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

April 2019

(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 (119) submitted reports during April 2019:

Mpumalanga (12)

Bethal – Dr. Hardus Pieters

Ermelo - Dr. Ben Potgieter

Grootvlei - Dr. Neels van Wyk

Hendrina - Dr. Anja Steinberg

Karino – Dr. Silke Pfitzer

Lydenburg – Dr. Marietjie Malan

Malalane - Drs. Van Sittert and Van Sittert

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 (8)

Bapsfontein – Drs. Engelbrecht 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

University of Pretoria – Dr. Emily Mitchell

Vanderbijlpark – Dr. Kobus Kok

Limpopo (9)

Beestekraal - Dr. Alwyn Venter

Bela-Bela (Warmbaths) - Dr. Nele Sabbe

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

Modimolle (Nylstroom) - Drs. Huber, Bredell and Barnard

Mokopane (Potgietersrust)- Dr. Henk Visser

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

Tzaneen – ZZ2 Farm practice – Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

Vaalwater – Dr. Annemieke Müller

North West (11)

Brits - Dr. Boshoff and Coertze

Christiana - Dr. Pieter Nel

Klerksdorp/Coligny/Fochville/Hartebeesfontein/Ottosdal/Potcheftroom - Drs. Van den Berg,

Van den Berg, Van der Walt and Geral

Klerksdorp/Schweizer-Reneke – Drs. Coetzee and Venter

Leeudoringstad - Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie-Krüger-Rall

Potchefstroom – dr. Marten Ferreira

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 (21)

Bloemfontein – Dr. Stephan Wessels

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand - Dr. Dedré Nel

Ficksburg – Drs. Kotzé

Harrismith – Drs. Slabber and Reynolds

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 Vermeulen

Reitz - Dr. Murray Smith

Senekal - Dr. Jan Blignaut

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers – Dr. D'Wall Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Vrede - Dr. Rudolph Fourie

Wesselsbron - Dr. Johan Jacobs

Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (13)

Bergville- Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee - Drs. Marais and Fynn

Eshowe, Mtunzini, Mandeni - Dr. Craig Pryke

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

Mooi River – Drs. Still, Edmunds and Fowler

Mtubatuba – Dr. Trevor Viljoen

Newcastle – Dr. Barry Rafferty

Newcastle – State Veterinary Office

Pietermaritzburg – Drs. Kretzmann, Watkins and De Freitas

Pongola – Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Eastern Cape (13)

Alexandria - Dr. Johan Olivier

Alexandria – Dr. Charlene Boy

Aliwal North - Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet - Drs. Hobson, Strydom and Hennesy

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

Jeffreys Bay – Drs. Lategan, Hoek and McFarlane

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

Somerset East – Drs. Farell, Farrel, Louw and Ross

Stutterheim - Dr. Dave Waterman

Uitenhage – Drs. Mulder and Krüger

Witelsbos – Dr. Elmien Kotze

Western Cape (19)

Beaufort West - Dr. Jaco Pienaar

Beaufort West - Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

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

Darling – Drs. Van der Merwe, Adam and Senekal

George - Drs. Strydom, Truter and Pettifer

Heidelberg – Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Dr. Andries Lesch

Malmesbury - Dr. Markus Fourie

Malmesbury – Drs. Heyns and Zolner

Oudtshoorn - Dr. Adriaan Olivier

Oudtshoorn - Dr. Glen Carlisle

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

Vredenburg – Dr. Izak Rust

Northern Cape (6)

Calvinia – Dr. Bertus Nel

De Aar – Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley – Drs. Van Heerden and Swart

Postmasburg – Dr. Boeta van der Merwe

Upington - Drs. Vorster, Fourie and Visser

Feedlots (2)

Dr. Andy Hentzen

Drs. Morris and Du Preez

Laboratory reports (5)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Sophette Gers – Pathcare, Cape Town

Dr. Mark Chimes - Dairy Standards, George

Summary

The most important news regarding the foot and mouth disease spill over in the Vembe district of the Limpopo province is the following:





Media statement 28 May 2019

JOINT STATEMENT OF THE DEPARTMENT OF AGRICULTURE, FORESTRY AND FISHERIES AND THE LIVESTOCK INDUSTRY

THE BATTLE IS OVER, BUT THE WAR CONTINUES

South Africa experienced a FMD outbreak in the high surveillance area of the FMD free zone in Limpopo on 7 January 2019 and, as a result, lost its World Organization for Animal Health (OIE) recognised FMD free zone without vaccination status.

End of outbreak

The Department of Agriculture, Forestry and Fisheries (DAFF) has declared the end of the outbreak, as there has not been any new cases of FMD detected in the declared disease management area since February, and more than three incubation periods has lapsed with no new cases being observed. Intensive surveillance has demonstrated that the virus is no longer circulating. However, control measures remain in place in the area. The farming community and public are urged to remain vigilant.

Ministerial affirmation visit to Vhembe district

During April, the Minister of Agriculture, Forestry and Fisheries, Mr Senzeni Zokwana let a high profile delegation to the affected communities in Limpopo to express their heartfelt appreciation to the farmers and all other parties that worked with the DAFF to contain the outbreak and resolve the situation.

Containment zone application

The DAFF successfully prepared and submitted a dossier to the OIE applying for a Containment Zone. This application does not form part of the normal OIE processes for zoning and thus will not be considered by a formal sitting of the OIE Scientific Commission but will rather be considered through and electronic round robin process. The DAFF is hopeful for a positive outcome of its application in the near future.

China lifts ban on wool

The Department has successfully negotiated market access for safe commodities to most of the trading countries. The most recent success was China lifting their ban on wool imports from South Africa. Negotiations are still under way for beef exports to China, and the DAFF is in the process of confirming dates for the next inspection visit by the Chinese veterinary authority.

We should not rest but remain vigilant and continuously seek to improve biosecurity procedures and measures to protect our animals and our people against the spreading of disease.

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Issued by the Department of Agriculture, Forestry and Fisheries

An outbreak of Anthrax in Lesotho has been reported.

Please read and distribute the pamphlet on Anthrax which is available on the DAFF

website:

https://www.nda.agric.za/vetweb/Pamphlets&Information/Rabies/anthrax.pdf

Antibiotic resistance

A danger facing us all in the world is antibiotic resistance.

A world-first study has uncovered a "mammoth" problem lurking in our rivers that could be

contributing to a rising rate of antibiotic resistance, which leading agencies warn will results in

millions of human deaths annually.

https://thenewdaily.com.au/life/science/2019/05/28/rivers-antibiotics-resistance-problem/

African Swine Fever

Please take note of the serious outbreak of swine fever

http://www.fao.org/ag/againfo/programmes/en/empres/ASF/Situation update.html

Important lessons can be learnt about the control of the disease

FAO's recommendations

Countries of the region

Animal disease containment in its broadest sense should be prioritized within the highest levels of governments.

Preparedness (e.g. contingency planning, standard operating procedures— SOPs, secured financial support) for improved early warning, detection and notification, early reaction, and coordination needs to be in place and reviewed periodically in relation to changing disease situation.

Application of strict biosecurity measures specific to the different swine producing sectors including frequent cleaning and disinfection of farms, transport vehicles, and improved husbandry practices and production systems.

Strengthening surveillance and monitoring of transport of live pigs as well as pork products.

Good communication and coordination with swine producing commercial sector and swine famers are essential to strengthen cooperation in ASF prevention, detection, and control. Awareness and training of all stakeholders, from veterinarians to farmers, intermediaries and other value chain actors is needed. Communication to public is to be in place to avoid the rumours leading to food safety perceptions and consumption disruption.

Farm registries, animal identification and censuses are essential to enable animal health interventions. Prohibition of swill feeding where feasible; highly regulated where not.

Strengthening proper disposal of food waste (food services, airports, seaports), which may contain uncooked pork products.

Outbreak control strategies must be in place. The strategies need to be developed in consultation with the private sector (pig producers and allied industries, such as transport, feed operators) for improved disease management options and compliance.

National Considerations, Inter-Regional Collaboration and Solidarity

Strengthening intraregional networks on disease management and diagnostic protocols. Understanding pig and pork value chains within the country and with neighbouring countries is essential for improved risk management.

A summary of the most important diseases and conditions that were reported during the month of April was:

Internal parasites:

Late summer rains were recorded in many parts of South Africa. Moisture and temperature above 15 degree Celsius play a major role in the hatching of roundworm eggs and the development into the third

infective stage larvae on the grazing. Reports of parasitism were received from all provinces and especially small stock farmers should be aware of clinical signs such as anaemia, bottle jaw in the case of wireworm. Be aware that animals developing diarrhoea and losing weight may be due to bankrupt or nodular worm infestations. Resistance to anthelmintics is rife and farmers should visit their veterinarian to establish which active(s) are still controlling the internal parasites present on the farm.

Beware of liver fluke and conical fluke infestations when moving animals into viei camps as the intermediate hosts of these devastating infestations are water snails.

Protozoal parasites, *Coccidia* and *Cryptosporidium* were also reported from most provinces. These parasites damage the lining of the intestine and pathogenic *E. coli* enter the body leading to huge mortalities. Halofuginone, the drug for the control of cryptosporidiosis is out of stock due to this disease being a world wide problem. Hopefully the drug will be available in the third quarter.

Contact your veterinarian immediately if you suspect cryptosporidiosis occurring in your calves or lambs.

External parasites

Due to warm weather a high prevalence rate in tick, fly, mosquito and midge numbers were reported from many areas. As these parasites transmit numerous diseases farmers should be proactive in controlling parasite damage and diseases in their areas.

Tick transmitted diseases

The following tick transmitted diseases were reported from most provinces: African red water, Asiatic red water, anaplasmosis, heartwater and lumpy skin disease. Tick toxicosis (sweating sickness) caused by the bont-legged tick was reported from four provinces. Consult your veterinarian on control programmes.

Insect transmittable diseases

High prevalence of lumpy skin disease, ephemeral fever, blue tongue and African horse sickness were recorded. Viruses can not be treated by antibiotics and symptomatic treatment is given to animals. Update your vaccination programme with your veterinarian. In 2018 a Rift Valley fever outbreak was reported in May from Jacobsdal and fortunately up to now no cases occurred in 2019.

Venerial diseases

Trichomonosis, vibriosis Bulls) and pizzile (rams) diseases cause huge economic losses to farmers. For your own sake control these diseases by having your bulls and rams tested for these diseases. An outbreak of trichomonosis was reported where a positive trichomonosis bull from a bordering farm jumped a fence and had been in the cow herd for 3 hours. Calving percentage dropped dramatically!

Bacterial diseases

Most bacterial diseases can be controlled by preventative vaccination! The following diseases were reported: blackquarter, botulism, pulpy kidney, lamb dysentry, swelled head, red gut, blood gut, tetanus (all clostridial diseases); salmonellosis, bovine brucellosis, ovine brucellosis, Johne's disease, Fusibacterium necrophorum, septicaemia, E. coli, enzootic abortion, lumpy wool, Senkobo disease and pasteurellosis. Worrying is that the bacteriae Klebsiella and Coxiella were also isolated.

Viral diseases

Snotsiekte outbreaks occurred in 7 provinces. There is no vaccine at present for this deadly disease. Address the problem with your neighbours where the wildebeest associated strain of the virus is the problem. Wildebeest shed the virus when they are under stress.

Other viral diseases that were reported included BVD and EBL (immune suppression), IBR, BRSV, PI 3, EBL, Jaagsiekte, Orf and Warts. Ringworm was reprted from 6 provinces.

Toxicities that were reported are: cardiac glycoside, gousiekte, ink berry, tulip, *Cynanchum*, facial eczema, *Lantana*, prussic acid, geeldikkop, vermeersiekte, krimpsiekte, Kikuyu, photosensitivity, mycotoxicosis, lupins, water contamination, nitrate, urea, snake bite, blue green algae and copper.

Nutritional deficiencies

Late rains fell in many areas but other parts of the country are still struggling with severe drought conditions. Sufficient roughage is a severe constraint.

Micro-nutritional and vtamin deficiencies were reported. Selenium deficiency was reported from6 provinces.

Multifactorial conditions

A few conditions that were reported should be high lighted: abortions, stillbirths, abscesses, urolithiasis, blindness, bloat, blue udder, diarrhoea, epididymitis, eye infections, joint ill, lameness, pneumonia, mastitis, navel ill, trauma and downers.

Metabolic diseases

Animals having access to grains without adapting them first suffered from acidosis. Ketosis, domsiekte, milk fever and displacement of the abomasum were reported.

Reproductive diseases

The following were reported: dystocia, metritis, poor conception, retained afterbirth, sheath prolapse, uterine and vaginal prolapse

Environmental conditions: Cold, lightning and drought are major issues.

For detailed reports visit www.ruvasa.co.za and click on disease reporting

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!

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

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

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

It is available in English and Afrikaans.

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 Brusellose 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.	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.									
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						
NO	DTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers								
	atement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to o		ected						
	cks by law.	2101 1111	ocau a						
	•								
Bu	yers should consult their veterinary advisor before any purchases.								
_		_							
Sig	gnature Date								
_	Farm:	_							
NΑ	ME								
	District:	_							
	WNER OR AUTHORIZED	_							
-	PRESENTATIVE								













SOP for the control of Bovine Brucellosis

Audit date:		 	
Authorised pe	erson:		

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

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

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

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

Click on **Info centre** for more information on the "war" we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease. http://nahf.co.za/category/diseases/brucellosis/

Information on other controlled diseases (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 April 2019

119 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 12; Gauteng (G) 8; Limpopo (L) 9; Northwest (NW) 11; Free State (FS) 21; KwaZulu-Natal (KZN) 13; Eastern Cape (EC) 13; Western Cape (WC) 19: Northern Cape (NC) 6; Feedlots (FL) 2 and Laboratories (Lab) 5).

Key message

Farm gates, Fences and Forsight, the 3 F's!

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

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

Insist on VENDOR'S DECLARATIONS when buying animals.

Quarantine

Immunization programmes

Speak to your veterinarian

Abide the law-vaccinate cattle against anthrax (outbreak in Lesotho) and heifers against brucellosis!

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

Internal parasites

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

Internal parasites	MP	G	L	NW	FS	KZN	EC	wc	NC
Roundworms	х		х	х	х	х	х	х	
Resistant roundworms	Х	х		х	х		х	х	
Wireworm	х	х	х	х	х	х	х	х	х
Brown stomach-worm							х	х	
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm							х		
Lungworm									
Eyeworm			x			х			
Parafilaria						х			

Tapeworms	х		х	х	х	х	х	х	х
Liver fluke	х	х				х			
Conical fluke	х				х	х			
Cysticercosis (measles)		х							х
Schistosomiasis (bilharzia)									
Coccidiosis	х	х	х	х	х		х	х	
Cryptosporidiosis	х	х			Х	х		Х	

Internal parasite outbreaks have been reported from all provinces. Use the five point check to keep on top of what is happening in the flock. For further detail contact your local veterinarian. Treatment is but one of many actions in the holistic management approach to control internal parasites.

From previous year's reports can be forcasted that wireworm will be a huge problem until the first frost is recorded. Be prepared!!



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

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

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0l10.2885.9850..16402...0.0.0.708.5719.2-4j4j3j2j1.....0...1..gws-wiz-img....0.066yefU7Ric

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	х				х	х	х		
Heartwater ticks	х	х	х	х		х			
Brown ear-ticks	х			х		х			
Bont-legged ticks	х			х	Х		х		х
Red-legged ticks				х	Х	х			
Paralysis ticks					Х		х	х	
Tampans									
Biting lice					Х				
Sucking lice								х	х
Itch mites							х		
Sheep scab							х		
Mange mites	х				Х	х	х	х	
Nuisance flies	х			х	Х	х	х	х	
Midges		х		х		х	х		

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

Increase in 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. Below is a list of diseases transmitted by ticks.

There is an increase in midge and mosquito numbers. Beware of Rift Valley fever outbreaks. Do not do necropsies and handle abortions and afterbirths without protective clothing! Report abortions asap to your veterinarian!

Tick borne diseases

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

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

Theileriosis										Ì
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Asiatic red water (7 provinces) 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 8 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			Х
Ephemeral fever (Three-day-stiff sickness)	х	х	х	х	х	х			
Blue tongue	х	х		х	х	х	х	х	
Rift Valley Fever									
Wesselsbron									
Nagana						х			

As soon as insect populations increase with wet weather conditions, non-vaccinated 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 late this year. When travelling through many parts of the country it was noticed on the wind screen that there is an increase in insect numbers!

In many areas there are standing water which is ideal breeding sites for insects!

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. Do not give the live vaccine when an outbreak occurs! The last outbreak of RVF occurred in May 2018! Still a month to go. Lots of rain fell recently! Holding thumbs!

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			
Vibriosis	х			х	х	х	х	х	
Pizzle disease							х		х
Actinobacillus seminis plus HPA	х								

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 5 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	х	х	
Botulism			х	х		х		х	х
Pulpy kidney		х		х	х		х	х	
Lamb dysentery								х	
Swelled head	х	х				х		х	х
Red gut (cattle)		х			Х	х	х	х	
Blood gut (sheep)					х			х	х
Tetanus					х		х	х	
Salmonellosis									
Klebsiella	х		х	х	х				
Bovine brucellosis	х		х	х	х				
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)					х			х	
Bovine tuberculosis									
Johne's					Х			х	
Leptospirosis									

Listeriosis								
Pseudomonas				х				
Pasteurella multocida				х				х
Fusibacterium necrophorum	х			х			х	
Septicaemia					х			х
E. coli	х	х	Х	х	х	х	х	х
Klebsiella			Х					
Coxiella				х				
Enzootic abortion		х		х	х			
Lumpy wool			х					
Bovine dermatophilosis (Senkobo disease)								
Uterine gangrene				х				
Wooden tongue								
Lumpy jaw								

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.

Be sure to vaccinate animals against botulism especially if chicken litter is going to be fed to animals during the winter season.

Challenging farmer's unions and study groups to eradicate brucellosis in their area!! Many success stories are already received!

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

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	х		х	х	х
Rabies (cattle)									
BVD			х			х		х	
IBR			х	х	х	х		х	
BRSV						х		х	
PI3						х			
Maedi visna virus									
Rotavirus / Coronavirus	х						х		
Enzootic bovine leucosis (EBL)					х	х	х	х	
Sheep leucosis									
Jaagsiekte					х				
Orf	х	х		х	х	х	х	х	х
Warts			х		х	х	х	х	
Herpes mammillitis									

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. Reports received from 7 provinces!

