Northern Cape North	Beef: 3									
Beef: 3, Dairy: 3 Estcourt, Estcourt Vet Clinic Beef: 2, Dairy: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 3, Dairy: 2 Vryheid, Vryheid Privaat Veeartse Beef: 3 Beef: 3 Beef: 3 Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 3 Vestern Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape 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  Beef  2.0 (1)  Sheep  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape  Average  1.0 (1)  Average  1.0 (1)  1.0  2.0 (1)  Average Northern Cape Cape Northern Cape Cape Cape Cape Cape Cape Cape Cape	Kwazulu-Na	atal								
Estcourt, Estcourt Vet Clinic Beef: 2, Dairy: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  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  Province Mpumalanga Gauteng Limpopo North State Natal  Epididymitis  Average  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  Province Mpumalanga Gauteng Limpopo North State Natal  Example Northern Cape  Outshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  Average  1.0 (1)  North West State Kwazulu- Eastern Western Northern Cape  Cape  Northern Cape Cape Cape Cape Cape Cape Cape Cape	Dundee, En	dumeni Herd h	nealth							
Beef: 2, Dairy: 2, Sheep: 1, Goat: 1 Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  Average  2.0 (1)  Sheep  PROVINCE Mpumalanga Gauteng Limpopo North Winburg, Winburg Dierekliniek Beef: 2 Western Cape  Oudshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  Average  1.0 (1)  Average  1.0 (1)  Average  1.0 (1)  2.0 (1)  Limpopo North West State Kwazulu- Eastern Cape Cape Cape Cape  Average Cape Cape Cape Cape Cape Cape Cape Cap	Beef: 3, Dairy	y: 3								
Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- 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  2.0 (1) Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep: 2  Western Cape  West Ratal  Average  1.0 (1)  Sheep  1.0 (1)  Sheep  1.0 (1)  Darling Tygerberg Dierekliniek Beef: 2 Western Cape  Western Cape  Northern Cape	Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1, Sheep: 1, Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Cape Cape 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  Beef  2.0 (1)  Sheep  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- Eastern Cape Cape  Northern Cape  Average  1.0 (1)  Average 1.0 (1)  Average 1.0 (1)  Average 1.0 (1)	Beef: 2, Dairy	y: 2, Sheep: 1, C	Goat: 1							
Vryheid, Vryheid Privaat Veeartse Beef: 3 Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported than 10 case	Pongola, Po	ngola Animal	Clinic							
Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West  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  Beef  Sheep  1.0 (1)  Sheep  PROVINCE Mpumalanga Gauteng Limpopo North Sheep: 2  Northern Cape  2.0 (1)  2.0 (1)  2.0 (1)  Sheep  PROVINCE Mpumalanga Gauteng Limpopo North Sheep: 2  Northern Cape  1.0 (1)  North Myucella ovis  Eye Cancer  Average  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)	Beef: 1, Shee	ep: 1, Goat: 1								
Western Cape Darling, Tygerberg Dierehospitaal Darling Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  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 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Northern Cape  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- State Restern Northern Cape  Average 1.0 (1)	Vryheid, Vry	yheid Privaat \	/eeartse							
Darling, Tygerberg Dierehospitaal Darling Dalry: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  PROVINCE Minburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Nothern Cape Oudtshoorn, Ostrimed Sheep: 2  Northern Cape Oudtshoorn, Ostrimed Sheep: 2  Noth Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  Average 1.0 (1)  2.0 (1)  2.0 (1)	Beef: 3									
Dairy: 2 Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  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)  Sheep 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Northern Cape Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  1.0 (1) 1.0 (1) 1.0 (1)	Western Ca	pe								
Northern Cape Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape 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  Beef  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep: 2  Western Cape  Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  Northern Cape	Darling, Tyg	jerberg Diereh	ospitaal I	Darling						
Postmasburg, Postmasburg Dierekliniek Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Cape Cape 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  Beef  2.0 (1)  Sheep  2.0 (1)  Sheep:  Eve Cancer  PROVINCE Mpumalanga Gauteng Limpopo North Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Northern Cape  1.0 (1) 1.0 (1) 1.0 (1)	Dairy: 2									
Goat: 2 Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo North West State State Western Cape 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  Beef  Sheep  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State  1.0  1.0  2.0(1)  2.0(1)  2.0(1)  Average  Average  1.0(1)  1.0  2.0(1)  1.0  2.0(1)  Average  1.0(1)	Northern Ca	эре								
Upington, Upington Veeartsenykliniek Goat: 1  Epididymitis  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Rate Cape Cape  Average  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  2.0 (1)  Sheep  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State  1.0 (1)  North Free Kwazulu-Rate Kwazulu-Rate Rate Rate Rate Rate Rate Rate Rate	Postmasbur	rg, Postmasbu	rg Dierek	liniek						
Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape  2.0 (1)  Sheep: 2 Northmed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Sta										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape 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  Beef 2.0 (1)  Sheep 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape  1.0 (1)  Average 1.0 (1)	Upington, U	pington Veear	rtsenyklin	iek						
PROVINCE Mpumalanga Gauteng Limpopo West Free Kwazulu- Rastern Cape Cape  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)  Sheep 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State  1.0 (1)  Northern Cape Western Northern Cape Cape Northern Cape Northern Cape Cape  Northern Cape Cape Northern Cape Cape Cape Cape Cape Cape	Goat: 1									
Average  Average  Limpopo West State Natal Cape Cape  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  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Sheep  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2  Not Brucella ovis  Eye Cancer  Average  1.0 (1)  North Free Kwazulu-Cape Cape Cape  Vestern Cape Cape  2.0 (1)  2.0 (1)  Average  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)	Epididym	itis								^
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  2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Northern Cape  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Beef 2.0 (1)  Sheep 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rastern Cape Cape  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  3.0 (1)	Average								2.0 (1)	
Sheep 2.0 (1)  Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Cape Cape Cape  1.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  3.0 (1)		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than :	10 cases
Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  1.0 (1)  2.0 (1) 1.0 (1)	Doof					2.0				
Free State Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  1.0 (1)  2.0 (1) 1.0 (1)	Deer									
Winburg, Winburg Dierekliniek Beef: 2 Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape  1.0 (1) 1.0 (1)									2.0 (1)	
Beef: 2  Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratel Cape Cape  1.0 (1) 1.0 (1)	Sheep								2.0 (1)	
Western Cape Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratel Cape Cape  1.0 (1) 1.0 (1)	Sheep Free State	'inhura Dierek	liniek						2.0 (1)	
Oudtshoorn, Ostrimed Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape  1.0 (1) 1.0 (1) 1.0 (1)	Sheep Free State Winburg, W	'inburg Dierek	liniek						2.0 (1)	
Sheep: 2 Not Brucella ovis  Eye Cancer  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape  1.0 (1) 1.0 (1) 1.0 (1)	Sheep Free State Winburg, W Beef: 2		liniek						2.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape Cape	Sheep Free State Winburg, W Beef: 2 Western Ca	pe	liniek						2.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northern Cape  1.0 (1) 2.0 (1) 1.0 (1)	Sheep Free State Winburg, W Beef: 2 Western Ca Oudtshoorn	pe	liniek						2.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northern Cape  1.0 (1) 2.0 (1) 1.0 (1)	Sheep Free State Winburg, W Beef: 2 Western Ca Oudtshoorn Sheep: 2	pe a, Ostrimed	liniek						2.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape  1.0 (1) 2.0 (1) 1.0 (1)	Sheep Free State Winburg, W Beef: 2 Western Ca Oudtshoorn Sheep: 2	pe a, Ostrimed	liniek						2.0 (1)	
Average (1)(1) (1)	Sheep Free State Winburg, W Beef: 2 Western Ca Oudtshoorn Sheep: 2 Not Brucella	pe , Ostrimed ovis	liniek						2.0 (1)	^
	Sheep Free State Winburg, W Beef: 2 Western Ca Oudtshoorn Sheep: 2 Not Brucella	pe n, Ostrimed ovis		Limpopo		(1)			Western	