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		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	
Slangkop									
Crotalaria									
Gifblaar									
Gousiekte			х						
Cestrum (ink berry)					х		х		

Tulip			х	х		х		
Cynanchum (bobbejaantou)						х		
Facial eczema				х		х	х	
Lantana					х			
Prussic acid						х	х	
Acacia nilotica								
Senecio								
Cotula nigellifolia (stagger wood)								
Geeldikkop (duwweltjies) and dikoor	х	х		х				
Vermeersiekte				х				
Hertia pallens (Nenta, krimpsiekte)							х	
Chrysocoma ciliata (bitterbos)								
Solanum incanum (maldronksiekte)								
Gomphocarpus (Asclepias) fruticosus (milkweed)								
Heliotropium (potato weed)								
Bracken fern								
January bush (Gnidia polycephalatus)								
Chinkerinchee								
Ceylons rose								
Sarcostemme viminale (melktou, caustic								
bush)								
Eucalyptus (bloekom) bark								
Kikuyu	Х					х		
Ryegrass								

Ganskweek			I	I		I
Ganskweek						
Paspalum staggers						
Phalaris aquaticum (Phalaris staggers)						
Photosensitivity (Turknael, Erodium					х	
moschatum)						
Photosensitivity (Stellenbosch)						
Lusern						
Mycotoxicosis					х	
Apergillus						
Aflatoxin						
Diplodiosis						
Lupins					х	
Harpuisbos						
Syringa berries						
Acorn						
Cycad						
Kraalbos, Geelbos (Galenia africana)						
Radish						
Carrot poisoning						
Onion poisoning						
Bracken fern						
Pollen beetle (Astylus atromaculatus)						
Water contamination			х			
Nitrate		Х				
Tannins						
<u> </u>	 	•	•	•		•

Urea	х			х	х		
Salt							
Wet carcase syndrome							х
Snake bite	х		х	х			
Moth cocoons (impaction)							
Blue green algae						х	
Copper						х	х
Selenium							
Zinc							
Fluoride							
Lead							
Paraquat							
Phosamine							
Aldicarb							
Organophosphate							
Zinc phosphide							
Pyrethroid							
Amitraz							
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 are 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	
Phosphate			х	х			х		х
Calcium					х			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 still present in many areas!

Winter is just round the corner, enough roughage?????

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.

Prof. HO de Waal Pr. Sci. Nat., Anim. Sci. [401721/83] Department of Animal, Wildlife and Grassland Sciences (70) University of the Free State PO Box 339 Bloemfontein South Africa

Vir die Afrikaanse weergawe:

https://www.netwerk24.com/landbou/kundiges/vraag/Droogtewenke-Rek-so-jou-weiding-20190206

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)

www.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						х			
Copper						х		х	

Zinc						х			
Selenium	х		х		х	х		х	х
Magnesium		х					х		
Manganese								х	
Vitamin A				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	х	х	х	
Stillbirths	х				х	х		х	
Abscesses	х	х	х	х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis	х	х			х		х		
Blindness	х				х	х		х	х
Bloat		х		х	х	х	х	х	
Blue udder	х				х	х		х	
Diarrhoea	х	х		х	х	х	х	х	

Epididymitis					х		х		
Eye cancer					х	х	х	х	
Eye infections	х	х		х	х	х	х	х	
Joint ill		х		х	х	х	х	х	
Cystitis									
Lameness/foot problems	х	х	х	х	х	х	х	х	
Lung infection	х	х	х	х	х	х	х	х	х
Mastitis	х		х	х	х	х	х	х	
Navel ill	х				х	х		х	
Umbilical hernia									
Red gut (sheep, torsion of gut)								х	х
Rectal prolaps									
Rumen stasis									
Swelsiekte									
Traumatic reticulo-pericarditis				х				х	
Trauma	х							х	
Teeth wear									
Plastic bags (ingestion)									
Downer	х	х	х	х	х	х	х	х	х
Anaphylactic shock									
Vestibular syndrome (middle ear infection)						х			
Hernia									
Deformaties					х				

 $\ \, \text{Discuss the origin, treatment and prevention of these diseases with your veterinarian.} \\$

The cause of abortions should be established: brucellosis, enzootic abortion, Q-fever, leptospirosis, Rift valley fever, 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	х	
Displaced abomasum						х	х	х	
Ketosis (Domsiekte)		х			х		х	х	
Milk fever	х	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	х
Endometritis					х			х	
Hydrops									
Metritis	х			х	х	х	х	х	
Poor conception	х		х	х	х	х	х	х	
Retained afterbirth	х				х	х	х	х	
Sheath prolaps					х	х			
Uterine prolaps	х		х		х	х	х	х	
Vaginal prolaps	х	х	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	х		х	
Frozen to death					х				
Heat stress									
Lightning				х	х	х	х		
Electrocution									
Drought							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)	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

Cape Town – Dr. Sophette Gers Karino – Dr. Silke Pfitzer Nigel – Cindy van der Westhuizen Beestekraal – Dr. Alwyn Venter Vanderbijlpark – Dr. Kobus Kok Vaalwater – Dr. Annemieke Müller

Ostriches

Western Cape

Oudtshoorn

Red gut	Intermittant hot weather stimulates high food intake – overgrowth of clostridia.
Sinusitis, rhinitis	Seasonal change, dust, deficiencies? Survival of infectious material – slight increase in clinical signs
Vitamin E and selenium deficiency	Interesting this time of the year, usually during peak time of antioxidant requirement – summer
Protein and energy deficiency	Multifactorial as above, climatic behavioural (less feeidng time), energy high demand, breakdown of proteins
Climate – cold and wet	Leads to increase requirement of nutrients – energy, poor intake as a result of weather, inadequate metabolization gives ascites/weakness

Equines

Limpopo

Bela-Bela

Poor condition – 1 Nyala, little energy, treated, improved Swollen joints – 4 month old black wildebeest, wound on brisket, died

Makhado

African Horse sickness - 1

Vaalwater

African horse sickness – 1, surviveddeath

North West

Koster/Ventersdorp

E. coli – 3

Schweizer- Reneke

Red-legged tick - 3

Potchefstroom

African Horse Sickness -1

Northern Cape

Kathu

Colic - 1

Game

Mpumalanga

Malalane

Tick damage – *Amblyomma hebraeum* (bont ticks), Sable calf, tail damage

Lydenburg

Wireworm -2

Eye problems - 2

North West

Klerksdorp

Intestinal roundworms – 2

Coccidiosis – 2

Eastern Cape

Somerset East

Tulip toxicity - Springbuck

Swine

Gauteng PretoriaLameness – 1

Urolithiasis - 1

Monthly report on Livestock and Wildlife isolations for April 2019 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

Respiratory tract disease in cattle yielded *Pasteurella multocida* [14], *Mannheimia haemolytica* [12], *Trueperella pyogenes* [6], *Histophilus somni* [4], *Mycoplasma* [2] and *Mannheimia* species [2]. *Mannheimia haemolytica* was also responsible for pneumonia in goats and sheep, and Blue Udder in sheep. *Trueperella pyogenes* was also isolated from bovine mastitis, severe ocular abscessation in cattle, abscesses in sheep and lung abscesses in goats.

Bovine mastitis yielded *E. coli* [1], *Staphylococcus aureus*, *Staphylococcus pseudintermedius* and *Corynebacterium amycolatum*.

Calf enteritis was caused by *E. coli* [11], many of which were positive for *Cryptosporidium* in addition, and many of the *E. coli* were also ESBL [extended spectrum beta lactamase] positive, and were usually MDR strains as well. Multiple Drug Resistant strains are resistant to 3 or more groups of the antibiotics suitable for treating the particular condition.

Paratyphoid in calves was caused by *Salmonella* Dublin [2] and *Salmonella* Typhimurium. All three cases presented as a primary pneumonia, and not as enteritis.

Other conditions in cattle were gangrenous myositis, due to *Clostridium chauvoei* [2], Clostridium sordellii and *Clostridium novyi*.

Lamb and kid enteritis was also associated with *E. coli* [23], and was also in many cases, found together with *Cryptosporidium*. Many of the *E. coli* isolates were also ESBL positive.

Other abscesses in sheep and goats were due to *Corynebacterium pseudotuberculosis*, *S. pseudintermedius* and *S. aureus*.

There were 3 cases of porcine enteritis due to *E. coli*.

Grangrenous myositis was also found in wildlife; C. novyi in a rhino, and C. sordellii in a duiker.

Feedlot report received from Drs. Shaun Morris and Eben du Preez for March 2019 (edupreez1@telkomsa.net)

Condition	Comments and Specie
Intestinal round worms	03
Tapeworms	03
Liver fluke worms	B 3, O 2
Conical fluke	03
Parafilaria	В 3
Cysticercosis	В 3
Blue ticks	В 3
Bont ticks	В 3
Brown ear ticks	В 3
Bont – legged ticks	В 3
Red-legged ticks	B,O 3
Nuisance flies	B,O 3
Blowflies	0 2
Screw-worm	B 1
Midges	В 3
Asiatic red water	В 3
Anaplasmosis	В 3
Heartwater	В 3
Lumpy skin disease	В 3
Three Day Stiff Sickness	В 3
Blue tongue	03
Blackleg	В 3
Swelled head	B 3

Blood gut Botulism Salmonellosis Pulpy kidney E. coli Ringworm Coccidiocis Chlamydiosis Rabies EBL BR	O 3 B 3 B 1 O 3 B,O 3
Salmonellosis Pulpy kidney E. coli Ringworm Coccidiocis Chlamydiosis Rabies EBL	B 1 O 3
Pulpy kidney E. coli Ringworm Coccidiocis Chlamydiosis Rabies EBL	O 3
E. coli Ringworm Coccidiocis Chlamydiosis Rabies EBL	
Ringworm Coccidiocis Chlamydiosis Rabies EBL	B .O 3
Coccidiocis Chlamydiosis Rabies EBL	- ,
Chlamydiosis Rabies EBL	В 3
Rabies	В, О 3
EBL	03
	B 1
BR	B 1
	В 3
Warts	В 3
Cryptosporidiosis	B,O 3
Energy excess	3 3, 0 2
Phosphate deficiency	В 3
Vitamin A deficiency	В ,О 3
Abortion	В, О 3
Metritis	B 1
Navell ill	B,O 3
Blue udder	03
loint ill	
ameness	B,O 3
Lungs	

Diarrhoea	B,O 3
Eyes	B,O 3
Abscesses	B,O 3
Trauma	B,O 3
Deaths reported by farmers:	
Blue tongue, Three day stiff sickness,	
red water, anaplasmosis, blackleg,	
pneumonia, pulpy kidney,	
Chlamydophyla abortions	

Feedlot report received from Dr. Andy Hentzen for April 2019 (andyvet@mweb.co.za)

Condition	Comments and Specie
Liver fluke worms	В 3
Conical fluke	B 1
Parafilaria	B 2
Cysticercosis	B 3
Blue ticks	В 3
Brown ear ticks	B 3
Heartwater tick	B 1
Bont–legged ticks	B 3
Red-legged ticks	B 2
Nuisance flies	В 3
Blowflies	B 1
Midges	B 3
African red water	B 2

Asiatic red water	B 2
Anaplasmosis	B 2
Three Day Stiff Sickness	B 2
Blackleg	B 2
E. coli	B 1
Red gut	B 3
BVD	B 3
IBR	B 3
Warts	B 3
Water contamination	B 3
Micro mineral deficiency	В3
Lameness	B 3
Lungs	B 3
Diarrhoea	B 3
Eyes	B 3
Abscesses	B,C 3

Monthly report for April 2019 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 Calves	Pasteurella multocida	1	Piet Retief, Mpumalanga
Bovine calf	Septicaemic salmonellosis	Septicaemic salmonellosis 1 Swellendam, Wester	
Bovine Calf	Cryptosporidia	1 Humansdorp, E.Cape	
Bovine Calf	Cryptosporidia	1	Humansdorp, E.Cape
Bovine Bull	Heart pluck Clostridia	1 Howick, KZN	
Bovine Various	Kikuyu poisoning	1	Piet Retief, Mpumulanga
Bovine Cow	Cardiotoxicity (cardiac glycoside)	1	Potchefstroom, North West
Bovine Cow	Nephrotoxicity (oak poisining)	1 Potchefstroom, North We	

WILDLIFE DISEASE SURVEILANCE							
WILDLIFE SPECIES DISEASE AGENT CASES LOCA							
Avian Flamingo	Aspergillosis	1	Durban, KZN				
African Rock Python	Ascarid gastritis + lungworm	1	Durban, KZN				
Bullfrog	Trematode necrotic enteritis	1	Durban, KZN				
White Rhino	Hypoxic hepatic necrosis	1	Western Cape				
Impala, Ewe	Rumen acidosis and Pneumostrongylus	1	Piet Retief, Mpumulanga				

Monthly report on Livestock and Wildlife isolations for April 2019 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Condition	Comments and Specie
Heartwater tick	E 1
Red-legged tick	E 1
Theileriosis	G 1
Blue tongue	01
E. coli	B 1
Johne's	01
Diarrhoea (bacterial enteritis)	B, O 1
Septicaemia	01

Coccidiosis	01
BMC (Snotsiekte)	B 1
Jaagsiekte	01
Abortion	B,O 1
Lungs	01



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

26th April 2019 DAFF Import/Export Policy Unit Subdirectorate

Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 29th March and 26th April 2019

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

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

PMDate	Species	Final	Histo No
27-Mar-19	Lion	Ovarian atrophy (deslorelin)	S1041-19
27-Mar-19	Cheetah	Grade 3 gastritis	S1042-19
01-Apr-19	Lion	Colonic impaction, caecal rupture	S1090-19
01-Apr-19	Cheetah	Complications of gastritis	S1096-19
03-Apr-19	Cheetah	Amyloidosis, chronic renal disease, gastritis	S1126-19

Kind regards,

Thirly Mitchell

Prof. Emily Mitchell

Month:	Apr 2019 🔻
Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Nodular worm, Eye worm (<i>Thelazia rhodesii</i>), Tape Worms, <i>Parafilaria</i> , Liver fluke, Conical Flukes, Cysticercosis
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Nuisance Flies, Blowflies, Screwworm, Nasal bot larvae, Midges, Mosquitoes, Other, 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	Actinobacillus seminis, Trichomonosis, Vibriosis, Pizzle disease
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Redgut (cattle), Blood gut (Sheep), Tetanus, Brucella abortus, Brucella ovis, Johne`s disease, Pseudomonas, Septicaemia, E.coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Intrauterine Gangrene, Fusibacterium necrophorum, Other
Protozoal diseases (other)	Coccidiosis, Cryptosporidium
Fungal diseases	Ringworm
<u>Viral Diseases (other)</u>	BMC, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), BRSV (Bovine respiratory syncytial virus), PI3, Enzootic Bovine Leucosis (EBL), Jaagsiekte, Orf, Warts, Rota virus
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <i>Cestrum</i> , <i>Cynanchum</i> poisoning, <u>Facial</u> eczema, <u>Geeldikkop/Dikoor</u> , <u>Gousiekte</u> , <u>Kikuyu poisoning</u> , <u>Lantana</u> , <u>Lupine Poisoning</u> , <u>Nenta poisoning</u> (<u>Krimpsiekte</u>), <u>Nitrate poisoning</u> , <u>Prussic acid poisoning</u> , <u>Tulip Poisoning</u> , <u>Vermeersiekte</u> (<u><i>Gaigeria</i> spp.</u>), <u>Mycotoxicosis</u> , <u>Other</u>
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Blue-green algae, Copper Poisoning, Chemical products
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency

Micro Nutri	itional Problen	<u>ns</u>	Copper deficiency, Zinc deficiency, Selenium deficiency, Magnesium deficiency, Manganese deficiency, Iodine deficiency, Vitamin A deficiency, Vitamin B deficiency						
<u>Multi-facto</u>	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blood gut (sheep and goat), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Red gut (Sheep), Trauma, Downer, Traumatic Reticulopericarditis, Other, Vestubular syndrome (Middle ear infection)								
Metabolic [<u> Diseases</u>		Acidosis, D	isplaced	aboması	um, <u>Ketosis</u> , <u>I</u>	Milk Fever		
Reproducti	ve diseases					ndometritis, <u>N</u> Jterus prolaps			
Climatical (<u>Cause</u>		Cold expos	sure, <u>Dro</u> u	ught, Lig	htning, Froze	n to death		
Non specifi	ic diseases		Cause of d	eath not	establisl	ned, <u>Preditors</u>	, <u>Sabotatio</u>	<u>n - Theft</u> , <u>Tı</u>	rauma
Internal	Parasites								
Roundwo	orms in gen	eral							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (5)		2.0 (2)	2.3 (4)	2.7 (10)	2.0 (4)	1.8 (4)	2.3 (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	10 cases
Beef	2.0(1)					2.0(1)			
Sheep	2.7 (3)		2.0 (1)	2.0 (3)	2.7 (10)	2.0 (1)	1.5 (2)	2.3 (3)	
Goat	2.0 (1)		2.0 (1)	3.0 (1)		2.0 (2)	2.0 (2)		
Mpumalang									
	100iplaas Vete	erinêre Die	enste						
Sheep: 2	, Middelburg	Dierehoen	itaal						
Sheep: 3	, i-iladelburg	zici cilosp	····						
	lelspruit Anim	al Hospita	ıl						
Goat: 2									
Standerton,									
	Beef: 2, Sheep: 3								
Limpopo Polokwane, Pietersburg Veterinary Clinic									
	Sheep: 2, Goat: 2								
North West									
Christiana, Christiana Dierehospitaal									
Sheep: 2									

Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 1

Potchefstroom, Morvet

Sheep: 3, Goat: 3
Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Bultfontein, Greylingsrust Dierespreekkamer

Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 2

Harrismith, Harrismith Dierehospitaal

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Underberg, Underberg Veterinary Surgery

Sheep: 2, Goat: 2 **Eastern Cape**

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1, Goat: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2
Western Cape

Caledon, Caledon Dierekliniek

Sheep: 2

George, George Animal Hospital

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Resistant Round Worms										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)	2.0 (2)		1.0 (1)	1.8 (5)		2.0 (2)	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	2.0 (1)	2.0 (2)	1.0 (1) 1.8 (5)	2.0 (1)	2.5 (2)	
Goat	1.0(1)			2.0 (1)		

Mpumalanga

Hendrina, Mooiplaas Veterinêre Dienste

Sheep: 2, Goat: 1

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2

Bronkhorstspruit, Kerkstraat Dierekliniek

Sheep: 2
North West

Christiana, Christiana Dierehospitaal

Sheep: 1
Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 1

Ladybrand, Ladybrand Dierekliniek

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 1
Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2
Western Cape

Caledon, Overberg Veterinary Hospital

Sheep: 2

George, George Animal Hospital

Sheep: 3

Wireworm										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.7 (7)	2.8 (6)	1.8 (4)	1.0 (2)	2.3 (13)	2.0 (3)	1.7 (3)	2.7 (3)	2.0 (1)	

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

Sheep	2.7 (6)	2.8 (4)	1.7 (3) 1.	.0 (2) 2.3 (13)	2.0 (1)	2.0 (2)	2.7 (3)	2.0 (1)
Goat	3.0 (1)	3.0 (2)	2.0 (1)		2.0(2)	1.0(1)		