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

reported	ortance scale. 1	- one case	c, 2 – more	culair on	c case b	at icss than t	cii dila 5 –	more triair	ro cases
Beef	1.0 (1)				1.0 (1)				
Dairy					1.0 (1)		2.0 (1)	1.0 (1)	
Mpumalang									
	irootvlei Diere	kliniek							
Beef: 1									
Free State									
	Kroonstad Die	rehospita	al						
Beef: 1									
	Ladybrand Die	erekliniek							
Dairy: 1									
Eastern Cap	oe Alexandria Pla	attaland G	Sprookkam	105					
Dairy: 2	Alexanuria Pi	atteranu S	ргееккап	ег					
Western Ca	no								
	y, Invitrotech								
Dairy: 1	y, invitiotech								
	All a mar								
Eye infec	tions								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (10)			2.7 (6)	2.6 (19)	1.8 (4)		2.2 (11)	2.0 (3)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.2 (5)			2.7 (3)	2.6 (12)	2.0 (2)		1.7 (3)	2.0 (1)
Dairy					2.0 (1)			2.4 (5)	
Sheep	2.3 (4)			2.7 (3)	2.7 (6)			2.3 (3)	2.0 (1)
Goat	2.0 (1)					1.5 (2)			2.0(1)
Mpumalang									
	four Diereklin	iek							
Beef: 2, Shee		lelimini-							
Beef: 2	irootvlei Diere	кипіек							
	Longtom Dier	akliniak							
Sheep: 2	Longton Dier	CKIIIICK							
	vis eye infection	s in sheen							
	Pets Vet Hosp								
Beef: 2	i eta vet ilosp	ricai							
Standerton,	Econovot								
Beef: 3, Shee									

**Volksrust, Cape Cross Volksrust Dierehospitaal** Beef: 2, Sheep: 2, Goat: 2 **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Stella, Stella Dierekliniek Beef: 3, Sheep: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 2, Sheep: 2 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 3 **Dewetsdorp, Platkop Dierekliniek** Ficksburg, Oosvrystaat Diere Produkte Beef: 1 **Gariepdam, Gariep Dierekliniek** Beef: 2 Moraxella bovis Hertzogville, Hertzogville Dierekliniek Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Sheep: 3 Ladybrand, Ladybrand Dierekliniek Beef: 3, Sheep: 3 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 2 Reitz, Riemland Dierehospitaal Beef: 3, Dairy: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 2, Sheep: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2, Goat: 2 Pongola, Pongola Animal Clinic Goat: 1 Vryheid, Vryheid Privaat Veeartse Beef: 2 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Dairy: 2 **George, George Animal Hospital** Beef: 2, Dairy: 2, Sheep: 2 Malmesbury, Dr Otto Kriek Dairy: 3 Moorreesburg, Tygerberg mooreesburg Sheep: 3 **Oudtshoorn, Ostrimed** 