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 2

Hendrina, Mooiplaas Veterinêre Dienste

Sheep: 3

Lydenburg, Longtom Dierekliniek Sheep: 3, Goat: 3 **Malelane, Malelane Dierekliniek** Sheep: 2 Small Damara flock **Piet Retief, Pets Vet Hospital** Sheep: 3 **Standerton, Econovet** Sheep: 3 Gauteng **Bapsfontein, Bapsfontein Dierehospitaal** Sheep: 2 Bronkhorstspruit, Kerkstraat Dierekliniek Sheep: 3, Goat: 3 Hammanskraal, Themba Animal Clinic Sheep: 3, Goat: 3 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Sheep: 3 24 cases Limpopo Makhado, Blouberg Dierekliniek Sheep: 2 **Mokopane, Dr Henk Visser Polokwane, Pietersburg Veterinary Clinic** Sheep: 2, Goat: 2 **North West** Leeudoringstad, Leeudoringstad Dierekliniek Sheep: 1 One sheep died Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 1 **Free State Bultfontein, Greylingsrust Dierespreekkamer** Clocolan, Clocolan Dierekliniek Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte Sheep: 3 Harrismith, Harrismith Dierehospitaal Sheep: 3 Hoopstad, Hoopstad Dierekliniek Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Sheep: 3 Ladybrand, Ladybrand Dierekliniek Sheep: 3 **Memel, Memel Veterinary Clinic** Sheep: 1 **Reitz, Riemland Dierehospitaal** Sheep: 2 **Smithfield, Freestate Smithfield SV** Sheep: 1

Bethulie, very high infestation

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 3									
	shoek Dierepr	aktuk							
	sпоек Dierepr	акцук							
Sheep: 2	n Wassalshia	m Diarakli	miok						
	n, Wesselsbro	ii Dierekii	пек						
Sheep: 1 Kwazulu-Na	-1-1								
		Vat CI:							
	n, Camperdov	vn vet Cii	nic						
Goat: 2		•							
	tcourt Vet Cli	nic							
Sheep: 2, Go									
Eastern Cap									
	h, Hertzogbrug	g Diereklii	niek						
Sheep: 2									
	et, Camdeboo	Veterina	ry Clinic						
Goat: 1									
	ast, Bosberg V	eterinary	Clinic						
Sheep: 2									
Western Ca									
	erberg Veteri	nary Hosp	ital						
Sheep: 3									
	orge Animal H	ospital							
Sheep: 3									
	n, Swellendam	Dierehos	pitaal						
Sheep: 2									
Northern Ca	-								
	Kimberley Die	rekliniek							
Sheep: 2									
	omach-wor	m							^
Brown st	omach-wor		Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Brown st			Limpopo					Саре	
PROVINCE Average Level of impositions		Gauteng		West	State	Natal	Cape 2.5 (2)	Cape 1.5 (2)	Саре
PROVINCE Average	Mpumalanga	Gauteng		West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impositions	Mpumalanga	Gauteng		West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2)	Саре
PROVINCE Average Level of impereported	Mpumalanga	Gauteng		West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat	Mpumalanga ortance scale: 1	Gauteng		West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap	Mpumalanga ortance scale: 1	Gauteng = one case	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of imporeported Sheep Goat Eastern Cap Graaff-Rein	Mpumalanga ortance scale: 1	Gauteng = one case	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2	Mpumalanga ortance scale: 1 oe net, Camdeboo	Gauteng = one case Veterinar	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg	Mpumalanga ortance scale: 1	Gauteng = one case Veterinar	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg Sheep: 3	Mpumalanga ortance scale: 1 oe net, Camdeboo	Gauteng = one case Veterinar	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Cap	Mpumalanga ortance scale: 1 oe net, Camdeboo , Steynsburg E	Gauteng = one case Veterinar Dierehospi	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Ca Caledon, Ox	Mpumalanga ortance scale: 1 oe net, Camdeboo	Gauteng = one case Veterinar Dierehospi	e, 2 = more	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Car Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Ca Caledon, Ox Sheep: 2	Mpumalanga ortance scale: 1 oe et, Camdeboo , Steynsburg E pe verberg Veteri	Gauteng = one case Veterinar Dierehospi	e, 2 = more ry Clinic itaal	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Ca Caledon, Ox Sheep: 2 Stellenboso	Mpumalanga ortance scale: 1 oe net, Camdeboo , Steynsburg E	Gauteng = one case Veterinar Dierehospi	e, 2 = more ry Clinic itaal	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Car Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Ca Caledon, Ox Sheep: 2	Mpumalanga ortance scale: 1 oe et, Camdeboo , Steynsburg E pe verberg Veteri	Gauteng = one case Veterinar Dierehospi	e, 2 = more ry Clinic itaal	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре
PROVINCE Average Level of impreported Sheep Goat Eastern Cap Graaff-Rein Goat: 2 Steynsburg Sheep: 3 Western Ca Caledon, Ox Sheep: 2 Stellenboso	Mpumalanga ortance scale: 1 oe net, Camdeboo , Steynsburg D pe verberg Veteri	Gauteng = one case Veterinar Dierehospi	e, 2 = more ry Clinic itaal	West	State	Natal	2.5 (2) en and 3 =	Cape 1.5 (2) more than	Саре

Average Limpopo West State Natal Cape 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 Sheep Eastern Cape Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng 1.0 (1) 3.0 (1) Limpopo North Free Kwazulu-Ratal Feef: 1.0 (1) Sheep Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng 1.0 (1) Sheep 1.0 (1) Sheep 3.0 (1) Limpopo Polokwazulu-Natal Petermaritzburg, Veterinary House Hospital Beef: 3 Tape Worms PROVINCE Mpumalanga Gauteng 1.0 (1) 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 3.0 (1) 1.0 (1) 2.0 (1) 2.0 (2) Sheep 3.0 (1) Jon (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 Eastern Cape Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo West State Natal	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Sheep Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Suppose State Stan ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (1) Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Breef: 1 Kwazulu-Natal State Natal State Na	Average							2.0 (1)		
Eastern Cape Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo Morth West State State Natal Eastern Cape Cape Cape Cape Cape Cape Cape Cape		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Steynsburg, Steynsburg Dierehospitaal Sheep: 2 Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo North West State S	Sheep							2.0 (1)		
Eye worm (Thelazia rhodesii) PROVINCE Mpumalanga Gauteng Limpopo North West State Matal Cape Cape Cape Northern Cape 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (1) 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) Tape Worms PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average 3.0 (1) 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) Goat 2.0 (2) 2.0 (1) 2.0 (2) Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1 PROVINCE Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	-									
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 1.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (1) Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1 Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3 Tape Worms PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape Average 3.0 (1) 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef: 1 1.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) 2.0 (2) Sheep 3.0 (1) 2.0 (2) 1.0 (1) Goat 1.0 (1) 2.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1		, Steynsburg D	ierehospi	itaal						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape 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) Sheep: 3.0 (1) Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1 Limpopo North West State Natal PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 3.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Goat 2.0 (1) 2.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Sneep: 2									
Average 1.0 (1) 3.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 3.0 (1) Limpopo Polokwane, Pietersburg Veterinary House Hospital Beef: 3 Tape Worms Average 3.0 (1) 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 2.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) 2.1 (7) 2.0 (1) 2.0 (2) Sheep 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Eye worn	n (<i>Thelazia</i>	rhodesii)						^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Beef 1.0 (1) 3.0 (1) Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1 Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3 Tape Worms PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape Cape Cape Cape Cape Cape	Average			1.0(1)			3.0 (1)			
Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1 Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3 Tape Worms PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Natal (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) Sheep 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg Middelburg Dierehospitaal Sheep: 3 Middelburg Middelburg Dierehospitaal Sheep: 3 Polokwane, Pietersburg Veterinary Clinic Beef: 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
Polokwane, Pietersburg Veterinary Clinic Beef: 1 Kwazulu-Natal Pietermaritzburg, Veterinary House Hospital Beef: 3 Tape Worms PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Average 3.0 (1) 1.0 (1) 2.0 (1) 2.1 (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) Sheep 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg Middelburg Dierehospitaal Sheep: 3 Beef: 1.0 (1) 2.0 (1) 2.0 (2) Mpumalanga Middelburg Middelburg Veterinary Clinic Beef: 1	Beef			1.0(1)			3.0 (1)			
PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Cape Cape Cape 1.0 (1) 2.0 (1) 2.1 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (2) Sheep 3.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) Mpumalanga Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Pietermarit Beef: 3	zburg, Veterin	ary House	e Hospital						^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) 2.0 (1) (7) 1.7 (3) 1.7 (3) 2.0 (2) 1.0 (1)			Gauteng	Limpopo					_	Northern Cape
Sheep	Average	3.0 (1)		1.0 (1)	2.0 (1)		1.7 (3)	1.7 (3)	2.0 (2)	1.0 (1)
Sheep 3.0 (1) 2.0 (1) 2.1 (7) 2.0 (1) 2.0 (2) Goat 1.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg , Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 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) 2.0 (1) 2.1 (7) 2.0 (1) 2.0 (2) Goat 1.0 (1) 1.5 (2) 1.0 (1) Mpumalanga Middelburg , Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Beef			1.0(1)			2.0(2)			
Mpumalanga Middelburg , Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Sheep	3.0 (1)			2.0 (1)			2.0 (1)	2.0 (2)	
Middelburg , Middelburg Dierehospitaal Sheep: 3 Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Goat						1.0 (1)	1.5 (2)		1.0(1)
Limpopo Polokwane, Pietersburg Veterinary Clinic Beef: 1	Middelburg		Dierehosp	itaal						
	Limpopo Polokwane,	Pietersburg V	eterinary	Clinic						
NULLII WESL	Deel. 1									

Sheep: 2 Free State Bloemfontein, Sheep: 3 Ficksburg, Oos Sheep: 3 Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 Viljoenskroon, Sheep: 2 Villiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ Beef: 3	svrystaat Die arrismith Die oonstad Die nd Dierehosp , Viljoenskro poort Dierek I ourt Vet Clin	ere Produ erehospita rehospita bitaal oon Dierel diniek Ver	aal al kliniek)					
Bloemfontein, Sheep: 3 Ficksburg, Oos Sheep: 3 Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	svrystaat Die arrismith Die oonstad Die nd Dierehosp , Viljoenskro poort Dierek I ourt Vet Clin	ere Produ erehospita rehospita bitaal oon Dierel diniek Ver	aal al kliniek	D					
Sheep: 3 Ficksburg, Oos Sheep: 3 Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilgel Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	svrystaat Die arrismith Die oonstad Die nd Dierehosp , Viljoenskro poort Dierek I ourt Vet Clin	ere Produ erehospita rehospita bitaal oon Dierel diniek Ver	aal al kliniek						
Ficksburg, Oos Sheep: 3 Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Keitz, Riemlan Sheep: 2 Villiers, Wilgel Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	arrismith Die nonstad Dien nd Dierehosp , Viljoenskro poort Dierek l ourt Vet Clin	erehospita rehospita pitaal pon Dierel diniek Ve	aal al kliniek						
Sheep: 3 Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilgep Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	arrismith Die nonstad Dien nd Dierehosp , Viljoenskro poort Dierek l ourt Vet Clin	erehospita rehospita pitaal pon Dierel diniek Ve	aal al kliniek						
Harrismith, Ha Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 Villjoenskroon, Sheep: 2 Villiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	oonstad Dier nd Dierehosp , Viljoenskro poort Dierek l ourt Vet Clin	rehospita pitaal pon Dierel kliniek Vel	al kliniek)					
Sheep: 1 Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 Viljoenskroon, Sheep: 2 Villiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	oonstad Dier nd Dierehosp , Viljoenskro poort Dierek l ourt Vet Clin	rehospita pitaal pon Dierel kliniek Vel	al kliniek)					
Kroonstad, Kro Sheep: 2 Reitz, Riemlan Sheep: 2 Viljoenskroon, Sheep: 2 Villiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	nd Dierehosp , Viljoenskro poort Dierek I ourt Vet Clin	oitaal oon Dierel Iliniek Ve	kliniek)					
Sheep: 2 Reitz, Riemlan Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilger Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	nd Dierehosp , Viljoenskro poort Dierek I ourt Vet Clin	oitaal oon Dierel Iliniek Ve	kliniek)					
Reitz, Riemlan Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilge Sheep: 2 (wazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	, Viljoenskro poort Dierek I ourt Vet Clin	on Dierel diniek Ver)					
Sheep: 2 /iljoenskroon, Sheep: 2 /illiers, Wilger Sheep: 2 /wazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	, Viljoenskro poort Dierek I ourt Vet Clin	on Dierel diniek Ver)					
Viljoenskroon, Sheep: 2 Villiers, Wilge Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	poort Dierek I ourt Vet Clin	diniek Ver)					
Sheep: 2 Villiers, Wilge Sheep: 2 (wazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	poort Dierek I ourt Vet Clin	diniek Ver)					
Villiers, Wilge Sheep: 2 (wazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	I ourt Vet Clin	ic	nnootskap)					
Sheep: 2 Kwazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	I ourt Vet Clin	ic	nnootskap)					
(wazulu-Nata Estcourt, Estco Goat: 1 Newcastle, KZ	ourt Vet Clin								
Estcourt, Estco Goat: 1 Newcastle, KZ	ourt Vet Clin								
Goat: 1 Newcastle, KZ	'N Newcastle								
Newcastle, KZ		e SV							
		e SV							
200t: 3	urg, Veterina								
	urg, Veterina								
		ary House	Hospital						
Beef: 1									
astern Cape			-II I						
Graaff-Reinet,	Camdeboo	Veterinar	y Clinic						
Goat: 1									
leffreys Bay, C	Cape Cross V	eterinary	/ Hospital						
Sheep: 2									
Somerset East	t, Bosberg Vo	eterinary	Clinic						
Goat: 2									
Nestern Cape									
George, Georg	je Animal Ho	spital							
Sheep: 3									
Stellenbosch,	Stellenbosch	n Animal I	Hospital						
Sheep: 1									
Northern Cape									
Kimberley, Kir	nberley Dier	ekliniek							
Goat: 1									
Coenuris cerebra	<i>alis</i> , Draaisiek	te, Turning	g disease						,
Deve Glevie									
Parafilaria									_
PROVINCE M	pumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
	pamaianga	Guuteg	popo	West	State	Natal	Cape	Cape	Cape
Average						2.5 (2)			
Level of importa	ance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
reported									
						0.5 (0)			
Beef						2.5 (2)			

Beef: 2

Pietermarit Beef: 3	zburg, Veterin	ary House	e Hospital						
Liver fluk	æ								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.0 (1)				3.0 (2)			
Level of impo reported	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	2.3 (3)	2.0(1)				3.0 (2)			
Sheep	2.0 (3)								
Beef: 1, Shee Lydenburg,	looiplaas Vete p: 1 Longtom Dier		enste						
Beef: 3, Shee Standerton, Beef: 3, Shee Gauteng	Econovet								
<mark>Hammanskı</mark> Beef: 2 Kwazulu-Na	raal, Themba <i>l</i> otal	Animal Cli	nic						
	zburg, Veterin	ary House	Hospital						
Underberg, Beef: 3	Underberg Ve	terinary S	Surgery						
Conical F	lukes								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)				1.0 (4)	2.0 (2)			
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
Beef	3.0 (1)				1.0 (4)	3.0 (1)			
Dairy						1.0 (1)			
Mpumalang Lydenburg, Beef: 3	a Longtom Dier	ekliniek							
Free State Harrismith, Beef: 1	Harrismith Die	erehospita	aal						
Memel, Me n Beef: 1	nel Veterinary								
	shoek Dierepra								

	n, Wesselsbro	n Dierekli	niek						
Beef: 1	,								
Kwazulu-Na	ital								
Dundee, En	dumeni Herd l	nealth							
Dairy: 1									
	zburg, Veterin	ary House	e Hospital						
Beef: 3									
Cysticero	osis								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			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)						
Goat				•					2.0(1)
Limpopo									10 (1)
Goat: 2									
External Blue ticks	Parasites								_
Blue ticks		Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Blue ticks	5	Gauteng 2.0 (1)	Limpopo		State		Cape	Cape	
PROVINCE Average Level of impo	Mpumalanga	2.0 (1)		West 1.8 (4)	2.6 (16)	Natal 2.7 (9)	Cape 2.0 (4)	2.4 (5)	Саре
Blue ticks PROVINCE Average	Mpumalanga 2.4 (7)	2.0 (1)		West 1.8 (4)	2.6 (16) e case b	Natal 2.7 (9)	Cape 2.0 (4)	2.4 (5)	Саре
PROVINCE Average Level of imporeported	Mpumalanga 2.4 (7) ortance scale: 1	2.0 (1) = one case		West 1.8 (4) than one	2.6 (16) e case b	Natal 2.7 (9) ut less than to	2.0 (4) en and 3 =	Cape 2.4 (5) more than	Саре
PROVINCE Average Level of imporeported Beef	Mpumalanga 2.4 (7) ortance scale: 1	2.0 (1) = one case		West 1.8 (4) than one	2.6 (16) e case b 2.7 (12) 2.0 (2)	2.7 (9) ut less than to	2.0 (4) en and 3 =	2.4 (5) more than 2.5 (2)	Саре

Beef: 3 Lydenburg, Longtom Dierekliniek Middelburg, Middelburg Dierehospitaal **Piet Retief, Pets Vet Hospital** Beef: 3 Standerton, Econovet Beef: 3 Gauteng Hammanskraal, Themba Animal Clinic Beef: 2 **North West** Klerksdorp, Klerksdorp Dierehospitaal Beef: 1, Sheep: 1 Stella, Stella Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 2 Free State **Bloemfontein, Dr Stephan Wessels** Beef: 3 Ficksburg, Oosvrystaat Diere Produkte Beef: 3, Dairy: 2, Sheep: 3 Harrismith, Harrismith Dierehospitaal Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Dairy: 2 Ladybrand, Ladybrand Dierekliniek Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 2 Parys, Parys Dierehospitaal Beef: 3 Reitz, Riemland Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2 **Vrede, Saulshoek Dierepraktyk** Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 3 **Estcourt, Estcourt Vet Clinic** Beef: 3, Dairy: 3 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Pietermaritzburg, Veterinary House Hospital**

Beef: 3, Dairy: 1

Undorbora	Underberg Ve	torinary S	Surgony						
Beef: 3	Oliderberg Ve	termary 3	urgery						
Eastern Cap	e								
	Alexandria Pla	atteland S	Spreekkam	ner					
Beef: 2, Dairy			•						
Aliwal Nortl	h, Hertzogbrug	g Dierekli	niek						
Beef: 2									
Witelsbos, \	Nitelsbos Vete	erinary Co	nsulting R	looms					
Beef: 2									
Western Ca									
	orge Animal H	ospital							
Beef: 3, Dairy									
	(WC), Heidelb	erg Diere	Kliniek						
Beer: 2, Dairy	/: 2, Sheep: 2								
Resistant	blue Ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				3.0 (1)	2.0 (2)	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	2.0 (1)				3.0 (1)	2.0 (2)	2.0 (1)		
Dairy							2.0(1)		
Mpumalang	а								
Hendrina, M	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Free State									
	loopstad Dier	ekliniek							
Beef: 3									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2	zburg, Veterin	ant Haus	. Usanital						
Beef: 2	zburg, veterin	ary nouse	е поѕрісаі						
Eastern Cap	e								
	ve Witelsbos Vete	erinary Co	nsultina R	looms					
Beef: 2, Dairy		,							
	er (Bont) ti	icks							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.6 (5)	2.2 (5)	1.3 (3)	1.0 (1)		1.8 (12)			