	ekliniek											
ep: 2												
	Dairy: 2, Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital											
	h Animal	Hospital										
, Swellendam	Dierehos	pitaal										
pe												
g, Postmasbu	rg Dierekl	iniek										
p: 2, Goat: 2												
								_				
Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape				
2.0 (1)				1.5 (2)	2.0 (1)	2.0 (1)		1.0 (2)				
rtance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases				
2.0 (1)				1.5 (2)	2.0 (1)							
								1.0 (1)				
						2.0(1)		1.0(1)				
•												
	iok											
oui Dielekiili	ICK											
( a see d. Dia		_										
Kroonstad Die	renospita	aı										
inburg Dierek	liniek											
heid Privaat \	/eeartse											
_			Beef: 2									
Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic												
	net Veteri	nary Clinic	<b>:</b>									
	net Veteri	nary Clinic	<b>:</b>									
	net Veteri	nary Clinic	:									
et, Graaff Reir pe		nary Clinic	:									
et, Graaff Reir		nary Clinic	:									
et, Graaff Reir pe		•	:									
et, Graaff Reir pe u Dierekliniek	tsenyklin	•						^				
et, Graaff Reir pe u Dierekliniek pington Veear	tsenyklin	iek	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
	2.0 (1)  rtance scale: 1  2.0 (1)  2.0 (1)  respectively.	Mpumalanga Gauteng  2.0 (1)  rtance scale: 1 = one case  2.0 (1)  a  four Dierekliniek  Kroonstad Dierehospita inburg Dierekliniek	Mpumalanga Gauteng Limpopo  2.0 (1)  rtance scale: 1 = one case, 2 = more  2.0 (1)  2.0 (1)  Grant Dierekliniek  Kroonstad Dierehospitaal  inburg Dierekliniek  tal	Mpumalanga Gauteng Limpopo North West  2.0 (1)  rtance scale: 1 = one case, 2 = more than one  2.0 (1)  2.0 (1)  Groun Dierekliniek  Kroonstad Dierehospitaal  inburg Dierekliniek  tal	Mpumalanga Gauteng Limpopo North West 1.5 2.0 (1)  rtance scale: 1 = one case, 2 = more than one case be 2.0 (1)  2.0 (1)  1.5 (2)  1.5 (2)  1.5 (2)	Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal  2.0 (1)  rtance scale: 1 = one case, 2 = more than one case but less than to the cour Dierekliniek  Croonstad Dierekliniek  Croonstad Dierekliniek  Inburg Dierekliniek  Inburg Dierekliniek	Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Cape  2.0 (1)  1.5 (2)  2.0 (1)  2.0 (1)  rtance scale: 1 = one case, 2 = more than one case but less than ten and 3 =  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  3.5 (2)  4.6 (2)  5.7 (2)  5.8 (3)  6.9 (3)  6.9 (3)  6.9 (4)  6.9 (4)  6.9 (5)  6.9 (6)  6.9 (6)  6.9 (7)  6.9 (7)  6.9 (8)  6.9 (	Mpumalanga Gauteng Limpopo West Free State Kwazulu- Cape Cape  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  3.0 (1)  4.0 (1)  4.0 (1)  5.0 (2)  5.0 (1)  6.0 (2)  7.0 (1)  7.0 (1)  7.0 (1)  8.0 (1)  8.0 (1)  9.0				

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)	1.0 (1)	2.0 (2)	2.3 (3)	1.0 (2)		1.3 (3)	
Dairy				·			2.2 (5)	
Sheep		2.0 (1)		1.5 (2)				
Goat					1.0(1)	2.0 (1)		

#### Mpumalanga

## **Balfour, Balfour Dierekliniek**

Beef: 2

#### **Bethal, Bethal Dierekliniek**

Beef: 2

## Middelburg, Middelburg Dierehospitaal

Beef: 1

#### **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 1 Gauteng

#### Hammanskraal, Themba Animal Clinic

Beef: 1

#### **Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2
North West

## **Brits, Brits Dierekliniek**

Beef: 2

## Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2 Free State

## **Bultfontein, Greylingsrust Dierespreekkamer**

Sheen: 1

## Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

## Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

## Winburg, Winburg Dierekliniek

Beef: 3

#### Kwazulu-Natal

## **Newcastle, Ncanduvet Newcastle**

Beef: 1

#### Pongola, Pongola Animal Clinic

Beef: 1, Goat: 1
Eastern Cape

## **Graaff-Reinet, Graaff Reinet Veterinary Clinic**

Goat: 2

## Western Cape

## Caledon, Caledon Dierekliniek

Beef: 1

#### **Ceres, Ceres Veterinary Hospital**

Beef: 2

Two cows with foot rot

## **Darling, Tygerberg Dierehospitaal Darling**

Dairy: 2

Caarra Caa	awaa Awimaal U	a a mital									
	George, George Animal Hospital  Dairy: 3										
	. T										
	, Invitrotech										
Dairy: 2											
3 Cases	Tresubara		L								
	ırg, Tygerberg	mooreesi	burg								
Beef: 1	Diversalal Dies	aldinial.									
	Riversdal Dier	ekiiiiek									
Dairy: 2	ı, Swellendam	Diorobos	nitaal								
Dairy: 2	i, Swellellualli	Dicicios	pitaai								
Lung infection											
									_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.5 (2)				2.0 (7)	1.5 (2)	2.0 (2)	1.8 (5)	2.0 (3)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases		
Beef	1.5 (2)				2.5 (4)			2.0 (1)	2.0 (1)		
Dairy					1.0 (1)	2.0 (1)	2.0 (2)	2.0 (3)			
Sheep					1.5 (2)	1.0 (1)		1.0 (1)	2.0 (2)		
Mpumalang	а										
Balfour, Bal Beef: 2	four Diereklin	iek									
Lydenburg,	Longtom Dier	ekliniek									
Beef: 1											
Free State											
<b>Bloemfonte</b>	in, Dr Stephan	n Wessels									
Beef: 2											
	Greylingsrust	t Dierespr	eekkamer	•							
Sheep: 2											
	Kroonstad Die	rehospita	al								
Sheep: 1											
	Ladybrand Die	erekliniek									
Dairy: 1											
	land Dierehos	pitaal									
Beef: 2	on Vilicons!	oon Dies-	lelimia le								
	on, Viljoenskro	oon Diere	KIINIEK								
Beef: 3 Winburg Winburg Dioroklinick											
Winburg, Winburg Dierekliniek Beef: 3											
Kwazulu-Natal											
Dundee, Endumeni Herd health											
Dairy: 2											
Pongola, Pongola Animal Clinic											
Sheep: 1	<b>J</b>										

Pasteurellosis	•								
Eastern Cap									
		attaland C	Smro okkom						
Dairy: 2	Alexandria Pla	atteiand s	<b>Бргеекка</b> п	ier					
	eterinary Servi	ices Elliot							
Dairy: 2									
Dairy calves,	3 cases								
Western Ca									
	pe jerberg Dierel	ocnitaal l	Darling						
Dairy: 3	jerberg Dierer	iospitaai i	Daring						
	, Invitrotech								
Dairy: 2	, invitiotech								
2 Cases									
	Divoradal Dio	aklimiak							
	Riversdal Dier	ekiiiiek							
Sheep: 1	h Ctallanhaaa	h Amimani	Uaanital						
	h, Stellenbosc	n Animai	Hospitai						
Beef: 2, Dairy									
Northern Ca									
	Ivinia Veearts	KIINIEK							
Sheep: 3									
	Karoo Veterina	ary Hospit	al						
Beef: 2									
	nic fungal myco			es					
	pington Veea	rtsenyklin	iek						
Sheep: 1									
Mastitis in general									
1 Idouido I	n general								_
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo						
PROVINCE Average	Mpumalanga			West	2.0 (3)	Natal 2.0 (1)	Cape	<b>Cape</b> 2.5 (8)	Саре
PROVINCE  Average  Level of impo	Mpumalanga			West	2.0 (3)	Natal 2.0 (1)	Cape	<b>Cape</b> 2.5 (8)	Саре
PROVINCE  Average  Level of imporeported	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2)			West	2.0 (3) e case b	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef	Mpumalanga  1.3 (3)  ortance scale: 1			West	2.0 (3) e case b	Natal  2.0 (1)  ut less than to	Cape	<b>Cape</b> 2.5 (8)	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep	1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)			West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)	= one case		West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal	1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)	= one case		West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
Average Level of imporeported  Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 1 Lydenburg,	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)	= one case		West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin  Longtom Dier	= one case	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2 Volksrust, C	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a  four Diereklin	= one case	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin  Longtom Dier	= one case	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2 Volksrust, C	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin  Longtom Dier	= one case	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2 Volksrust, C Beef: 1 Free State Bloemfonte	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin  Longtom Dier	= one case iek ekliniek ksrust Die	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2 Volksrust, C Beef: 1 Free State Bloemfonte Beef: 3	Mpumalanga  1.3 (3)  pritance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin Longtom Dier Cape Cross Vol  in, Dr Stephan	iek ekliniek ksrust Die	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 1 Lydenburg, Dairy: 2 Volksrust, C Beef: 1 Free State Bloemfonte Beef: 3	Mpumalanga  1.3 (3)  ortance scale: 1  1.0 (2)  2.0 (1)  a four Diereklin  Longtom Diereklin  cape Cross Vol	iek ekliniek ksrust Die	e, 2 = more	West	2.0 (3) e case b 3.0 (1)	Natal  2.0 (1)  ut less than to	Cape	Cape  2.5 (8)  more than	Саре

		<u> </u>							
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	- L - I								
Kwazulu-Na		Clinia							
	ngola Animal	Clinic							
Beef: 2									
Western Ca									
	ledon Dierekli	Iniek							
Dairy: 3	b Dib		N =1!						
	gerberg Dierel	iospitaai i	Darling						
Dairy: 2	Audina al II								
	orge Animal H	ospitai							
Dairy: 3	. D. OH. V.:	1-							
	y, Dr Otto Krie	K							
Dairy: 2	. 7								
	y, Invitrotech								
Dairy: 3									
23 Cases	Discoundal Disc								
	Riversdal Die	rekiiniek							
Dairy: 2		Diamakaa	!						
	n, Swellendam	Dierenos	pitaai						
Dairy: 3	Daniban Chara	D:I-I:	: - l. \\ <i>I</i>						
	Durban Straat	Dierekiin	iek worce	ester					
Dairy: 2									
Navel III									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.0 (1)		1.0 (2)	1.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)						1.0(2)		
	1.0 (1)						1.0 (2)	1.0 (1)	
Dairy								1.0 (1)	
Sheep					1.0 (1)			1.0(1)	
Mpumalang									
Balfour, Bal	four Diereklin	iek							
Beef: 1									
Free State									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Eastern Cap	e								
<b>Graaff-Rein</b>	et, Graaff Rei	net Veteri	nary Clinic	3					
Beef: 1									
<b>Uitenhage,</b> Beef: 1	Uitenhage Die	rehospita	al						
<b>Western Ca</b>	ре								
Oudtshoorn	, Ostrimed								
Sheep: 1									
	h, Stellenbosc	h Animal	Hospital						

Dairy: 1									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)	1.7 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef								2.0 (1)	
Dairy							1.0(1)	1.5 (2)	
Eastern Cap	е								
	Alexandria Pla	atteland S	preekkam	ner					
Dairy: 1 <b>Western Ca</b>	no								
	pe Jerberg Diereh	ospitaal I	Darling						
Beef: 2, Dairy									
	,, Dr Otto Krie	k							
Dairy: 1									
Downer									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.0 (2)		1.5 (2)	3.0 (1)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)			2.0 (1)		2.0 (1)		2.0 (2)
Dairy							1.0(1)	3.0 (1)	
Sheep					2.0 (1)			, , ,	
Gauteng									
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	С		
Beef: 1									
Free State									
	Greylingsrust	t Dierespr	eekkamer						
Sheep: 2	Vroonstad Dia	robossits	al						
Beef: 2	Kroonstad Die	enospita	al						
Eastern Cap	e								
	Alexandria Pla	atteland S	preekkam	ner					
Dairy: 1									
Steynsburg,	, Steynsburg D	Dierehospi	itaal						
Beef: 2									
Western Ca	pe								