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 (2)	1.0(1)	1.0(1)		2.4 (5)			
Dairy	, ,					2.0 (1)			
Sheep	3.0 (1)	2.0(1)				1.3 (3)			
Goat	· , ,	, ,	1.5 (2)			. ,			
	2.5 (2)	2.5 (2)	1.5 (2)			1.3 (3)			
Mpumalang									
	Longtom Dier	екипіек							
Beef: 3, Shee	p: 3, Goat: 3 , Middelburg l	Diorobocn	itaal						
Beef: 2, Goat		Dierenosp	ılaaı						
Gauteng	. 2								
	raal, Themba	Animal Cli	nic						
Beef: 2, Shee									
	derstepoort A	cademic I	Hospital a	nd Produ	uction A	Animal Clinic			
Beef: 2, Goat			p						
Limpopo									
	Dr Henk Visse	r							
Beef: 1, Goat									
	Pietersburg V	eterinary/	Clinic						
Goat: 2									
North West									
	Klerksdorp Di	ierehospit	aal						
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 3		121.							
Dunaee, End Beef: 2	dumeni Herd I	neaith							
	tcourt Vet Cli	nic							
	: 2, Sheep: 2, (
	Mtubatuba Aı		ic						
Beef: 3	Pitabataba Ai	illiai Cilli							
	zburg, Veterin	arv House	Hospital						
Beef: 2, Shee		,	,						
	ngola Animal	Clinic							
Sheep: 1, Go									
Brown ea									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
Average	2.5 (2)			3.0 (1)		2.6 (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	2.5 (2)			3.0 (1)		2.6 (5)			
Mpumalang	a								
	Longtom Dier	ekliniek							
Beef: 3									
Standerton,	Econovet								
	LCOHOVEL								
Beef: 2 North West									

Klerksdorn	Klerksdorp Di	erehosnit	aal									
Beef: 3	Kici Kadoi p Di	Cicilospic	uui									
Kwazulu-Na	atal											
	ergville Veteri	nary Clinic	C									
Beef: 3		_										
Dundee, En	dumeni Herd l	nealth										
Beef: 3 Mtubatuba, Mtubatuba Animal Clinic												
Mtubatuba,	Mtubatuba Ar	nimal Clini	ic									
Beef: 2												
	zburg, Veterin	ary House	Hospital									
Beef: 2												
	Underberg Ve	terinary S	Surgery									
Beef: 3												
Bont-leg	ged ticks								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	3.0 (2)			2.8 (5)	2.2 (6)	2.0 (1)	3.0 (2)		2.0 (4)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than :	10 cases			
Beef	3.0 (2)			3.0 (3)	(4)	2.0 (1)	3.0 (1)		2.5 (2)			
Sheep				2.5 (2)	2.5 (2)		3.0 (1)		1.0 (1)			
Goat									2.0(1)			
Mpumalang	a											
Bethal, Beth	nal Diereklinie	k										
Beef: 3												
	Longtom Dier	ekliniek										
Beef: 3												
North West			•									
	Christiana Die	renospita	ai									
Beef: 3	Vlaskadass Di	b -										
Beef: 3, Shee	Klerksdorp Di	erenospic	ddi									
	stad, Leeudori	nastad Di	erekliniek									
Beef: 3	Jeau, Lecauoii	ngstaa Di	Crckiiiick	•								
	Reneke, Buffel	doorn Die	rekliniek	SR								
Sheep: 2	•											
Free State												
Hoopstad, F	loopstad Dier	ekliniek										
Beef: 3, Shee												
	Kroonstad Die	rehospita	al									
Beef: 2, Shee												
	nel Veterinary	Clinic										
Beef: 1												
Vrede, Saulshoek Dierepraktyk Beef: 2												
Beer: 2 Kwazulu-Na	atal											
NWdZUIU-Na	ıcaı											

Beraville, Be	ergville Veteri	nary Clini	c						
Beef: 2		,							
Eastern Cap	A								
<u> </u>	Steynsburg D	Nierehoeni	itaal						
Beef: 3, Shee		rici ci iospi	ıcaaı						
Northern Ca									
	Aar Veterinary	Clinic							
Beef: 3	aai veteiillaiy	Cillic							
Warmer weat	hor								
	g, Postmasbu	ra Diorok	liniak						
Beef: 2, Shee		ig Dielek	iiiiek						
Red-legg	ed ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							•		•
Average				3.0 (1)	2.3 (9)	2.0 (3)			
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)	2.4 (5)	2.0 (3)			
Sheep					2.3 (4)				
North West									
Christiana, (Christiana Die	rehospita	al						
Beef: 3									
Free State									
Hoopstad, H	loopstad Dier	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 2, Shee		<u>.</u>							
	nel Veterinary	Clinic							
Beef: 2, Shee									
	Dierehospita	al							
Beef: 3, Shee									
	shoek Dierepr	aktyk							
Beef: 2	•	-							
Kwazulu-Na	ital								
Pietermaritz Beef: 2	zburg, Veterin	ary House	e Hospital						
Pongola, Po	ngola Animal	Clinic							
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
Paralysis	ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

						_			_
					2.0		• • (1)	20(4)	
Average					(3)		2.0 (1)	3.0 (1)	
reported	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					1.0 (1)				
Chaon					2.5		2.0 (1)	3.0 (1)	
Sheep					(2)		2.0 (1)	3.0 (1)	
Free State									
	Greylingsrust	Dierespr	eekkamer						
Beef: 1									
	Rowelsfontein	veearts S	Spreekkan	ner					
Sheep: 2	shoek Dierepr	aktyk							
Sheep: 3	Silvek Dierepi	акцук							
Eastern Cap	e e								
	ast, Bosberg V	eterinary	Clinic						
Sheep: 2		•							
Western Ca									
	est, Beaufort \	West State	e Vet						
Sheep: 3									
Some farmers	s failed to treat	their sheep	in time						
Biting lice	e (red lice)			,	,				^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)				
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
Sheep					2.0				
					(2)				
Free State Villiers, Wile	gepoort Dierel	diniek Ve	nnootskan)					
Sheep: 2	, , , , , , , , , , , , , , , , , , ,								
	shoek Dierepr	aktyk							
Sheep: 2									
Sucking I	ice (blue lic	e)							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	1.0(1)
Level of impo	ortance scale: 1		2	H					10

Sheep								1.0 (1)	
Goat								1.0 (1)	1.0 (1)
Western Ca	n o								1.0 (1)
	pe Irg, Tygerberg	moorees	bura						
Sheep: 1	5, . , 50. 50. 5		Ju. 5						
Northern Ca	аре								
Postmasbur	rg, Postmasbu	rg Dierekl	liniek						
Goat: 1									
Scab mit	es								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							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
Sheep							3.0 (1)		
Eastern Cap	e								
_	, Steynsburg D	Dierehospi	itaal						
Nuisance	Flies								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (2)			2.8 (10)	2.9 (7)	2.0 (2)	1.8 (9)	
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)			2.6 (5)	2.8 (4)	2.0 (1)	1.5 (4)	
Dairy					3.0 (2)	3.0 (1)	2.0 (1)	2.0 (3)	
Sheep		3.0 (1)			3.0 (3)	3.0 (1)		2.0 (2)	
Goat						3.0 (1)			
Gauteng									
	r g, Magaliesb u ep: 3	ırg; Dr Ry	an Jeffrey						
Free State	_								
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 3, Shee	ep: 3								
	, Greylingsrust	t Dierespr	eekkamer						
Beef: 3, Shee									
	Oosvrystaat Di	ere Produ	ıkte						
beer: 3, Dairy	y: 3, Sheep: 3								

Harrismith, I									
	Harrismith Di	erehospita	aal						
Beef: 2									
	(roonstad Die	rehospita	al						
Dairy: 3									
	nel Veterinary	Clinic							
Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 3		•							
	court Vet Clir								
	: 3, Sheep: 3, C		•						
	Mtubatuba Ar	nımai Clin	IC						
Beef: 2	Vataria								
Beef: 3	burg, Veterin	ary House	Hospitai						
	_								
Eastern Cape	e Alexandria Pla	attaland S	hrookkam	105					
		atteraniu S	ргееккап	iei					
Beef: 2, Dairy: Western Cap									
	, Dr Otto Krie	l _r							
Dairy: 2	, Di Otto Kile	<u> </u>							
•	, Malmesbury	Dierehos	nitaal						
Beef: 3, Dairy		Dicicios	pitaai						
Oudtshoorn,									
Beef: 1	- Common								
After 7 mm of	rain								
Oudtshoorn,	Oudtshoorn	Diereklini	ek						
Beef: 1, Sheer	o: 1								
Beef: 1, Sheep Stellenbosch	o: 1 n , Stellenbosc								
	n, Stellenbosc								
Stellenbosch Beef: 1, Dairy	n, Stellenbosc								
Stellenbosch	n, Stellenbosc								^
Stellenbosch Beef: 1, Dairy Blowflies	n, Stellenbosc	h Animal	Hospital	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Stellenbosch Beef: 1, Dairy Blowflies	n, Stellenbosc : 1	h Animal	Hospital						
Stellenbosch Beef: 1, Dairy Blowflies	n, Stellenbosc : 1	h Animal	Hospital				Cape		
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average	n, Stellenbosc : 1 Mpumalanga	Gauteng	Hospital Limpopo	West	3.0 (3)	Natal	2.0 (1)	3.0 (3)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of impo	Mpumalanga	Gauteng	Hospital Limpopo	West	3.0 (3)	Natal	2.0 (1)	3.0 (3)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported	Mpumalanga	Gauteng 1.0 (2) = one case	Hospital Limpopo	West	3.0 (3) e case b	Natal	2.0 (1)	3.0 (3) more than 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef	Mpumalanga	Gauteng 1.0 (2) = one case	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1)	Cape 3.0 (3) more than	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy Sheep	Mpumalanga	Gauteng 1.0 (2) = one case 1.0 (1)	Hospital Limpopo	West	3.0 (3) e case b	Natal	2.0 (1)	3.0 (3) more than 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 1.0 (1) rtance scale: 1	Gauteng 1.0 (2) = one case	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1) en and 3 =	3.0 (3) more than 3.0 (1) 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalanga	Mpumalanga 1.0 (1) rtance scale: 1 1.0 (1)	Gauteng 1.0 (2) = one case 1.0 (1)	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1) en and 3 =	3.0 (3) more than 3.0 (1) 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalanga Malalane, Ma	Mpumalanga 1.0 (1) rtance scale: 1 1.0 (1)	Gauteng 1.0 (2) = one case 1.0 (1)	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1) en and 3 =	3.0 (3) more than 3.0 (1) 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalanga Malalane, M	Mpumalanga 1.0 (1) rtance scale: 1 1.0 (1)	Gauteng 1.0 (2) = one case 1.0 (1) 1.0 (1) kliniek	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1) en and 3 =	3.0 (3) more than 3.0 (1) 3.0 (1)	Cape
Stellenbosch Beef: 1, Dairy Blowflies PROVINCE Average Level of imporeported Beef Dairy Sheep Goat Mpumalanga Malalane, M	Mpumalanga 1.0 (1) rtance scale: 1 1.0 (1)	Gauteng 1.0 (2) = one case 1.0 (1) 1.0 (1) kliniek	Hospital Limpopo	West	3.0 (3) e case b 3.0 (1)	Natal	2.0 (1) en and 3 =	3.0 (3) more than 3.0 (1) 3.0 (1)	Cape

Uammaneki	raal Thomba	Animal Cli	nic						
Beef: 1, Goat	raal, Themba <i>I</i> · 1	Allilliai Cii	IIIC						
Free State	. 1								
	in, Dr Stephan	Wessels							
Beef: 3	iii, Di Stepilai	WC33CI3							
	loopstad Diere	kliniek							
Sheep: 3	loopstaa Bici								
	gepoort Dierel	diniek Ve	nnootskar	•					
Sheep: 3	gepoort Diere.	MILION VO	шоосокар	2					
Eastern Cap	ie								
	h, Hertzogbrug	ı Diereklii	niek						
Sheep: 2	.,	,							
Western Ca	pe								
	, Malmesbury	Dierehos	pitaal						
	/: 3, Sheep: 3		•						
Screw-wo	orm								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (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
Sheep					2.0 (1)				
Goat							1.0(1)		
Free State									
	land Dierehos	pitaal							
Sheep: 2									
Eastern Cap									
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Cradock									
Nasal bot	larvae								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			3.0 (2)	2.4 (5)		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	2.0 (2)			3.0 (1)	2.4 (5)		3.0 (1)		
Goat				3.0(1)					
Mpumalang	a								
	looiplaas Vete	rinêre Die	enste						

Sheep: 2									
Standerton,	Econovet								
Sheep: 2									
North West									
Leeudorings	stad, Leeudori	ngstad Di	erekliniek						
Sheep: 3, Go	•								
Free State									
Ficksburg, C	Oosvrystaat Di	ere Produ	ıkte						
Sheep: 2									
Hoopstad, F	loopstad Diere	ekliniek							
Sheep: 3									
Reitz, Riem	land Dierehos	pitaal							
Sheep: 2									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap)					
Sheep: 3									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 2									
Eastern Cap	e								
Steynsburg	, Steynsburg D	Dierehospi	itaal						
Sheep: 3									
Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		3.0 (3)		3.0 (1)	2.0 (2)		
	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				3.0 (2)		3.0 (1)	2.0 (1)		
Sheep				3.0 (1)			2.0 (1)		
Goat		1.0 (1)							
Gauteng									
Hammanski	raal, Themba A	Animal Cli	nic						
Goat: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3									
-	o, Ventersdorp	Diereklin	iek						
Beef: 3, Shee	•								
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 3									
Eastern Cap			eli i						
Graaff-Rein Beef: 2, Shee	et, Graaff Rei r p: 2	net Veteri	nary Clinic						
Mosquito									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	2.0 (1)				2.5 (6)	3.0 (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					2.5 (4)	3.0 (1)			
Sheep	2.0 (1)				2.5 (2)				
Mpumalang	ja								
Standerton	, Econovet								
Sheep: 2									
Free State									
	, Greylingsrus	Dierespr	eekkamer						
Beef: 3	Joonstad Diam	aklimiak							
Hoopstad, I Beef: 3, Shee	Hoopstad Diero	екипіек							
	Ep: 3 Kroonstad Die	rehosnita	al						
Beef: 2	Ki oolistaa Die	i enospita	aı .						
	n, Wesselsbro	n Dierekli	niek						
Beef: 2, Shee	•	2.0. 0							
Kwazulu-Na									
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Other									
				Nauth	F	Kwazulu-	Eastern	\\/ b - · · · ·	No sello a sus
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Cape	Western Cape	Northern Cape
Average	Mpumalanga	Gauteng	3.0 (1)						
Average Level of imp	Mpumalanga ortance scale: 1		3.0 (1)	West	State	Natal	Cape	Cape	Cape
Average Level of impreported			3.0 (1) e, 2 = more	West	State	Natal	Cape	Cape	Cape
Average Level of imp reported Goat			3.0 (1)	West	State	Natal	Cape	Cape	Cape
Average Level of impreported Goat Limpopo	ortance scale: 1	= one case	3.0 (1) e, 2 = more	West	State	Natal	Cape	Cape	Cape
Average Level of imp reported Goat Limpopo Makhado, E		= one case	3.0 (1) e, 2 = more	West	State	Natal	Cape	Cape	Cape
Average Level of impreported Goat Limpopo Makhado, E Goat: 3	ortance scale: 1	= one case	3.0 (1) e, 2 = more	West	State	Natal	Cape	Cape	Cape
Average Level of impreported Goat Limpopo Makhado, E Goat: 3	ortance scale: 1 Blouberg Diere uitpeuloogsiekte	= one case	3.0 (1) e, 2 = more	West	State	Natal	Cape	Cape	Cape
Average Level of impreported Goat Limpopo Makhado, E Goat: 3 Gedoelstia - I Itch mite	ortance scale: 1 Blouberg Diere uitpeuloogsiekte	= one case	3.0 (1) e, 2 = more 3.0 (1)	West	State	Natal ut less than t	Cape	Cape	Cape
Average Level of impreported Goat Limpopo Makhado, E Goat: 3 Gedoelstia - I Itch mite	ortance scale: 1 Blouberg Diere uitpeuloogsiekte	= one case	3.0 (1) e, 2 = more 3.0 (1)	than on	e case b	Natal ut less than t	en and 3 =	more than Western	Cape 10 cases Northern
Average Level of impreported Goat Limpopo Makhado, E Goat: 3 Gedoelstia - I Itch mite PROVINCE Average	ortance scale: 1 Blouberg Diere uitpeuloogsiekte	= one case kliniek Gauteng	3.0 (1) e, 2 = more 3.0 (1) Limpopo	than on	e case b	wit less than t	Eastern Cape 3.0 (1)	Mestern Cape	Cape 10 cases Northern Cape
Average Level of impreported Goat Limpopo Makhado, E Goat: 3 Gedoelstia - I Itch mite PROVINCE Average Level of imp	ortance scale: 1 Blouberg Diere uitpeuloogsiekte Mpumalanga	= one case kliniek Gauteng	3.0 (1) e, 2 = more 3.0 (1) Limpopo	than on	e case b	wit less than t	Eastern Cape 3.0 (1)	Mestern Cape	Cape 10 cases Northern Cape

_			_	
Ea	ste	rn	Ca	pe

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Tick-borne Diseases											
African red water											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.5 (6)	2.0 (1)	1.3 (4)	1.5 (2)	1.7 (6)	2.6 (7)	2.5 (4)	2.1 (7)			

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 (6)	2.0 (1)	1.3 (4)	1.0(1)	1.7 (6)	2.5 (6)	3.0 (1)	2.0 (4)	
Dairy				2.0 (1)		3.0 (1)			

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Middelburg Dierehospitaal

Beef: 3

Piet Retief, Pets Vet Hospital

Beef: 3

Standerton, Econovet

Beef: 2

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2 Limpopo

Bela Bela, Artemis Veterinary Services

Beef: 1

One animal, treated recovered

Makhado, Blouberg Dierekliniek

Beef: 2

Mokopane, Dr Henk Visser

Beef: 1

Polokwane, Pietersburg Veterinary Clinic

Beef: 1
North West

Brits, Brits Dierekliniek

Dairy: 2

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1
Free State

Harrismith, Harrismith Dierehospitaal

Beef: 2

Ladybrand, Ladybrand Dierekliniek

Beef: 1

Parys, Parys Dierehospitaal

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 2

Vrede, Saulshoek Dierepraktyk

Beef: 1

Vrede, Vrede Dierehospitaal

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Newcastle, Ncanduvet Newcastle

Beef: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairv: 2

Alexandria, Riverview Trading Vet Consulting Services

Beef: 3, Dairy: 2

Jeffreys Bay, Cape Cross Veterinary Hospital

Dairy: 3

Western Cape

Ceres, Ceres Veterinary Hospital

Beef: 3

George, George Animal Hospital

Beef: 2, Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Beef: 2, Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 2

An outbreak occured when cows were bought in and placed in a vlei paddock.