#### Malmesbury, Invitrotech Dairy: 3 31 Cases **Northern Cape** Colesberg, Karoo Veterinary Hospital Beef: 3 Postmasburg, Postmasburg Dierekliniek Beef: 1 **Traumatic Reticulo-pericarditis (wire in heart sack)** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape **Average** 1.0(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** 1.0(1)1.0(1) 1.0(1)Dairy Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 1 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Dairy: 1 **Northern Cape** Kathu, Kathu Dierekliniek Beef: 1 Other **North Free** Kwazulu-Eastern Western **Northern PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0(2)3.0(1)**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 **Beef** 1.0(1)Dairy 3.0 (1) 1.0(1)2.0(1)Sheep Gauteng **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 1 Hypospadia Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Cystitis **Western Cape** Malmesbury, Invitrotech Dairy: 3

	tion (9); drop in	production	ı (38); 41 d	eaths						
Northern Ca	-	<b>-</b> 11 1								
	Aar Veterinary	Clinic								
Sheep: 2										
Few wet carc	asses									
Metaboli	ic Diseases									
Acidosis									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (3)	1.0 (2)	1.0 (1)		2.0 (1)	2.0 (1)		2.5 (2)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
reported <b>Beef</b> 2.0 (1)  1.0 (1)										
Dairy	2.0 (1)		1.0 (1)			2.0 (1)				
Dairy	2.0 (1)				2.0	2.0 (1)				
Sheep		1.0 (1)			(1)			2.5 (2)		
Goat	2.0 (1)	1.0(1)				_				
Mpumalang										
	nal Diereklinie	k								
Beef: 2, Dairy			_							
-	elspruit Anim	al Hospita								
Goat: 2										
Gauteng	ima Veterinar	v Concult	ina Booma							
Sheep: 1	iiiia veteiiiiai	y Consuit	ilig Koollis							
	derstepoort A	cademic	Hosnital a	nd Prod	uction /	Animal Clinic	<b>-</b>			
Goat: 1	idei stepoort A	cadenne	iospitai ai	iiu riou	action /	Ammar Cilin	_			
Limpopo										
	Dr Henk Visse	r								
Beef: 1										
Free State										
	Kroonstad Die	rehospita	al							
Sheep: 2	_									
Kwazulu-Na										
•	dumeni Herd h	nealth								
Dairy: 2	no									
Western Ca	pe ledon Dierekli	niek								
Sheep: 2	Cuon Dielekii	CA								
	rg, Tygerberg	moorees	burg							
Sheep: 3	<u> </u>									
	l abomasun	1							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average						2.0 (1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Dairy						2.0(1)					
Kwazulu-Na	atal										
Dairy: 2											
Ketosis									^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average					2.0 (1)	2.0 (1)	3.0 (1)		1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Dairy						2.0(1)					
Sheep					2.0 (1)		3.0 (1)		1.0(1)		
Free State Reitz, Riem Sheep: 2	land Dierehos	pitaal									
Kwazulu-Na	atal										
	dumeni Herd l	health									
Dairy: 2											
Eastern Cap Stevnsburg	e , Steynsburg [	Dierehospi	itaal								
Sheep: 3	, occyniobai g L	oler enosp	itaai								
Northern Ca											
•	Ivinia Veearts	kliniek									
Sheep: 1											
Milk Feve	er								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (3) 1.0 (1) 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)						
Dairy					(1)	1.0 (1)		1.8 (4)			

2.0 Sheep (2)

**Free State** 

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 2, Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal** 

Sheep: 2

Kwazulu-Natal

**Dundee, Endumeni Herd health** 

Dairy: 1

**Western Cape** 

George, George Animal Hospital

Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2	.,		, p. 100-101								
Reprodu	Reproductive diseases										
Dystocia (Difficult Births)											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.7 (7)	1.6 (7)		2.6 (5)	2.1 (18)	2.3 (4)	2.3 (3)	1.6 (5)	2.0 (4)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	l0 cases		
Beef	2.0 (4)	2.0 (3)		2.8 (4)	2.1 (14)	2.3 (4)	2.5 (2)	1.0 (1)	2.0 (2)		
Dairy					1.0 (1)		2.0 (1)	1.8 (4)			
Sheep	1.5 (2)	1.0 (2)		2.0 (1)	2.0 (3)				2.0 (1)		
Goat	1.0(1)	1.5 (2)							2.0 (1)		

#### Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 2, Sheep: 2

**Bethal, Bethal Dierekliniek** 

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2, Sheep: 1

**Nelspruit, Nelspruit Animal Hospital** 

**Volksrust, Cape Cross Volksrust Dierehospitaal** 

Beef: 2 Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 3, Sheep: 1, Goat: 1 Hammanskraal, Themba Animal Clinic **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 1 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2, Goat: 2 **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3, Sheep: 2 Stella, Stella Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 1, Dairy: 1 **Gariepdam, Gariep Dierekliniek** Beef: 2 Dystocia in heifers Hertzogville, Hertzogville Dierekliniek Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 2, Sheep: 2 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3 Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Vrede, Vrede Dierehospitaal Beef: 2 Three cases Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2

**Dundee, Endumeni Herd health** 

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

	Ncanduvet Ne	wcastle								
Beef: 3										
Eastern Cap										
	Alexandria Pla	atteland S	Spreekkam	er						
Dairy: 2										
	et, Camdeboo	Veterina	ry Clinic							
Beef: 2										
	p, Humansdor	p Veterin	ary Clinic							
Beef: 3										
Western Ca										
	gerberg Diereh	iospitaal l	Darling							
Dairy: 1	D'									
	Riversdal Dier	ekliniek								
Dairy: 2	l. <b>G</b> L.II	l. A								
	h, Stellenbosc	n Animai	Hospitai							
Beef: 1	. Curallandan	Diawahaa								
	n, Swellendam	Dierenos	pitaai							
Dairy: 2	Durban Ctuant	Dionaldia	iok Warra	cto-						
worcester, Dairy: 2	Durban Straat	Dierekiin	iek worce	ster						
Northern Ca	_									
Beef: 2	u Dierekliniek	1								
	rg, Postmasbu	ra Diorok	liniak							
	ep: 2, Goat: 2	ig Dielek	IIIIEK							
beer. 2, Silee	p. 2, doat. 2									
<b>Endomet</b>	Endometritis									
			1						_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
PROVINCE Average	Mpumalanga	Gauteng	Limpopo							
Average	Mpumalanga ortance scale: 1			West	State	Natal	Cape	<b>Cape</b> 2.8 (4)	Саре	
Average Level of imporeported				West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average Level of imporeported  Dairy	ortance scale: 1			West	State	Natal	Cape	<b>Cape</b> 2.8 (4)	Саре	
Average  Level of imporeported  Dairy  Western Ca	ortance scale: 1	= one case		West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca	ortance scale: 1	= one case		West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3	ortance scale: 1  pe lledon Dierekli	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3 Heidelberg	ortance scale: 1	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3	pe pledon Dierekli (WC), Heidelb	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale,	ortance scale: 1  pe lledon Dierekli	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2	pe lledon Dierekli (WC), Heidelb Riversdal Dier	= one case iniek erg Diere rekliniek	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2  Swellendan	pe pledon Dierekli (WC), Heidelb	= one case iniek erg Diere rekliniek	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2	pe lledon Dierekli (WC), Heidelb Riversdal Dier	= one case iniek erg Diere rekliniek	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2  Swellendan	pe lledon Dierekli (WC), Heidelb Riversdal Dier	= one case iniek erg Diere rekliniek	e, 2 = more	West	State	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2  Swellendan Dairy: 3  Metritis	pe lledon Dierekli (WC), Heidelb Riversdal Dier	= one case iniek erg Diere rekliniek Dierehos	e, 2 = more kliniek	West	State e case b	Natal	Cape	Cape  2.8 (4)  more than :	Саре	
Average  Level of imporeported  Dairy  Western Ca Caledon, Ca Dairy: 3  Heidelberg Dairy: 3  Riversdale, Dairy: 2  Swellendan Dairy: 3  Metritis	pe lledon Dierekli (WC), Heidelb Riversdal Dier	= one case iniek erg Diere rekliniek Dierehos	e, 2 = more kliniek	west than on	Free State	Natal  ut less than to	en and 3 =	Cape  2.8 (4)  more than:  2.8 (4)  Western Cape	Cape  10 cases  Northern	

Level of imported	ortance scale: 1	= one case, 2 = more	than one o	case but l	ess than te	n and 3 =	more than	10 cases
Beef	1.0 (1)		3.0 (1)	3.0 (1)				
Dairy				2.0 (1)		3.0 (1)	2.5 (4)	
<b>Mpumalang</b>	a							
Balfour, Bal	four Diereklin	iek						
Beef: 1								
North West								
Leeudorings	stad, Leeudori	ingstad Dierekliniek						
Beef: 3								
Free State								
	in, Dr Stephar	n Wessels						
Beef: 3								
	nekal Dierekli	niek						
Dairy: 2								
Eastern Cap								
	, Tenax Vet Cl	inic						
Dairy: 3								
Western Ca								
	ledon Dierekl	iniek						
Dairy: 3								
Darling, Tyg	gerberg Dierel	nospitaal Darling						

Dairy: 3
Riversdale, Riversdal Dierekliniek

Dairy: 1
Swellendam, Swellendam Dierehospitaal

Dairy: 3

Poor cond	ception								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			1.0 (1)	2.0 (2)	2.0 (1)	3.0 (1)	2.0 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	1.0 (1)			1.0 (1)	2.0 (2)			2.0 (1)	
Dairy						2.0(1)		2.0 (3)	
Sheep							3.0 (1)		
Mpumalang Balfour, Bal	a four Diereklin	iek				_		_	_
Beef: 1	iour Dicreitiiii	ICK							
North West									
Klerksdorp, Beef: 1	Klerksdorp Di	erehospit	aal						
Free State									

	ocolan Dierek	liniek									
Beef: 1											
	inburg Dierek	liniek									
Beef: 3											
Kwazulu-Na											
	Underberg Ve	terinary S	urgery								
Dairy: 2											
	Is affecting dairy	y cows with	late embry	onic dea	ths						
Eastern Cap											
	, Steynsburg D	Dierehospit	taal								
Sheep: 3											
Western Ca	-										
	orge Animal H	ospital									
Dairy: 3											
	(WC), Heidelb	erg Dierek	liniek								
Beef: 2											
Malmesbury	y, Dr Otto Krie	k									
Dairy: 1											
	y, Invitrotech										
Dairy: 2											
Reproduction	problems - 5 ca	ases									
Detained	- Staulai utila								_		
Retained	afterbirth										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.3 (3)			2.0 (2)	1.8 (6)	2.0 (1)		1.8 (5)			
Level of impereported	ortance scale: 1	= one case	, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
•					1.0						
Beef	1.5 (2)			2.0 (2)	1.8 (6)	2.0 (1)					
Dairy								1.8 (5)			
Goat	1.0(1)							, ,	_		
Beef: 1, Goat	a Ifour Diereklin :: 1										
	lelspruit Anim	aı mospital									
Beef: 2											
North West		marake d P'									
	stad, Leeudori	ngstad Die	rekliniek								
Beef: 3	. Vortous	Diamalalia	ale								
	p, Ventersdorp	Dierekiini	EK								
Beef: 1											
Free State											
Bloemfontein, Dr Stephan Wessels											
	ın, Dr Stephan	wessels									
Beef: 2											
Beef: 2 Bultfontein	in, Dr Stephan , Greylingsrust		ekkamer								
Beef: 2 <b>Bultfontein</b> , Beef: 1	, Greylingsrust	t Dierespre	ekkamer								
Beef: 2 <b>Bultfontein</b> , Beef: 1		t Dierespre	ekkamer	'							