Plettenberg Bay, Plettenberg Bay A Reitz

Beef: 1

One case out of 100 beef herd

Asiatic red water										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.5 (8)	2.0 (2)	1.0 (2)	1.5 (2)	1.6 (5)	2.3 (7)	2.0 (2)	1.7 (7)		

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 (8)	2.0 (2)	1.0 (2)	1.5 (2)	1.6	2.4 (5)	2.0 (2)	1.3 (4)	
Dairy		` ′	` ′	` '	(5)	2.0 (2)	` '	2.3 (3)	
•						2.0 (2)		2.3 (3)	
Mpumalan	_	inêna Cana	aleleanna au						
ermeio, мо Beef: 3	òregloed Veteri	nere Spre	ekkamer						
	Crostulai Diara	delimina							
Beef: 1	Grootvlei Diere	Kiiiiek							
	Mooiplaas Vete	rinôro Dio	ncto						
Beef: 3	Modipiaas vete	illiele Die	iiste						
	, Longtom Dier	ekliniek							
Beef: 2	, Longton Dici	CKIIIICK							
	g , Middelburg	Dierehosn	itaal						
Beef: 3	, i ilaacibai g	Dici cilosp	- Cuui						
	, Pets Vet Hosp	oital							
Beef: 3	,								
	n, Econovet								
Beef: 3									
Volksrust,	Cape Cross Vol	ksrust Die	rehospita	al					
Beef: 2	•		<u> </u>						
Gauteng									
Bapsfontei	n, Bapsfontein	Dierehosp	itaal						
Beef: 2									
Bronkhors	tspruit, Kerkstı	raat Dierek	diniek						
Beef: 2									
Limpopo									
	, Dr Henk Visse	er							
Beef: 1									
	e, Pietersburg \	eterinary/	Clinic						
Beef: 1	_								
North Wes									
	, Klerksdorp D	ierenospit	aaı						
Beef: 1	Vantanada	. Dia							
	rp, Ventersdorp	Dierekiin	iek						
Beef: 2 Free State									
	Oosvrystaat D	iara Dradu	kto.						
Beef: 1	Oosvi ystaat D	iere Frouu	NLC .						
	, Harrismith Di	erehospita	al						
Beef: 1	,	Cicioopic							
	mel Veterinary	Clinic							
Beef: 2									
Viljoenskro	oon, Viljoenskr	oon Dierek	liniek						
Beef: 3									
Vrede, Vre	de Dierehospit	aal							
Beef: 1									
Kwazulu-N									
	Bergville Veteri	inary Clinic	:						
Beef: 2									
	Tugela Vet Clin	ic							
Beef: 2									
Dundee, Er		health							
Beef: 3, Daii									

Dairy: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Red water present but not as bad as last year

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Beef: 2

Somerset East, Bosberg Veterinary Clinic

Beef: 2

Western Cape

Caledon, Caledon Dierekliniek

Beef: 1

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Oudtshoorn, Ostrimed

Beef: 2

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Riversdale, Riversdal Dierekliniek

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

Anaplasmosis										<u>^</u>
	PROVINCE	Mpumalanga	Gauteng	Limpopo			Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
1	Average	1.6 (5)	2.0 (1)	1.0 (1)	2.3 (3)	1.9 (14)	2.2 (6)	2.0 (6)	1.7 (11)	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	1.6 (5)	2.0 (1)	1.0(1)	2.3 (3)	1.6 (11)	2.0 (4)	1.8 (4)	1.7 (3)	3.0 (1)
Dairy						2.5 (2)			

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 1

Middelburg , Middelburg Dierehospitaal

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 3

Gauteng

Hammanskraal, Themba Animal Clinic Beef: 2 Limpopo Mokopane, Dr Henk Visser Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 1 **Ventersdorp, Ventersdorp Dierekliniek** Beef: 3 Free State **Bloemfontein, Dr Stephan Wessels** Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 3 Harrismith, Harrismith Dierehospitaal **Hoopstad, Hoopstad Dierekliniek** Beef: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Dairy: 3 Ladybrand, Ladybrand Dierekliniek Beef: 1 **Memel, Memel Veterinary Clinic** Beef: 1 **Reitz, Riemland Dierehospitaal** Beef: 2, Dairy: 2 Senekal, Senekal Dierekliniek Beef: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 1 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Dairy: 2 **Estcourt, Estcourt Vet Clinic** Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 2 **Eastern Cape** Alexandria, Alexandria Platteland Spreekkamer Aliwal North, Hertzogbrug Dierekliniek Beef: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic**

Beef: 1

Jeffreys Bay, Cape Cross Veterinary Hospital

Dairy: 3

Queenstown, Queenstown Veterinary clinic

Steynsburg, Steynsburg Dierehospitaal

Beef: 2

Western Cape

Caledon, Overberg Veterinary Hospital

Darling, Tygerberg Dierehospitaal Darling

Dairy: 1

George, George Animal Hospital

Beef: 2, Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Invitrotech

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Riversdale, Riversdal Dierekliniek

Dairy: 2

Vredenburg, Vredenburg Dierehospitaal

Beef: 1

Northern Cape

Kimberley, Kimberley Dierekliniek

Beef: 3

Heartwater										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (4)	1.7 (6)	2.0 (2)	2.0 (2)		1.7 (10)	2.2 (6)			
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 (3)	2.0 (3)	2.0 (2)	2.0(1)		1.8 (6)	2.0 (1)			
Dairy				2.0(1)		1.0(1)	2.5 (2)			
Sheep	2.0(1)	1.0(1)				1.0(1)	3.0 (1)			
Goat		1.5 (2)				2.0 (2)	1.5 (2)			
Mpumalang	a									

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Middelburg, Middelburg Dierehospitaal

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 2 Gauteng

Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2, Goat: 1

Hammanskraal, Themba Animal Clinic

Beef: 3, Shee									
	derstepoort A	cademic l	Hospital a	nd Prod	uction /	Animal Clini	С		
Beef: 1									
Treated anim	al, recovered								
Limpopo									
Makhado, B	louberg Dierel	kliniek							
Beef: 2									
Tzaneen, ZZ	2 Farm Practi	ce							
Beef: 2									
North West									
Brits, Brits I	Dierekliniek								
Dairy: 2									
	Klerksdorp Di	erehospit	aal						
Beef: 2									
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clini	r						
Beef: 2	ergrine recen	ilary Cillin	_						
	dumeni Herd h	nealth							
Beef: 2	uumem neru r	icaitii							
	nowe Veterina	n, Hocnit							
Beef: 2	iowe veterina	ту поѕріс	aı						
	tcourt Vet Clir	1IC							
Dairy: 1									
	Mtubatuba Ar	ıımai Clin	IC						
Beef: 3, Goat									
	zburg, Veterin	ary House	e Hospital						
Beef: 1									
	ngola Animal	Clinic							
Beef: 1, Shee									
Eastern Cap									
	Riverview Tra	ding Vet	Consulting	j Service	es				
Beef: 2, Dairy	<i>ı</i> : 2								
Bathurst, D	r Jane Pistoriu	S							
Goat: 2									
Jeffreys Bay	, Cape Cross \	eterinary	/ Hospital						
Dairy: 3, She			<u> </u>						
	Uitenhage Die	rehospita	al						
Goat: 1		<u> </u>							
Sweating	Sickness								^
								1	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (2)	1.0 (3)	1.0 (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 (2)	1.0 (3)	1.0 (1)			1.0(1)
North West									
	Christiana Die	rehosnita	al						
Beef: 3		. 5.1.55pica							

Leeudoringstad,	I couderingstad	Diarabliniak
Leeudormasiad.	Leeudormastad	Dierekiiniek

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Kwazulu-Natal

Pongola, Pongola Animal Clinic

Beef: 1

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Beef: 1

Insect Transmittable Diseases

Lumpy sk	din disease								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)	2.0 (1)	2.0 (2)	2.0 (10)	1.7 (3)			1.0 (1)

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

Beef	2.0 (2)	2.0 (1)	2.0 (1)	2.0 (2)	2.0 (8)	1.5 (2)	1.0(1)
Dairy					2.0 (2)	2.0 (1)	

Mpumalanga

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3

Middelburg , Middelburg Dierehospitaal

Beef: 1 Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 2 North West

Christiana, Christiana Dierehospitaal

Beef: 1

Potchefstroom, Morvet

Beef: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2

	Harrismith Di	erehospit	aal								
Beef: 2											
	loopstad Dier	ekliniek									
Beef: 3											
	Kroonstad Die	rehospita	al								
Beef: 2, Dairy											
Parys, Parys	s Dierehospita	al									
Beef: 2											
Reitz, Riem	land Dierehos	pitaal									
Beef: 2											
Senekal, Se	nekal Dierekli	niek									
Beef: 1											
Kwazulu-Na	ital										
Bergville, Be	ergville Veteri	nary Clini	С								
Beef: 2		_									
Dundee, En	dumeni Herd l	nealth									
Dairy: 2											
•	Mtubatuba Ar	nimal Clin	ic								
Beef: 1											
Northern Ca	ape										
	rg, Postmasbu	ra Dierek	liniek								
Beef: 1	g, : ccac										
Deen 1											
Three-da	y-stiffsickn	ess							^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (4)	2.5 (2)	2.0 (1)	1.7 (3)	2.4 (8)	2.3 (10)					
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases											
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		
	ortance scale: 1 2.0 (4)	= one case 2.5 (2)			2.4	ut less than to	en and 3 =	more than	10 cases		
reported					2.4		en and 3 =	more than	10 cases		
reported Beef Dairy	2.0 (4)				2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang	2.0 (4)	2.5 (2)			2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang	2.0 (4)	2.5 (2)			2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2	2.0 (4) a irootvlei Diere	2.5 (2)			2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2	2.0 (4)	2.5 (2)			2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2	2.0 (4) a Grootvlei Diere Longtom Dier	2.5 (2) kliniek ekliniek	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2	2.0 (4) a irootvlei Diere	2.5 (2) kliniek ekliniek	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1	2.0 (4) a Grootvlei Diere Longtom Dier , Middelburg I	2.5 (2) kliniek ekliniek Dierehosp	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1	2.0 (4) a Grootvlei Diere Longtom Dier	2.5 (2) kliniek ekliniek Dierehosp	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3	2.0 (4) a Grootvlei Diere Longtom Dier , Middelburg I	2.5 (2) kliniek ekliniek Dierehosp	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3 Gauteng	2.0 (4) a brootvlei Diere Longtom Dier , Middelburg I Pets Vet Hosp	2.5 (2) kliniek ekliniek Dierehosp	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3 Gauteng Bronkhorsts	2.0 (4) a Grootvlei Diere Longtom Dier , Middelburg I	2.5 (2) kliniek ekliniek Dierehosp	2.0 (1)		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
Piet Retief, Beef: 3 Gauteng Bronkhorsts Beef: 3	2.0 (4) a brootvlei Diere Longtom Dier , Middelburg I Pets Vet Hosp spruit, Kerkstr	2.5 (2) kliniek ekliniek Dierehosp oital	2.0 (1) iitaal		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
Reef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3 Gauteng Bronkhorsts Beef: 3 Hammanski	2.0 (4) a brootvlei Diere Longtom Dier , Middelburg I Pets Vet Hosp	2.5 (2) kliniek ekliniek Dierehosp oital	2.0 (1) iitaal		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3 Gauteng Bronkhorsts Beef: 3 Hammanski	2.0 (4) a brootvlei Diere Longtom Dier , Middelburg I Pets Vet Hosp spruit, Kerkstr	2.5 (2) kliniek ekliniek Dierehosp oital	2.0 (1) iitaal		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		
reported Beef Dairy Mpumalang Grootvlei, G Beef: 2 Lydenburg, Beef: 2 Middelburg Beef: 1 Piet Retief, Beef: 3 Gauteng Bronkhorsts Beef: 3 Hammanski Beef: 2 Limpopo	2.0 (4) a brootvlei Diere Longtom Dier , Middelburg I Pets Vet Hosp spruit, Kerkstr	2.5 (2) kliniek ekliniek Dierehosp ital raat Diere	2.0 (1) itaal kliniek nic		2.4 (7) 2.0	2.2 (9)	en and 3 =	more than	10 cases		

Beef: 2
North West
Christiana, Christiana Dierehospitaal
Beef: 1
Lichtenburg, Dr CM Kruger-Rall
Beef: 1
Potchefstroom, Morvet
Beef: 3
Free State
Bloemfontein, Dr Stephan Wessels
Beef: 3
Bultfontein, Greylingsrust Dierespreekkamer
Beef: 3
Clocolan, Clocolan Dierekliniek
Beef: 2
Harrismith, Harrismith Dierehospitaal
Beef: 2
Kroonstad, Kroonstad Dierehospitaal
Dairy: 2
Reitz, Riemland Dierehospitaal
Beef: 2
Viljoenskroon, Viljoenskroon Dierekliniek
Beef: 3
Villiers, Wilgepoort Dierekliniek Vennootskap
Beef: 2
Kwazulu-Natal
Bergville, Bergville Veterinary Clinic
Beef: 3
Bergville, Tugela Vet Clinic
Beef: 3
Camperdown, Camperdown Vet Clinic
Beef: 2
Dundee, Endumeni Herd health
Beef: 3, Dairy: 3
Eshowe, Eshowe Veterinary Hospital
Beef: 2
Estcourt, Estcourt Vet Clinic
Beef: 1
Mtubatuba, Mtubatuba Animal Clinic
Beef: 2
Newcastle, Ncanduvet Newcastle
Beef: 3
Pongola, Pongola Animal Clinic
Beef: 1

Blue tongue									
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	2.3 (3)		3.0 (3)	2.5 (13)	2.0 (1)	3.0 (2)	1.5 (6)	

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

reported	oortance scale: 1	= one case, 2	= more than one cas	se but less than	ten and $3 = 1$	nore than 10 cas	ies
Sheep	2.0 (3)	2.3 (3)		.5 2.0 (1)	3.0 (2)	1.5 (6)	
Mpumalan							
	Grootvlei Diere	kliniek					
Sheep: 2							
	, Longtom Diei	rekliniek					
Sheep: 2							
Standertor	n, Econovet						
Sheep: 2							
Gauteng							
Bapsfontei	n, Bapsfontein	Dierehospita	al				
Sheep: 2							
Bronkhorst	tspruit, Kerkstı	raat Diereklini	iek				
Sheep: 3							
Pretoria, O	nderstepoort A	Academic Hos	pital and Production	on Animal Clin	ic		
Sheep: 2							
Four cases							
North Wes	t						
Brits, Brits	Dierekliniek						
Sheep: 3							
Leeudoring	gstad, Leeudor	ingstad Dierel	kliniek				
Sheep: 3							
First time se	en in Dorpers						
Ventersdor	rp, Ventersdor	Dierekliniek					
Sheep: 3	-,						
Free State							
Bloemfonte	ein, Dr Stephai	n Wessels					
Sheep: 3							
	n, Greylingsrus	t Dierespreek	kamer				
Sheep: 3	<i>.</i>	•					
	Oosvrystaat D	iere Produkte					
Sheep: 3							
-	, Harrismith Di	erehospitaal					
Sheep: 2	,						
•	Hoopstad Dier	ekliniek					
Sheep: 3							
	Kroonstad Die	erehospitaal					
Sheep: 3							
	, Ladybrand Di	erekliniek					
Sheep: 2	,,						
	mel Veterinary	/ Clinic					
Sheep: 2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	nland Dierehos	pitaal					
Sheep: 2		p					
-	oon, Viljoenskr	oon Diereklini	iek				
Sheep: 3	Jon, Thijochiski	Jon Biolokilli					
	lgepoort Diere	kliniek Venno	otskan				
Sheep: 2	igopoort biele	MINION VEHILL	- Lonup				
-	de Dierehospit	aal					
Shoon: 2	ae Dierenospit	uuI					

Sheep: 3

Sheep: 1

Wesselsbron, Wesselsbron Dierekliniek

Kwazulu-Na			•						
	Underberg Ve	terinary S	urgery						
Sheep: 2									
Eastern Cap									
	et, Graaff Rei	net Veteri	nary Clinic						
Sheep: 3									
	, Steynsburg D	Dierehospi	itaal						
Sheep: 3									
Western Ca									
Beaufort We	est, Beaufort I	Diereklinie	ek						
Sheep: 1									
Caledon, Ov	erberg Veteri	nary Hosp	ital						
Sheep: 2									
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 2									
Oudtshoorn	, Ostrimed								
Sheep: 1									
	Riversdal Dier	ekliniek							
Sheep: 1									
	ı, Swellendam	Dierehos	pitaal						
Sheep: 2	•		•						
Nagana									<u>^</u>
DDO\/TNCE	M	C	1:	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	rimbobo	West	State	Natal	Cape	Cape	Cape
Average						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			-,						
-						0.0 (1)			
Beef						2.0 (1)			
Kwazulu-Na	atal								
Mtubatuba,	Mtubatuba Ar	.:	i.						
Beef: 2		nımaı Ciin	IC						
		nimai Ciin	ic						
		nimai Ciin	ic						
	l Diseases	nimai Ciin	ic						
Venerea	l Diseases		ic						
Venerea			ic						^
Venerea	l Diseases								^
Venerea Actinoba	l Diseases cillus semin	is		North	Free	Kwazulu-	Fastern	Western	^ Northern
Venerea Actinoba	l Diseases	is		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Venerea Actinoba	l Diseases cillus semin	is			Free State		Eastern Cape	Western Cape	Northern Cape
Venerea Actinoba PROVINCE	Diseases cillus semin	is							
Venerea Actinoba	l Diseases cillus semin	is							
Venerea Actinobal PROVINCE Average	I Diseases cillus semin Mpumalanga 1.0 (1)	ois Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinobal PROVINCE Average Level of impo	Diseases cillus semin	ois Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinobal PROVINCE Average	I Diseases cillus semin Mpumalanga 1.0 (1)	ois Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinobal PROVINCE Average Level of impo	I Diseases cillus semin Mpumalanga 1.0 (1)	ois Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinoba PROVINCE Average Level of imporeported Beef	Diseases cillus semin Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	ois Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinoba PROVINCE Average Level of imporeported Beef Mpumalang	Diseases cillus semin Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1) a	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinoba PROVINCE Average Level of imporeported Beef Mpumalang Bethal, Beth	Diseases cillus semin Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1)	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinobat PROVINCE Average Level of imporeported Beef Mpumalang	Diseases cillus semin Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1) a	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape	Cape
Venerea Actinoba PROVINCE Average Level of imporeported Beef Mpumalang Bethal, Beth	I Diseases cillus semin Mpumalanga 1.0 (1) ortance scale: 1 1.0 (1) a nal Diereklinie	Gauteng = one case	Limpopo	West	State	Natal	Cape	Cape	Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North		Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
Average	2.3 (4)			2.0 (1)	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	2.3 (4)			2.0 (1)	2.2 (9)	1.0 (1)			
Mpumalang	ja –								
	regloed Veteri	nêre Spre	ekkamer						
Beef: 3									
	100iplaas Vete	rinêre Die	enste						
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 2									
Standerton	, Econovet								
Beef: 2									
North West		and D							
Beef: 2	stad, Leeudori	ingstad Di	егекипіек	•					
	bull jump fence	and infoc	od hard or	alv 3 hou	rc in hor	d conviced a	fow cows	Roth hulls or	farm now
	nancy rat dropp			ily 5 flou	15 111 1161	u, sei viceu a	IEW COWS.	DOUT DUIS OF	i iaiiii iiow
Free State	gridiney ruc dropp)Cu (0 30 /0	'•						
	in, Dr Stephan) Wessels							
Beef: 3	, 2. Себриа								
	ds with infected	bulls. 8 bu	Ils tested p	ositive in	new her	d after poor	conception	- Dealesville	area
	locolan Dierek		·			•	•		
Beef: 2									
Ficksburg, (Oosvrystaat Di	iere Produ	ıkte						
Beef: 1									
Hoopstad, I	Hoopstad Diere	ekliniek							
Beef: 3									
	Ladybrand Die	erekliniek							
Beef: 1									
	s Dierehospita	al							
Beef: 2	a ib								
Lack of biose		oon Dioro	klimiak						
Beef: 2	on, Viljoenskr	oon Diere	Kiiiiiek						
	gepoort Dierel	kliniak Va	nnootskar	•					
Beef: 3	gepoort Dierei	Killilek ve	шооськар	<u> </u>					
	shoek Dierepr	aktyk							
Beef: 3	Shock Dierepi	untyn							
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	С						
Beef: 1		, •	_						
Vibriosis									^