	Ladybrand, Ladybrand Dierekliniek  Beef: 1												
Beef: 1													
	on, Viljoenskro	oon Dierekliniek											
Beef: 1													
	inburg Dierek	liniek											
Beef: 3													
Kwazulu-Na													
	ergville Veteri	nary Clinic											
Beef: 2													
Western Ca													
	ledon Dierekli	niek											
Dairy: 2													
	gerberg Diereh	ospitaal Darling											
Dairy: 2	<b>D O U U U</b>	•											
	y, Dr Otto Krie	K											
Dairy: 2													
Swellendam, Swellendam Dierehospitaal													
Dairy: 2													
	Worcester, Durban Straat Dierekliniek Worcester												
Dairy: 1													
Sheath P	Sheath Prolaps												
J. Garan I	Тотаро							_					
PROVINCE	Mpumalanga	Gauteng Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape					
Average	1.0 (1)			2.0 (1)	1.0 (2)								
Level of imported	ortance scale: 1	= one case, 2 = more	e than on	e case b	ut less than t	en and 3 =	more than :	10 cases					
Beef	1.0 (1)			2.0 (1)	1.0 (2)								
Mpumalang	a												
	nal Diereklinie	k											
Beef: 1													
Free State													
Hoopstad, H	loopstad Diere	ekliniek											
Beef: 2													
Kwazulu-Na	atal												
Bergville, Be	ergville Veteri	nary Clinic											
Beef: 1		-											
	Mtubatuba, Mtubatuba Animal Clinic												
Beef: 1													
Uterus pr	Uterus prolaps												
PROVINCE	Mpumalanga	Gauteng Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape					

1.6 (8)

1.0(2)

1.3 (3)

2.0 (1)

1.0 (1)

1.0(2)

Average

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 (1) 1.8 (6)	1.0 (2)	1.0 (1)	2.0 (1)
Dairy				2.0 (1)	
Sheep		1.0 (2)		1.0 (1)	

#### Mpumalanga

## Grootvlei, Grootvlei Dierekliniek

Beef: 1

#### **Nelspruit, Nelspruit Animal Hospital**

Beef: 1
North West

## Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 1 Free State

## **Bultfontein, Greylingsrust Dierespreekkamer**

Beef: 1, Sheep: 1

## Clocolan, Clocolan Dierekliniek

Beef: 2

#### Hertzogville, Hertzogville Dierekliniek

Beef: 2

#### **Hoopstad, Hoopstad Dierekliniek**

Beef: 1

## Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 1

## Vrede, Vrede Dierehospitaal

Beef: 2 Two cases

## Winburg, Winburg Dierekliniek

Beef: 3

## Kwazulu-Natal

## **Bergville, Bergville Veterinary Clinic**

Beef: 1

## **Estcourt, Estcourt Vet Clinic**

Beef: 1

#### **Western Cape**

#### **Caledon, Caledon Dierekliniek**

Beef: 1, Sheep: 1

## Swellendam, Swellendam Dierehospitaal

Dairy: 2

#### **Northern Cape**

## Postmasburg, Postmasburg Dierekliniek

Vaginal (	Cervical) pr	olaps							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (2)	1.3 (3)			2.0 (7)	1.3 (4)	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	1.0 (2)	1.3 (3)	2.0 (6)	)	1.3 (4)		1.0 (1)	
Dairy						1.0(1)	2.0 (1)	
Sheep			2.0 (1)	)				

#### Mpumalanga

#### **Bethal, Bethal Dierekliniek**

Beef: 1

#### Grootvlei, Grootvlei Dierekliniek

Beef: 1

Gauteng

#### **Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 1

## **Bronkhorstspruit, Kerkstraat Dierekliniek**

Beef: 2

#### Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1
Free State

#### Clocolan, Clocolan Dierekliniek

Beef: 2

#### Hertzogville, Hertzogville Dierekliniek

Beef: 1

## Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 2

## **Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

#### Ladybrand, Ladybrand Dierekliniek

Beef: 2

#### Winburg, Winburg Dierekliniek

Beef: 3

#### **Kwazulu-Natal**

## **Bergville, Bergville Veterinary Clinic**

Beef: 2

## Camperdown, Camperdown Vet Clinic

Beef: 1

#### **Dundee, Endumeni Herd health**

Beef: 1

## **Estcourt, Estcourt Vet Clinic**

Beef: 1

#### **Eastern Cape**

## Alexandria, Alexandria Platteland Spreekkamer

Dairy: 1

#### **Western Cape**

#### Swellendam, Swellendam Dierehospitaal

Dairy: 2

## **Worcester, Durban Straat Dierekliniek Worcester**

Beef: 1

## **Climatical Cause**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep						1.0(1)			
Goat						1.0(1)			
Kwazulu-Na	ntal					,	<u> </u>		
Pongola, Po	ngola Animal	Clinic							
Sheep: 1, Go	at: 1								
Drought									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average		2.0 (1)			2.0 (1)		2.6 (10)	3.0 (3)	2.6 (7)
reported Beef		2.0 (1)			2.0 (1)		2.8 (4)	3.0 (1)	2.5 (2)
Dairy							2.5 (2)		
Sheep							2.5 (2)	3.0 (1)	2.7 (3)
Goat							2.5 (2)	3.0 (1)	2.5 (2)
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 2									
Free State									
<b>Hertzogville</b> Beef: 2	e, Hertzogville	Diereklin	iek						
Eastern Cap	<b>.</b>								
	delaide Veterii	nary Clinic							
Beef: 3		<b>-</b>							
	n drought. Accu								poor qualit
	as dropped ove				tain wat	er not availab	le in sourve	eld.	
<b>Alexandria,</b> Dairy: 2	Alexandria Pla	atteland S	ргееккап	ier					
•	, Steynsburg D	)ierehosni	itaal						
	/: 3, Sheep: 3, 0								
	, Stutterheim		y Clinic						
Beef: 3			•						
Serious droug	ght <b>Nitelsbos Vete</b>								