North Free Kwazu West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western

Cape

Cape

Northern

Cape

									•
Average	1.5 (2)			2.0 (1)	1.0 (1)	1.0 (2)	1.0 (1)	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	10 cases
Beef	1.5 (2)			2.0 (1)	1.0 (1)	1.0 (2)	1.0 (1)	2.0 (1)	
Beef: 1	looiplaas Vete								
Middelburg Beef: 2	, Middelburg I	Dierehosp	itaal						
North West									
	stad, Leeudori	ngstad Di	erekliniek	•					
Beef: 2	,								
Free State									
	in, Dr Stephan	Wessels							
Beef: 1									
Kwazulu-Na		ol'	_						
Beef: 1	ergville Veteri	nary Clini	<u> </u>						
	Underberg Ve	torinary S	urgery						
Beef: 1	Officer Derg Ve	cermary 5	urgery						
Eastern Cap	oe .								
-	n, Queenstowi	n Veterina	ry clinic						
Beef: 1	<u> </u>		-						
Western Ca	-								
	y, Malmesbury	Dierehos	pitaal						
Beef: 2									
Pizzle dis	ease								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0(1)		3.0 (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	10 cases
Sheep									3.0 (1)
Goat							1.0(1)		
Eastern Cap	e e								
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Northern Ca									
	Ivinia Veearts	kliniek							
Sheep: 3									
Bacteria	l Disease (other)							
Blackqua	rter								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)			2.0 (3)	2.0 (7)	1.7 (6)	1.0 (2)	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 1	10 cases
Beef	1.7 (3)			2.0 (3)	2.0 (7)	1.8 (4)	1.0 (2)		
Dairy						1.5 (2)		1.0(1)	
Mpumalang	а								
	nal Diereklinie	k							
Beef: 1									
Hendrina, M	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Standerton,	Econovet								
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 1	. "								
Blackleg/Qua		arabaanit							
Beef: 2	Klerksdorp Di	erenospic	ddi						
	stad, Leeudori	nastad Di	erekliniek						
Beef: 3	stau, Lecudoii	ngstau Di	CICKIIIICK						
Outbreaks on	3 farms								
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 2									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
	loopstad Diere	ekliniek							
Beef: 2	/		_1						
	Kroonstad Die	renospita	aı						
Beef: 2	land Dierehos	nitaal							
Beef: 2	iaila Dicicilos	pitaal							
	Freestate Smi	thfield SV							
Beef: 2									
4 animals die	d, Rouxville								
	n, Wesselsbro	n Dierekli	niek						
Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2	dumani Usud I	14k							
	dumeni Herd h	ieaith							
Beef: 1, Dairy	/: 1 stcourt Vet Clir	nic							
Beef: 2, Dairy									
	underberg Ve	terinary S	urgerv						
Beef: 2		-	g 1						
Eastern Cap	e								

	h, Hertzogbrug	g Dierekli	niek						
Beef: 1	n Ouganata.	. \/ata=!=							
Queenstowi Beef: 1	n, Queenstowi	n veterina	iry clinic						
Western Ca	no								
	pe Jerberg Diereh	osnitaal l	Darling						
Dairy: 1	jerberg bierer	iospitaai i	Janning						
Botulism									^
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)	3.0 (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 1	10 cases
Beef			1.0(1)	2.5 (2)		2.0(1)		2.0(1)	3.0 (1)
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 1									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 2									
Rustenburg	, Bergbos Dier	ekliniek							
Beef: 3									
Kwazulu-Na	ital								
	nowe Veterina	ry Hospit	al						
Beef: 2									
In feedlot									
Western Ca	_								
	h, Stellenbosc	h Animal	Hospital						
Beef: 2									
Northern Ca	•								
	pington Veea	tsenyklin	iek						
Beef: 3	ing a big role, bo	nnec							
Pulpy Kid		J11C3							^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		1.0 (1)	2.2 (6)		1.7 (6)	1.0 (3)	
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 1	10 cases
Beef							2.0 (1)		
Sheep		1.0 (1)		1.0 (1)	2.2 (6)		1.8 (4)	1.0 (2)	
					(0)				

Gauteng										
Bronkhorstspruit, Kerkstraat Dierekliniek										
Sheep: 1										
North West										
Christiana,	Christiana Die	rehospita	al							
Sheep: 1										
Free State										
Bloemfonte	in, Dr Stephan	Wessels								
Sheep: 3	· ·									
	o, Platkop Dier	ekliniek								
Sheep: 2	.,									
	loopstad Diere	ekliniek								
Sheep: 3	.oopotaa Dici									
•	Kroonstad Die	rehosnita	al							
Sheep: 2	iti oonstaa bic	ТСПООРІС								
•	gepoort Dierel	kliniek Ve	nnootskan)						
Sheep: 2	gepoort Dierei	MIIIICK VC	шоосэкар	<u>'</u>						
•	n, Wesselsbro	n Diarakli	niek							
Sheep: 1	ii, wesselsbio	II DICI CKII	IIICK							
Eastern Cap	10									
	et, Camdeboo	Votorina	ar Clinic							
	•	vetermai	y Cillic							
Sheep: 1, Go		- at Vatari	-am Clinic							
	et, Graaff Rei	let veteri	nary Cillic							
Sheep: 2	Deshous V	/-t!mam.	Climia							
	ast, Bosberg V	eterinary	Clinic							
Sheep: 2	C1	· · · · · · · · · · · · · · · · · · ·	1							
	, Steynsburg D	Dierenospi	itaal							
Beef: 2										
	Witelsbos Vete	erinary Co	nsulting R	ooms						
Sheep: 2										
Western Ca	-									
	iledon Dierekli	iniek								
Sheep: 1										
	y, Dr Otto Krie	k								
Goat: 1										
Oudtshoorn	, Ostrimed									
Sheep: 1										
Lamb dys	sentry								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average								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	
Sheep								1.0(1)		
Western Ca	pe									
	erberg Veteri	narv Hosp	ital							
Sheep: 1	consens recent	пат у 1100р								
энсер: 1										
Swelled I	nead diseas	е							^	

PROVINCE Average	Mpumalanga	Gauteng 1.0 (2)	Limpopo	North West	Free State	Kwazulu-	Eastern	Western	Northern
Average	3.0 (1)	1.0 (2)			Juice	Natal	Cape	Cape	Cape
					2.0 (1)	1.0 (1)		2.0 (1)	3.0 (1)
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef	3.0(1)					1.0(1)			
Sheep	. ,	1.0 (1)			2.0 (1)			2.0 (1)	3.0 (1)
Goat		1.0(1)							
Beef: 3 Gauteng Bronkhorsts Sheep: 1, Goo Free State Villiers, Wilg Sheep: 2 Kwazulu-Na Bergville, Be Beef: 1 Western Cap Beaufort We Sheep: 2	Pets Vet Hosp spruit, Kerkstr at: 1 gepoort Dierel stal ergville Veteri pe est, Beaufort \	aat Dierel kliniek Ve nary Clini West State	nnootskap c						
Northern Ca	with severe ble pe Kimberley Die		sub-cutanec	ous swelli	ng in bri	sket area			
Red gut (cattle)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Red gut (cattle)										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)			1.0 (2)	1.0 (1)	2.0 (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 1	.0 cases	
Beef		1.0(1)			1.0 (2)			2.0 (1)		
Dairy						1.0 (1)	2.0(1)	2.0 (1)		

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1
Free State

Kroonstad, Kroonstad Dierehospitaal

	mel Veterinary	Clinic							
Beef: 1									
Kwazulu-Na									
•	dumeni Herd h	nealth							
Dairy: 1									
Eastern Cap									
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2									
Western Ca	pe y, Malmesbury	Dioroboo	mitaal						
Beef: 2, Dair		Dieleilos	рісааі						
DCCI. 2, Dail	y. 2								
Blood gu	t (Sheep)								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northerr Cape
Average					1.7 (3)			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
Sheep					1.7 (3)			2.0 (1)	2.0 (1)
Bloemfonte Sheep: 1	in, Dr Stephan								
Bloemfonte Sheep: 1 Memel, Mer Sheep: 2 Villiers, Wil Sheep: 2 Western Ca Beaufort W Sheep: 2 Northern Ca Calvinia, Ca	nel Veterinary gepoort Dierel pe est, Beaufort I	Clinic kliniek Ve Diereklinic							
Sheep: 1 Memel, Mer Sheep: 2 Villiers, Wil Sheep: 2 Western Ca Beaufort W Sheep: 2 Northern Ca Calvinia, Ca Sheep: 2 Tetanus	mel Veterinary gepoort Dierel pe est, Beaufort I	Clinic kliniek Ve Diereklinic kliniek	ek	North	Free	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Bloemfonte Sheep: 1 Memel, Mer Sheep: 2 Villiers, Wil Sheep: 2 Western Ca Beaufort W Sheep: 2 Northern Ca Calvinia, Ca Sheep: 2	mel Veterinary gepoort Dierel pe est, Beaufort I ape Ilvinia Veearts	Clinic kliniek Ve Diereklinic kliniek	ek	North					
Bloemfonte Sheep: 1 Memel, Mer Sheep: 2 Villiers, Will Sheep: 2 Western Ca Beaufort W Sheep: 2 Northern Ca Calvinia, Ca Sheep: 2 Tetanus PROVINCE	mel Veterinary gepoort Dierel pe est, Beaufort I ape Ilvinia Veearts	Clinic diniek Ve Diereklinic kliniek Gauteng	Limpopo	North	1.0 (1)	Natal	1.0 (1)	1.0 (1)	Cape

Reitz, Riemland Dierehospitaal

Sheep: 1

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 1

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

Two weeks after tail docking

Brucella abortus										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (2)		2.0 (1)	3.0 (2)	2.8 (5)					

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

Beef	2.0 (2)		2.0 (1)	3.0 (2)	2.8 (5)
------	---------	--	---------	---------	---------

Mpumalanga

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 1

Middelburg, Middelburg Dierehospitaal

Beef: 3 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 2 North West

Christiana, Christiana Dierehospitaal

Beef: 3

Brucellosis, new farm, 24 out of 60 tested positive

Lichtenburg, Dr CM Kruger-Rall

Beef: 3 34 cattle

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Two new beef herds with positive animals. One new herd positive in Jagersfontein area.

Harrismith, Harrismith Dierehospitaal

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 3

Brucella ovis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average					2.3 (3)			1.0 (1)					
Level of imported													
Sheep					2.3 (3)			1.0 (1)					
Free State													
Clocolan, Cl	ocolan Dierek	liniek											
Sheep: 1													
	Freestate Smi	thfield SV											
Sheep: 3													
14 cases Spri	ngfontein gepoort Dierel	diniak Va											
Sheep: 3	gepoort Dierei	kiiniek ve	ппоотѕкар)									
Western Ca	ne												
	est, Beaufort \	Nest State	e Vet										
Sheep: 1	,												
Johne`s	disease								^				
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average					1.0 (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				
Sheep					1.0 (1)			1.0(1)					
Free State													
-	nekal Dierekli	niek											
Sheep: 1													
Western Ca		ocnitaal I)orling										
Sheep: 1	jerberg Diereh	iospitaal l	Jai iiiig										
Pseudom	onas								^				
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				

Beef					2.0						
Free State					(1)						
Vrede, Saulshoek Dierepraktyk											
Beef: 2											
Septicaemia											
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 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(2)		
Beef: 2 Pasteurella m Northern Ca Calvinia, Ca Sheep: 3		kliniek	iniek								
E. coli									<u>^</u>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (2)	2.0 (1)		2.3 (4)	2.5 (21)	3.0 (1)	1.5 (2)	1.0 (3)	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		
Beef	2.0 (1)	2.0 (1)		2.5 (2)	2.4 (7)	3.0 (1)		1.0 (2)			
Dairy					2.0						
					(1)						
Sheep	2.0 (1)			2.0 (2)	2.6		1.0 (1)	1.0 (1)	3.0 (1)		
Sheep Goat	2.0 (1)			2.0 (2)	2.6		1.0 (1) 2.0 (1)	1.0 (1)	3.0 (1)		

North West Brits, Brits Dierekliniek Sheep: 1 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 **Ventersdorp, Ventersdorp Dierekliniek** Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels** Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 3 **Dewetsdorp, Platkop Dierekliniek** Sheep: 3 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 2, Sheep: 2 Harrismith, Harrismith Dierehospitaal Sheep: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 3 Vrede, Saulshoek Dierepraktyk Beef: 2, Sheep: 3 Vrede, Vrede Dierehospitaal Sheep: 3 Diarrhoea Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Kwazulu-Natal **Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Sheep: 1 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Goat: 2 **Western Cape** Caledon, Overberg Veterinary Hospital Sheep: 1 **Oudtshoorn, Ostrimed** Beef: 1 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Northern Cape Upington, Upington Veeartsenykliniek** Sheep: 3

Larg outbreaks in lambs in Kenhardt, Brandvlei, Pofadder

Enzootic	Abortion								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		2.0 (1)			1.5 (2)	1.0 (1)					
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Sheep		2.0 (1)			1.5 (2)	1.0 (1)					
	·										
Sheep: 2 Wesselsbro	Ladybrand Die										
Sheep: 1 Kwazulu-Na Pietermarit Sheep: 1	ntal zburg, Veterin	ary House	e Hospital								
	philosis (Lu	mpy Wo	ol)						^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average				2.0 (1)							
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
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 :	10 cases		
reported Sheep		= one case	e, 2 = more	2.0 (1)		ut less than to	en and 3 =	more than :	10 cases		
reported Sheep North West Schweizer-I				2.0 (1)		ut less than to	en and 3 =	more than	10 cases		
reported Sheep North West Schweizer-I Sheep: 2		doorn Die		2.0 (1)		ut less than to	en and 3 =	more than :	10 cases		
reported Sheep North West Schweizer-I Sheep: 2 Intrauter	Reneke, Buffel	doorn Die	erekliniek S	2.0 (1)		Kwazulu-	Eastern Cape	western Cape	10 cases A Northern Cape		
reported Sheep North West Schweizer-I Sheep: 2 Intrauter	Reneke, Buffel	doorn Die	erekliniek S	2.0 (1) SR North	Free	Kwazulu-	Eastern	Western	^ Northern		
reported Sheep North West Schweizer-I Sheep: 2 Intrauter PROVINCE Average	Reneke, Buffel	doorn Die	erekliniek s	2.0 (1) SR North West	Free State 1.0 (1)	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		

Free State Vrede, Saul	shoek Dierepr	aktyk							
Sheep: 1									
Fusibacte	erium necro	phorum							^
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 (1)	
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)								
Dairy								1.0(1)	
Sheep	2.0 (1)				1.0 (1)				
Sheep: 1 Western Ca Stellenbosc Dairy: 1 Other	pe h, Stellenbosc	h Animal	Hospital						^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)		2.0 (1)	2.0 (3)		2.0 (1)		3.0 (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 (1)				2.0 (1)				
Dairy							2.0 (1)		
Sheep	2.0 (1)	2.0 (1)		2.0 (1)	2.0 (2)				3.0 (1)
Mpumalang Lydenburg, Beef: 2 Foot abscess Sheep: 2	a Longtom Dier	ekliniek							

Sheep: 2
North West

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 2

Two lambs with Klebsiella!

Free State

Smithfield, Freestate Smithfield SV

Beef: 2

Clostridial disease, Smithfield, animal died

Vrede, Saulshoek Dierepraktyk

Sheep: 3

P. multocida type E in rams that are conditioned for sale

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Coxiella burnetii - abortions

Eastern Cape

Somerset East, Bosberg Veterinary Clinic

Dairy: 2

Mycoplasma as a cause of abortion in last trimester heifers, PCR positive on placental sample

Northern Cape

Kimberley, Kimberley Dierekliniek

Sheep: 3

Pasteurella multocida

Protozoal diseases (other)

Coccidiosis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (5)	1.0 (1)	3.0 (1)	2.0 (2)	2.5 (4)		2.0 (3)	1.3 (3)	

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

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

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1, Sheep: 1

Nelspruit, Nelspruit Animal Hospital

Goat: 3

Standerton, Econovet

Beef: 2, Sheep: 2

Gauteng

Hammanskraal, Themba Animal Clinic

Goat: 1 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 3									
North West									
	Dierekliniek								
Sheep: 2	Dicickiiiick								
-	Klerksdorp Di	erehosnit	aal						
Sheep: 2	Rici Kadoi p Di	Ciciospic	uui						
Free State									
	in, Dr Stephan	Wessels							
Sheep: 3	iii, Di Stephan	Wessels							
	land Dierehos	nitaal							
Sheep: 2	iana Dierenos	pitaai							
	gepoort Dierel	rliniak Va	nnootskar	•					
Sheep: 3	gepoort Dierer	MIIIICK VC	шоосэкар	,					
	n, Wesselsbro	n Diarakli	niok						
Sheep: 2	ii, wesselsbio	ii Dielekii	IIIEK						
Eastern Cap	••••••••••••••••••••••••••••••••••••••								
	r Jane Pistoriu	ı.c							
Goat: 2	i Jane Pistoriu	.							
	et, Camdeboo	Votorina	ay Clinia						
Goat: 2	iet, Callideboo	veterma	y Cillic						
	act Backara V	otorinam.	Clinia						
Goat: 2	ast, Bosberg V	etermary	Cillic						
Western Ca	-	Diamahaa							
	y, Malmesbury	Dierenos	pitaai						
Dairy: 2	Divoradal Dian	aklimiak							
	Riversdal Dier	ekiiiiek							
Sheep: 1	la Challamhaaa	l. A							
	h, Stellenbosc	n Animai	Hospitai						
Sheep: 1									
•									
Cryptosp	oridium								_
Cryptosp	<i>oridium</i> Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Cryptosp		Gauteng 3.0 (2)	Limpopo						
PROVINCE Average	Mpumalanga	3.0 (2)		West	2.6 (9)	Natal 2.0 (3)	Cape	2.0 (1)	Cape
PROVINCE Average Level of impositions in the second control of t	Mpumalanga 2.3 (3)	3.0 (2)		West	2.6 (9)	Natal 2.0 (3)	Cape	2.0 (1)	
PROVINCE Average Level of imporeported	Mpumalanga 2.3 (3) ortance scale: 1	3.0 (2) = one case		West	2.6 (9) see case b	Natal 2.0 (3) out less than t	Cape	2.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy	Mpumalanga 2.3 (3) ortance scale: 1	3.0 (2) = one case		West	2.6 (9) see case b 2.3 (3) 2.0	Natal 2.0 (3) out less than t	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of impreported Beef Dairy Sheep Mpumalang	2.3 (3) ortance scale: 1 3.0 (1)	3.0 (2) = one case 3.0 (1)		West	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of impreported Beef Dairy Sheep Mpumalang Bethal, Betl	Mpumalanga 2.3 (3) ortance scale: 1 3.0 (1) 2.0 (2)	3.0 (2) = one case 3.0 (1)		West	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Bethal, Betl Sheep: 1	Mpumalanga 2.3 (3) ortance scale: 1 3.0 (1) 2.0 (2) partial Diereklinie	3.0 (2) = one case 3.0 (1) 3.0 (1)	e, 2 = more	west e than on	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Bethal, Betl Sheep: 1 Volksrust, C	Mpumalanga 2.3 (3) ortance scale: 1 3.0 (1) 2.0 (2) Ja hal Diereklinie Cape Cross Voll	3.0 (2) = one case 3.0 (1) 3.0 (1)	e, 2 = more	west e than on	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Mpumalang Bethal, Beth Sheep: 1 Volksrust, C Beef: 3, Shee	Mpumalanga 2.3 (3) ortance scale: 1 3.0 (1) 2.0 (2) Ja hal Diereklinie Cape Cross Voll	3.0 (2) = one case 3.0 (1) 3.0 (1)	e, 2 = more	west e than on	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape
Cryptosp PROVINCE Average Level of impore ported Beef Dairy Sheep Mpumalang Bethal, Bethelicheep: 1 Volksrust, Celegist, Sheed Gauteng	Mpumalanga 2.3 (3) ortance scale: 1 3.0 (1) 2.0 (2) Ja hal Diereklinie Cape Cross Voll	3.0 (2) = one case 3.0 (1) 3.0 (1) k ksrust Die	e, 2 = more	west than on	2.6 (9) the case by 2.3 (3) 2.0 (1) 2.8	2.0 (3) out less than to 2.5 (2)	Cape	Cape 2.0 (1) more than	Cape

Beef: 3

Cryptosporidiosis is killing farmers financially. Halocur is out of stock!

Sheep: 3
Free State

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 3, Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2, Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Huge problem in lambs, beef and dairy calves younger than 2 weeks of age

Harrismith, Harrismith Dierehospitaal

Sheep: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 3

Vrede, Saulshoek Dierepraktyk

Sheep: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Newcastle, Ncanduvet Newcastle

Sheep: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Cryptosporidiosis still an issue but not as bad as last year

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2	<i>"</i>									
Fungal diseases										
Ringworm										
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)		1.5 (4)	1.0 (3)		3.0 (1)		
Level of impore	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	1.0 (1)	1.0(1)	2.0 (1)		1.5 (4)	1.0 (3)		3.0 (1)		
Mpumalang										
Ermelo, Mô	regloed Veteri	nêre Spre	ekkamer							
Beef: 1										

Beef: 1 **Gauten**o

Hammanskraal, Themba Animal Clinic

Beef: 1 **Limpopo**

Makhado, Blouberg Dierekliniek

Beef: 2
Free State

Bloemfontein, Dr Stephan Wessels

DCCI. I									
	Kroonstad Die	rehospita	al						
Beef: 2									
Vrede, Saul	shoek Dierepr	aktyk							
Beef: 2									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
Mtubatuba,	Mtubatuba Aı	nimal Clin	ic						
Beef: 1									
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 1									
Western Ca	pe								
Stellenboso	h, Stellenbosc	h Animal	Hospital						
Beef: 3									
Viral Dis	eases (oth	er)							
BMC (sno	otsiekte)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
							•	•	•
Average	1.0 (2)		1.5 (2)	1.3 (3)	1.3 (3)		1.3 (3)	2.0 (1)	1.0 (1)
Level of impreported	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 (2)		1.5 (2)	1.3 (3)	1.3 (3)		1.3 (3)		1.0 (1)
Dairy								2.0(1)	
Mpumalang								210 (1)	
	, Middelburg	Diorobocn	itaal						
Beef: 1	, Middelburg	Diei eilosp	ıtaaı						
Standerton	Fconovet								
Beef: 1	, Econovec								
Limpopo									
	Kranskop Die	rekliniek							
Beef: 1	Krunskop Biel	CKIIIICK							
	vildebeest associ	ated snotsi	ekte virus						
	Vaalwater Die								
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 1									
	Klerksdorp Di	ierehospit	aal						
Beef: 1									
	p, Ventersdorp	Diereklin	iek						
Beef: 2									
Free State									
	in, Dr Stephar	Wessels							
	, 300p.ia.								

Beef: 1

Beef: 1	. Diation Dian	مادانساماد							
Dewetsaor Beef: 1	o, Platkop Dier	екипіек							
Suspect, wait	ting for laborator	ry results							
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Eastern Cap	oe e								
Alexandria,	Alexandria Pla	atteland S	Spreekkam	er					
Beef: 1									
	h, Hertzogbrug	g Diereklii	niek						
Beef: 1									
	ı, Stutterheim	Veterinar	y Clinic						
Beef: 2									
	Komga district.	Animals in	close conta	ct with W	/ildebees	st			
Western Ca									
	orge Animal H	ospital							
Dairy: 2	- m-a								
Northern Ca		ua Diaval-l	linials						
Postmasbu i Beef: 1	rg, Postmasbu	rg Diereki	іпіек						
Deer. I									
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)			3.0 (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			2.0 (1)			3.0 (1)		1.0(1)	
Limpopo							_		
	Pietersburg V	eterinary	Clinic						
Beef: 2		,							
Kwazulu-Na	atal								
Pietermarit	zburg, Veterin	ary House	e Hospital						
Beef: 3									
Western Ca	ре								
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
IBR (Infe	ectious bovi	ne rhino	tracheit	is)					_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)	3.0 (1)	3.0 (1)	3.0 (1)		3.0 (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									

Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 2		,							
North West									
Leeudoring	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3	•								
Free State									
Viljoenskro	on, Viljoenskr	oon Diere	kliniek						
Beef: 3									
Kwazulu-Na									
	zburg, Veterin	ary House	e Hospital						
Beef: 3									
Western Ca		l. A							
	h, Stellenbosc	n Animai	Hospitai						
Beef: 3									
BRSV (Bo	vine respir	atory sy	ncytial v	irus)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)		1.0 (1)	
reported Beef	ortance scale: 1					2.0 (1)			
Dairy								1.0(1)	
Kwazulu-Na	ıtal								
Pietermarit	zburg, Veterin	ary House	e Hospital						
Beef: 2									
Western Ca									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
PI3									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average						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
Beef						3.0 (1)			
Kwazulu-Na	ıtal								
	zburg, Veterin	ary House	Hospital						
	Bovine Leu	cosis (El	BL)						^
	Mpumalanga			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
								-	_

Average					1.0 (1)	1.0 (1)	2.0 (1)	2.0 (2)	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)			1.0(1)
					1.0	110 (1)			110 (1)
Dairy					(1)		2.0 (1)	2.0 (2)	
Free State									
	ocolan Dierek	liniek							
Dairy: 1	- L - I								
Kwazulu-Na		torinam, C	`a.o.m.						
Beef: 1	Underberg Ve	terinary s	urgery						
Eastern Cap	16								
	ast, Bosberg V	eterinary	Clinic						
Dairy: 2		, , , ,							
Western Ca	ре								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Dairy: 2									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 2									
Northern Ca									
Beef: 1	Kimberley Die	rekiiniek							
Jaagsiekt	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo						
Average	Mpumalanga ortance scale: 1			West	1.0 (1)	Natal	Cape	Cape	Cape
Average Level of impo				West	1.0 (1)	Natal	Cape	Cape	Cape
Average Level of imporeported Sheep Free State		= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Free State Smithfield, Sheep: 1	ortance scale: 1	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Free State Smithfield,	ortance scale: 1	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Free State Smithfield, Sheep: 1	ortance scale: 1	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Free State Smithfield, Sheep: 1 Bethulie Orf	ortance scale: 1	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	Cape	Cape
Average Level of impore reported Sheep Free State Smithfield, Sheep: 1 Bethulie Orf	ortance scale: 1 Freestate Smi	= one case	e, 2 = more	than one	1.0 (1) e case b 1.0 (1) Free State	Natal ut less than to	Cape en and 3 =	more than :	Cape 10 cases A Northern

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

Level of im reported	portance scale: 1 = one case, 2 =	= more than one case I	out less than ten and 3 = m	ore than 10 cases
		2.2 (2) 2.1		
Sheep		2.3 (3) (9)	1.5 (2) 1.7 (3)	3.0 (1)
Goat	2.0 (1) 2.0 (1)	2.0 (2)	1.5 (2)	2.0 (1)
Mpumalan	_			
Lydenburg	y, Longtom Dierekliniek			
Goat: 2				
Gauteng				
Bronkhors	tspruit, Kerkstraat Diereklini	ek		
Goat: 2				
North Wes	st			
Christiana	, Christiana Dierehospitaal			
Sheep: 2				
Klerksdor	o, Klerksdorp Dierehospitaal			
Goat: 2				
Potchefstr	oom, Morvet			
Sheep: 3				
Ventersdo	rp, Ventersdorp Dierekliniek			
Sheep: 2, G	ioat: 2			
Free State				
Dewetsdo	rp, Platkop Dierekliniek			
Sheep: 3				
Hoopstad,	Hoopstad Dierekliniek			
Sheep: 2				
Kroonstad	, Kroonstad Dierehospitaal			
Sheep: 2				
Ladybrand	l, Ladybrand Dierekliniek			
Sheep: 1				
Parys, Par	ys Dierehospitaal			
Sheep: 2				
Viljoenskr	oon, Viljoenskroon Diereklini	ek		
Sheep: 2				
Villiers, W	ilgepoort Dierekliniek Vennoo	otskap		
Sheep: 3				
Vrede, Sau	ılshoek Dierepraktyk			
Sheep: 2				
Wesselsbr	on, Wesselsbron Dierekliniek			
Sheep: 2				
Kwazulu-N	Natal			
Dundee, E	ndumeni Herd health			
Sheep: 1				
Underberg	, Underberg Veterinary Surge	ery		
Sheep: 2				
Eastern Ca	ре			
Aliwal Nor	th, Hertzogbrug Dierekliniek			
Sheep: 1				
· · · · · · · · · · · · · · · · · · ·	inet, Camdeboo Veterinary Cli	inic		
Sheep: 1, G				
	ay, Cape Cross Veterinary Hos	spital		
Sheep: 3	•			
	Hitophago Diorohognitaal			

Uitenhage, Uitenhage Dierehospitaal Goat: 1

Western Ca	•								
	orge Animal Ho	ospital							
Sheep: 3									
Northern Ca									
	rg, Postmasbu	rg Dierek	liniek						
Goat: 2									
Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)		1.3 (4)	1.6 (5)	1.0 (1)	1.8 (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
Beef			1.0 (1)		1.3 (3)	1.6 (5)		1.7 (3)	
Dairy					1.0 (1)			2.0 (1)	
Sheep							1.0(1)		
Goat			1.0(1)				()		
			1.0 (1)						
Limpopo	Pietersburg V	/otorinarı	Clinia						
Beef: 1, Goat		etermary	CIIIIC						
Free State									
	o, Platkop Dier	ekliniek							
Beef: 1	,								
Senekal, Se	nekal Dierekli	niek							
Dairy: 1									
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Kwazulu-Na			_						
Beef: 2	ergville Veteri	nary Ciini	С						
	howe Veterina	ry Hosnit	 al						
Beef: 3	nowe veterina	ily Hospic	<u>uı</u>						
	stcourt Vet Clir	nic							
Beef: 1									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 1									
	Ncanduvet Ne	wcastle							
Beef: 1									
Eastern Cap									
_	n, Queenstowi	n Veterina	ry clinic						
Sheep: 1									
Western Ca	•	ocnital							
Beef: 2	orge Animal Ho	ospitai							

	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	/: 2 h, Stellenbosc	h Animal	Hoenital						
Beef: 1	n, stenenbose	ii Aiiiiidi	Поэрісаі						
Rota viru	S								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (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	3.0 (1)							•	
Dairy							2.0 (1)		
Mpumalang Volksrust, C Beef: 3 Eastern Cap	Cape Cross Vol	ksrust Die	erehospita	al					
	Riverview Tra	ding Vet	Consulting	Service	es				
Dairy: 2		_	_						· ·
Poisonin	gs (Plant)	and Fu	ngal						
Cardiac g	lycoside po	isoning							^
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)	
Western Ca									
	est, Beaufort \	West State	e Vet						
Sheep: 2 Typical krimp	siekte symptom	s, could be	krulblaar tı	ulp.					
Cestrum	, ,	,							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)		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					1.5 (2)		2.0 (1)		
Free State									
	in, Dr Stephar	Wessels							
Beef: 1									
	ocolan Dierek	liniek							
Beef: 2									
Eastern Cap	oe Uitenhage Die	robocnita	.al						
Beef: 2	Oiteillage Die	enospita	aı						
	<i>um</i> poisonir	ng							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.5 (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
Dairy							2.0(1)		
Sheep							3.0 (1)		
Eastern Cap	ne .								
	y, Cape Cross \	Veterinary	/ Hospital						
Dairy: 2, She									
Facial ec	zema								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)		3.0 (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)		3.0 (1)	2.0 (1)	
Free State									
	land Dierehos	pitaal							
Sheep: 2	shook Diawa	a lebel -							
Beef: 2	shoek Dierepr	актук							
Eastern Cap	ne .								
	, Steynsburg [Dierehosn	itaal						
Sheep: 3	, ,								
Western Ca	ре								
Heidelberg Sheep: 2	(WC), Heidelb	erg Diere	kliniek						

Geeldikk	p/Dikoor								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.0 (1)		1.8 (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
Sheep	2.0 (1)		1.0 (1)		1.8 (4)				
Sheep: 1 Free State Harrismith, Sheep: 1 Kroonstad, Sheep: 2 Villiers, Wild Sheep: 2 Wesselsbroom Sheep: 2 Gousiekt	Econovet Pietersburg V Harrismith Die Kroonstad Die gepoort Dierel n, Wesselsbro	erehospita rehospita kliniek Ve n Dierekli	aal al nnootskap niek Limpopo	North	Free	Kwazulu- Natal	Eastern Cape	Western	Northern Cape
Average			2.0 (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
Level of imported Goat	ortance scale: 1	= one case		than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Goat	ortance scale: 1	= one case	2.0 (1)	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Goat Limpopo Modimolle,	Kranskop Dier			than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Goat Limpopo Modimolle, Goat: 2	Kranskop Dier			than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Goat Limpopo Modimolle, Goat: 2	Kranskop Dier ats died			than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Goat Limpopo Modimolle, Goat: 2 Four Boer goa Kikuyu po	Kranskop Dier ats died	ekliniek	2.0 (1)	North West	Free State	Kwazulu- Natal	Eastern Cape	western Cape	10 cases Northern Cape

reported		0110 000							
Beef	3.0 (1)								
Dairy							2.0 (1)		
Mpumalang									
Piet Retief, Beef: 3	Pets Vet Hosp	ital							
Eastern Cap	e e								
	Alexandria Pla	atteland S	preekkam	er					
Dairy: 2									
Lantana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.7 (3)			
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 :	10 cases
Beef						2.0 (2)			
Dairy						1.0 (1)			
Kwazulu-Na	atal							-	
	ergville Veteri	nary Clini	С						
Beef: 2	dumeni Herd I	nealth							
Beef: 2, Dairy		Carcii							
Lupine Po	oisoning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than te	en and 3 =	more than :	10 cases
Beef								3.0 (1)	
Beef Sheep								3.0 (1) 1.0 (1)	
Sheep Western Ca								` /	
Sheep Western Ca Caledon, Ov	pe verberg Veteri	nary Hosp	ital					` /	
Sheep Western Ca Caledon, Ov Beef: 3	verberg Veteri							` /	
Sheep Western Ca Caledon, Ov Beef: 3								` /	
Sheep Western Ca Caledon, Ov Beef: 3 Darling, Tyg Sheep: 1	verberg Veteri	ospitaal [Darling					` /	_

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

Average								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)	
Western Ca	-								
Oudtshoorn Beef: 1	, Ostrimed								
Suspected									
Nitrate p	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
Sheep					1.0 (1)				
Free State									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
ооорт <u>г</u>									
	cid poisonir	ng							^
Prussic a	cid poisonir		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Prussic a			Limpopo						
PROVINCE Average		Gauteng		West	State	Natal	2.0 (1)	3.0 (1)	Cape
PROVINCE Average Level of impo	Mpumalanga	Gauteng		West	State	Natal	2.0 (1)	Cape 3.0 (1) more than	Cape
PROVINCE Average Level of imporeported	Mpumalanga ortance scale: 1	Gauteng		West	State	Natal	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ad PROVINCE Average Level of imporeported Sheep Eastern Cap Steynsburg, Sheep: 2	Mpumalanga ortance scale: 1 oe , Steynsburg D	Gauteng = one case	e, 2 = more	West	State	Natal	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ac PROVINCE Average Level of imporeported Sheep Eastern Cap Steynsburg, Sheep: 2 Western Ca	Mpumalanga ortance scale: 1 oe , Steynsburg D	Gauteng = one case	e, 2 = more	West	State	Natal	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ad PROVINCE Average Level of imporeported Sheep Eastern Cap Steynsburg, Sheep: 2 Western Ca Piketberg, F	Mpumalanga ortance scale: 1 oe , Steynsburg D	Gauteng = one case	e, 2 = more	West	State	Natal	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ac PROVINCE Average Level of imporeported Sheep Eastern Cap Steynsburg, Sheep: 2 Western Ca	Mpumalanga ortance scale: 1 oe , Steynsburg Depe	Gauteng = one case	e, 2 = more	West	State	Natal	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ad PROVINCE Average Level of imporreported Sheep Eastern Cap Steynsburg, Sheep: 2 Western Ca Piketberg, F Sheep: 3 Tulip Pois	Mpumalanga ortance scale: 1 oe , Steynsburg Depe	Gauteng = one case Dierehospi ehospitaa	e, 2 = more	West	State	Natal ut less than t	2.0 (1) en and 3 =	Cape 3.0 (1) more than	Cape
Prussic ad PROVINCE Average Level of imporreported Sheep Eastern Cap Steynsburg, Sheep: 2 Western Ca Piketberg, F Sheep: 3 Tulip Pois	Mpumalanga ortance scale: 1 oe , Steynsburg Dependence perivation of the content of the conten	Gauteng = one case Dierehospi ehospitaa	e, 2 = more	West than one	Free State	Natal ut less than t	2.0 (1) en and 3 = 2.0 (1) Eastern	3.0 (1) more than 3.0 (1) Western	Cape 10 cases A Northern