#### **Western Cape**

## **Oudtshoorn, Ostrimed**

Beef: 3

Fibre deficiency, due to drought. Associated problems as animals are kept in kraal.

Sheep: 3, Goat: 3
Northern Cape

## Colesberg, Karoo Veterinary Hospital

Beef: 3

Downer cattle due to drought and deficiency of feed and vitamins

Sheep: 3, Goat: 3

#### De Aar, De Aar Veterinary Clinic

Sheep: 3 Severe

#### Postmasburg, Postmasburg Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Heat stre	SS								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.7 (7)	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	1.5 (4)	2.0 (1)	
Dairy	2.0 (1)		3.0 (1)
Sheep	2.0 (2)		

#### **Free State**

## Hoopstad, Hoopstad Dierekliniek

Beef: 1, Sheep: 3

## Kroonstad, Kroonstad Dierehospitaal

Dairy: 2

## Vrede, Vrede Dierehospitaal

Beef: 2 Three cases

#### Wesselsbron, Wesselsbron Dierekliniek

Beef: 1 Calves in pens

Lambs in birth pens under corrugated roof.

#### Winburg, Winburg Dierekliniek

Beef: 2

Sheep: 1

## Kwazulu-Natal

## Vryheid, Vryheid Privaat Veeartse

Beef: 2

#### **Western Cape**

## Malmesbury, Dr Otto Kriek

Dairy: 3

Sadly, so many dairy cows especially "close-up" cows are left in the open with no shade at this time of the year. Apart from being guilty of cruelty to animals, huge losses due to lower production etc. as a result of this malpractice is the end result.

is the end re	sult.								
Lightning	9								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (5)				2.0 (7)	2.0 (2)	1.0 (1)		
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	e than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.4 (5)				2.0 (7)	2.0 (2)	1.0 (1)		
Mpumalang	ja								
	hal Diereklinie	k							
Beef: 3									
	regloed Veteri	nêre Spre	ekkamer						
Beef: 3									
	Pets Vet Hosp	ital							
Beef: 2	Economic								
Standerton Beef: 2	, Econovet								
	Cape Cross Vol	kernet Dia	rohoenita	al .					
Beef: 2	cape cross voi	KSI USL DIC	enospita	ıaı					
Free State									
	p, Platkop Diei	rekliniek							
Beef: 2	p, 1p = 10.								
	e, Hertzogville	Diereklin	iek						
Beef: 1									
Ladybrand,	Ladybrand Di	erekliniek							
Beef: 2									
Memel, Mei	mel Veterinary	Clinic							
Beef: 2									
	land Dierehos	pitaal							
Beef: 2									
	le Dierehospit	aal							
Beef: 3									
10 Farms	<i></i>								
	inburg Dierek	liniek							
Beef: 2 Kwazulu-Na	atal								
	atai dumeni Herd l	hoolth							
Beef: 2	iduillelli neld i	lealui							
	Ncanduvet Ne	wcastle							
Beef: 2	itcandavet ite								
Eastern Cap	pe								
	n, Queenstow	n Veterina	rv clinic						
Beef: 1	, 4		. ,						
1									

# Non specific diseases

Preditors									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)				2.3 (4)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)				2.0 (2)				
Sheep	2.0 (1)				2.5 (2)				
Mpumalang Lydenburg, Beef: 2, Shee	<b>Longtom Dier</b>	ekliniek							
Sheep: 2 <b>Villiers, Wil</b> e Beef: 2, Shee	Rowelsfonteir gepoort Dierel pp: 3 (inburg Dierek	kliniek Ve							
Sabotatio	on - Theft								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (2)		3.0 (1)	2.8 (5)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		3.0 (1)		3.0 (1)	2.7 (3)				
Sheep		3.0 (1)			3.0 (2)				
Beef: 3	spruit, Kerkstr								
Sheep: 3 Poaching, sna	rg, Magaliesbuares and theft ve		an Jeffrey						
<b>North West Leeudoring:</b> Beef: 3	stad, Leeudori	ngstad Di	erekliniek						
27 Cattle slau <b>Free State</b>	ightered								

## Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 3

Trauma								<u>^</u>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)	2.0 (4)	1.5 (2)			1.0(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)	2.3 (3)	2.0 (1)			1.0(1)		1.0(1)		
Dairy			1.0(1)					3.0 (1)		
Sheep	1.0(1)									
Goat		1.0(1)								

## Mpumalanga

## **Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 1 Abdominal muscle hernia

Gauteng

## **Bronkhorstspruit, Kerkstraat Dierekliniek**

Beef: 2

## Hammanskraal, Themba Animal Clinic

Beef: 2

## Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3 Fractures Goat: 1 Fracture

Limpopo

## Mokopane, Dr Henk Visser

Beef: 2, Dairy: 1 **Kwazulu-Natal** 

## Camperdown, Camperdown Vet Clinic

Beef: 1 hernia

## **Western Cape**

## Malmesbury, Invitrotech

Dairy: 3

## Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

High voltage cable snapped and landed on 2 months old calf -euthanasia.