					_				
Beef				3.0 (1)				_	
Dairy							3.0 (1)		
Sheep					3.0 (1)		3.0 (1)		
North West									
	a Dierekliniek								
Beef: 3 Free State									
	on, Viljoenskro	on Dierel	diniek						
Sheep: 3	on, ongoenem	JOIN 210101							
Eastern Cap	ре								
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3, She									
also in spring	buck in a small	camp							
Vermeers	siekte (<i>Gaig</i>	<i>eria</i> spp	.)						-
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
					(1)				
	ortance scale: 1	= one case	e, 2 = more	than on	<u> </u>	ut less than t	en and 3 =	more than	10 cases
Level of impores	ortance scale: 1	= one case	e, 2 = more	than on	<u> </u>	ut less than t	en and 3 =	more than	10 cases
reported Sheep	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 Sheep Free State Vrede, Vred	ortance scale: 1		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Sheep Free State Vrede, Vred			e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Sheep Free State Vrede, Vred Sheep: 1	le Dierehospita		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Free State Vrede, Vred Sheep: 1 Mycotoxi	le Dierehospita	aal		North West	1.0 (1)	Kwazulu-	en and 3 = Eastern Cape	more than Western Cape	10 cases Northern Cape
Free State Vrede, Vred Sheep: 1 Mycotoxi PROVINCE	le Dierehospita	aal		North	1.0 (1)	Kwazulu-	Eastern	Western	Northern
Free State Free State Free State Frede, Vred Sheep: 1 Mycotoxi PROVINCE Average Level of imposite to the province of the p	le Dierehospita	aal Gauteng	Limpopo	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2)	Northern Cape
Free State Vrede, Vred Sheep: 1 Mycotoxi PROVINCE Average Level of imporeported	le Dierehospita cosis Mpumalanga	aal Gauteng	Limpopo	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2)	Northerr Cape
Free State Vrede, Vred Sheep: 1 Mycotoxi PROVINCE	le Dierehospita cosis Mpumalanga	aal Gauteng	Limpopo	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2) more than	Northerr Cape
Free State Free State Free State Frede, Vred Sheep: 1 Mycotoxi PROVINCE Average Level of impore Freported Beef Dairy	le Dierehospita cosis Mpumalanga ortance scale: 1	aal Gauteng	Limpopo	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2) more than 2.0 (1)	Northeri Cape
Free State Free State Free State Frede, Vred Sheep: 1 Mycotoxi PROVINCE Average Level of impore ported Beef Dairy Western Ca Malmesbury	le Dierehospita cosis Mpumalanga ortance scale: 1 pe y, Malmesbury	Gauteng = one case	Limpopo e, 2 = more	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2) more than 2.0 (1)	Northerr Cape
Free State Vrede, Vred Sheep: 1 Mycotoxi PROVINCE Average Level of imported Beef Dairy Western Ca	le Dierehospita cosis Mpumalanga ortance scale: 1 pe y, Malmesbury	Gauteng = one case	Limpopo e, 2 = more	North West	e case b	Kwazulu- Natal	Eastern Cape	Western Cape 2.0 (2) more than 2.0 (1)	Northeri Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (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 1	10 cases
Beef		2.0 (1)							
Sheep								1.0(1)	
Gauteng									
Beef: 2	raal, Themba A	Animal Cli	nic						
Western Cap	pe Jerberg Diereh	ocnitaal [)arling						
Sheep: 1 Photosensitivi		iospitaai i	zarinig						
Poisonin	gs								
Water co	ntamination	1							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						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)			
Kwazulu-Na	ıtal					, , ,			
	zburg, Veterin	ary House	Hospital						
Beef: 1									
Urea Pois	oning								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				1.8 (4)		3.0 (2)		
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)				1.0 (1)				
							3.0 (1)		
Dairy							3.0 (1)		
Dairy Sheep					2.0 (3)		3.0 (1)		

	rootvlei Diere	kliniek							
Beef: 2									
Free State									
	ocolan Dierek	liniek							
Beef: 1									
	Rowelsfonteir	ı veearts S	Spreekkan	ner					
Sheep: 2									
Reitz, Riem	land Dierehos	pitaal							
Sheep: 1									
Vrede, Saul	shoek Dierepr	aktyk							
Sheep: 3									
Eastern Cap	e								
Alexandria,	Riverview Tra	ding Vet (Consulting	Service	es				
Dairy: 3									
-	, Steynsburg [Dierehospi	taal						
Sheep: 3									
Snake Bit	ro.								_
Shake bit	i.C								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (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 t	en and 3 =	more than	10 cases
Beef	1.0 (1)				2.0 (1)				
Dairy				2.0(1)					
Mpumalang	a								
	looiplaas Vete	rinêre Die	enste						
Beef: 1									
North West									
Brits, Brits I	Dierekliniek								
Dairy: 2									
Free State									
	loopstad Dier	ekliniek							
Beef: 2	ioopstau Dieli	CiviliiiCK							
Deer. 2									
Blue-gree	en algae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								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
Dairy								3.0 (1)	
Western Ca	pe								
	orge Animal H	ospital							
اعدان المحادث	go Aininai II	-spicul							

Dairy: 3									
Copper P	oisoning								_
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
Dairy								2.0(1)	
Sheep								, ,	2.0 (1)
Dairy: 2 Liver samples	y, Dr Otto Krie s that were sent	for analysi		excessive	ely high	levels of copp	er. Ongoin	g investigati	on will
eventually de Northern Ca	termine the cau	se of this s	ituation.						
De Aar, De	Aar Veterinary	Clinic							
Sheep: 2									
A few yellow	carcasses								
Chemical	products								_
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)				
Free State									
	nel Veterinary	Clinic							
Sheep: 2									
Macro N	utritional I	Problem	ıs						
Energy d	eficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (2)		2.0 (1)		2.0 (2)	3.0 (4)	2.3 (3)	3.0 (3)
		` '							<u> </u>
	ortance scale: 1		e, 2 = more	than on		ut less than t	en and 3 =	more than	, , ,
Level of impo	ortance scale: 1		e, 2 = more	than on 2.0 (1)	e case b	ut less than t	en and $3 = 3.0 (1)$		10 cases

Dairy		3.0 (1	1) 3.0 (1)
Sheep	2.0 (1)	3.0 (1	1) 2.0 (1) 3.0 (1)
Goat	2.0 (1)	3.0 (1	3.0 (1)
Gauteng			
Hammanskraal,	Themba Animal Clinic		
Sheep: 2, Goat: 2			
North West			
Christiana, Chri	stiana Dierehospitaal		
Beef: 2			
Kwazulu-Natal			
	Camperdown Vet Clinic		
Beef: 1			
	lerberg Veterinary Surgery		
Beef: 3			
Eastern Cape			
	eynsburg Dierehospitaal		
	Sheep: 3, Goat: 3		
Western Cape	-lus - alessus Di assale a suite al		
	almesbury Dierehospitaal		
Beef: 2, Dairy: 3,	Sneep: 2		
Northern Cape	lestmashura Dievokliniek		
Beef: 3, Sheep: 3	ostmasburg Dierekliniek		

beel: 3, Shee	ep: 3, Goat: 3								
Protein d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (3)				1.5 (2)	3.0 (4)	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	2.0 (1)	1.5 (2)	3.0 (1)	2.0 (1)	
Dairy			3.0 (1)	2.0 (1)	
Sheep	2.0(1)		3.0 (1)	2.0 (1)	
Goat	2.0(1)		3.0 (1)		

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

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

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Phosphat	te deficiency	у							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	2.0 (1)			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 (2)
Sheep			· · · · · · · · · · · · · · · · · · ·	, , ,			3.0 (1)		
Beef: 2 Eastern Cap Steynsburg, Sheep: 3 Northern Ca Kathu, Kath Beef: 2 Postmasbur Beef: 2	Christiana Die oe , Steynsburg D ape nu Dierekliniek rg, Postmasbu	Dierehosp	taal						
	deficiency Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0				
Average					(1)			2.7 (3)	3.0 (1)
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	` ` <i>`</i>	
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	` ` <i>`</i>	
_	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	
Level of impore reported Beef Dairy	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 2.0 (1)	, ,
Level of impore reported Beef Dairy Sheep Free State Ladybrand, Dairy: 1 Western Ca	Ladybrand Die pe y, Malmesbury y: 3, Sheep: 3	erekliniek		than on	e case b	ut less than t	en and 3 =	more than 2.0 (1) 3.0 (1)	10 cases

Micro Nu	ıtritional P	roblem	S						
Copper d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (2)		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						3.0 (1)			
Dairy						1.0(1)			
Sheep						-		1.7 (3)	
Beef: 3 Western Ca Caledon, Ca Sheep: 1 Caledon, Ov Sheep: 2 Stellenbosc Sheep: 2 Zinc defice	ledon Dierekli erberg Veteri h, Stellenbosc	niek nary Hosp h Animal I	ital Hospital	North	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						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
Beef						3.0 (1)			
Kwazulu-Na Underberg, Beef: 3	ital Underberg Ve	terinary S	Surgery						
Selenium	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)		1.0 (1)		3.0 (1)	3.0 (1)		2.0 (1)	2.0 (1)

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)		1.0(1)			3.0 (1)		2.0(1)	
Sheep					3.0 (1)				2.0 (1)
Mpumalang	а								
Standerton,	Econovet								
Beef: 3									
Limpopo	D		en .						
	Pietersburg V	eterinary	Clinic						
Beef: 1 Free State									
	Ladybrand Die	rokliniok							
Sheep: 3	Lauybranu Die	erekiiiiek							
Kwazulu-Na	ntal								
	Underberg Ve	terinary S	Surgery						
Beef: 3	3	-3a. y 0	5 1						
Western Ca	pe								
	, Groenkloof I	Diereklinie	ek						
Beef: 2									
Cattle bought	in from KZN								
Northern Ca									
	g, Postmasbu	rg Dierekl	liniek						
Sheep: 2									
Magnesiu	ım deficiend	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern
							-		Cape
Average		1.0 (1)					3.0 (1)		Саре
	ortance scale: 1	` ′	e, 2 = more	e than on	e case b	ut less than t			
Level of impo	ortance scale: 1	` ′	e, 2 = more	e than on	e case b	ut less than t			
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	e than on	e case b	ut less than t			
Level of imporeported Beef	ortance scale: 1	= one case	e, 2 = more	e than on	e case b	ut less than t	en and 3 =		
Level of imporeported Beef Sheep Gauteng	ortance scale: 1	= one case					en and $3 = \frac{3.0 (1)}{}$		
Level of impore reported Beef Sheep Gauteng Pretoria, Or Beef: 1	nderstepoort A	= one case					en and $3 = \frac{3.0 (1)}{}$		
Level of impore reported Beef Sheep Gauteng Pretoria, On Beef: 1 Eastern Cap	nderstepoort A	= one case 1.0 (1)	Hospital a				en and $3 = \frac{3.0 (1)}{}$		
Level of impore reported Beef Sheep Gauteng Pretoria, On Beef: 1 Eastern Cap	nderstepoort A	= one case 1.0 (1)	Hospital a				en and $3 = \frac{3.0 (1)}{}$		
Level of impore reported Beef Sheep Gauteng Pretoria, On Beef: 1 Eastern Cap Steynsburg, Sheep: 3	nderstepoort A	= one case 1.0 (1) cademic l	Hospital a				en and $3 = \frac{3.0 (1)}{}$		
Level of impore reported Beef Sheep Gauteng Pretoria, Or Beef: 1 Eastern Cap Steynsburg, Sheep: 3 Mangane	nderstepoort A ne , Steynsburg C	= one case 1.0 (1) cademic I	Hospital a			Animal Clinic	en and $3 = \frac{3.0 (1)}{}$		

PROVINCE Mpumalanga Gauteng Limpopo North State Mazulu-Rasten Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Mazulu-Rasten Cape North Cape 1.0 (1) Eastern Cape Cape Cape Cape 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape Cape 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case cape Cape Cape Cape Cape Cape Cape Cape C	•
Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Iodine deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (2)	•
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Nort Cape 1.0 (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State State Natal Natal Cape Cape Cape 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (2)	•
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 case reported Beef 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Average 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (1) 3.0 (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 case reported Beef 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratal Cape Cape Cape Average 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (1) 3.0 (1) 3.0 (1)	es
Reef 1.0 (1) Kwazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu-Natal Eastern Cape Cape Cape Average 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cas reported Beef 3.0 (1) 3.0 (1) 3.0 (1)	es
Wazulu-Natal Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo West State State Natal Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported 3.0 (1)	
Underberg, Underberg Veterinary Surgery Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State	
Beef: 1 Abortion Vitamin A deficiency PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (1) 3.0 (1)	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported 3.0 (1) 3	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape Average 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (1) 3.0 (1)	
Average Average Limpopo West State Natal Cape Cape Cape 3.0 (1) 3.0 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 case reported Beef 3.0 (1) 3.0 (1) 3.0 (1)	^
Level of importance scale: $1 = \text{one case}$, $2 = \text{more than one case but less than ten and } 3 = \text{more than } 10 \text{ cas reported}$ Beef $3.0 (1) (2)$ $3.0 (1) (1) (3)$	
reported 8eef 3.0 (1) 3.0 (1)	
Beef (1)	es
2.0	
Sheep 3.0 (1)	
North West	
Christiana, Christiana Dierehospitaal Beef: 3	
Free State	
Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 3, Sheep: 3	
Vitamin B 1 deficiency	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern 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

герогіей									
Sheep								2.0(1)	
Western Ca	pe								
	, Vredenburg	Dierehosr	itaal						
Sheep: 2	,	J.0. 000p	714441						
Vitamin B1 de	eficiency								
Multi-fac	ctorial Dise	ease Co	nditions	5					
Abortions	5								^
					_				
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
_	1.5.(2)	1.0 (1)	1.5.(2)	2.0.(1)	2.3	2.2.4	0.0 (1)	2.4.(0)	
Average	1.5 (2)	1.0 (1)	1.5 (2)	2.0(1)	(8)	2.3 (4)	3.0 (1)	2.4 (8)	
Level of impo	ortance scale: 1	= 000 030	2 – more	than on	e case h	ut less than t	en and 3 –	more than	10 cases
reported	ortance scale. 1	- One case	z, z – more	: triair Oir	e case b	ענ וכסס נוומוז נ	en and 5 –	more triair.	IU Cases
•					2.3				
Beef	1.5 (2)		2.0 (1)	2.0 (1)	(4)	2.3 (3)		1.5 (2)	
Dairy					(1)	2.0 (1)	3.0 (1)	2.8 (5)	
Dail y					2.2	2.0 (1)	3.0 (1)	2.0 (3)	
Sheep					2.3 (4)			2.0 (1)	
Goat		1.0(1)	1.0(1)						
Mpumalang	a								
	looiplaas Vete	rinêre Die	enste						
Beef: 2									
Volksrust, C	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 1			<u>-</u>						
Gauteng									
Pretoria, Or	nderstepoort A	cademic	Hospital a	nd Prod	uction /	Animal Clini	С		
Goat: 1									
Limpopo									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 2, Goat									
North West									
	Christiana Die	rehospita	al						
Beef: 2									
Free State									
	loopstad Dier	ekliniek							
Beef: 3, Shee									
	Ladybrand Die	erekliniek							
Sheep: 2	- D'	_							
	s Dierehospita	al							
Beef: 2	l l D:								
	land Dierehos	pitaal							
Beef: 2		-1::-1-37							
	gepoort Dierel	kiiniek Ve	nnootskap						
Beef: 2, Shee	:p: Z								

Wesselshro									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2		-							
Dundee, En	dumeni Herd l	nealth							
Dairy: 2									
	Ncanduvet Ne	wcastle							
Beef: 3	Treatina vec ite	TTCUSCIC							
	Underberg Ve	torinary 9	Surgery						
Beef: 2	Oliderberg ve	termary s	urgery						
Eastern Cap	••••••••••••••••••••••••••••••••••••••								
		/_+	Clinia						
	ast, Bosberg V	eterinary	Clinic						
Dairy: 3									
Western Ca	•								
	y, Dr Otto Krie	K							
Dairy: 3									
	y, Invitrotech								
Dairy: 3									
	y, Malmesbury	Dierehos	pitaal						
	y: 3, Sheep: 2								
Riversdale,	Riversdal Die	rekliniek							
Dairy: 2									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Swellendan	n, Swellendam	Dierehos	pitaal						
Dairy: 3	,								
- u y . · ·									
Stillbirth	S								^
									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo						
Average				West	State 2.7 (3) e case b	Natal 2.0 (2)	Cape	1.5 (2)	Cape
Average Level of impo	2.0 (2)			West	2.7 (3) e case b 3.0 (1)	Natal 2.0 (2)	Cape	1.5 (2)	Cape
Average Level of impore reported Beef Sheep	2.0 (2) ortance scale: 1			West	2.7 (3) e case b	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2)	Cape
Average Level of imporeported Beef	2.0 (2) ortance scale: 1 2.0 (1)			West	2.7 (3) e case b 3.0 (1) 2.5	Natal 2.0 (2) ut less than t	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of imporeported Beef Sheep Goat	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1)			West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of imporeported Beef Sheep Goat Mpumalang	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1)	= one case		West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of imporeported Beef Sheep Goat Mpumalang Lydenburg,	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Ja Longtom Dier	= one case		West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of imporeported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Shee	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Ja Longtom Dier	= one case		West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Free State	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Ja Longtom Dier ep: 2	= one case		West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Free State Hoopstad, H	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Longtom Dier ep: 2	= one case		West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Free State Hoopstad, H Beef: 3, Sheef	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Longtom Dier ep: 2 Hoopstad Diere ep: 3	= one case	e, 2 = more	West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Free State Hoopstad, H Beef: 3, Sheef Wesselsbro	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Longtom Dier ep: 2	= one case	e, 2 = more	West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Hoopstad, Hoopst	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Ja Longtom Dier ep: 2 Hoopstad Diere ep: 3 n, Wesselsbro	= one case	e, 2 = more	West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре
Average Level of impore reported Beef Sheep Goat Mpumalang Lydenburg, Beef: 2, Sheef Free State Hoopstad, H Beef: 3, Sheef Wesselsbro Sheep: 2 Kwazulu-Na	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1) 2.0 (1) Ja Longtom Dier ep: 2 Hoopstad Diere ep: 3 n, Wesselsbro	ekliniek ekliniek n Dierekli	e, 2 = more	West	2.7 (3) e case b 3.0 (1) 2.5	2.0 (2) ut less than t 2.0 (1)	Cape	1.5 (2) more than 1.0 (1)	Саре

	C	_
к	eef:	. ,

Pietermaritzburg, Veterinary House Hospital

Goat: 2

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 2

Negative for Chlamydia. Management/nutritional related

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Abscesses										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.7 (6)	2.0 (2)	1.0 (1)	2.5 (4)	2.0 (6)	1.3 (6)	1.5 (2)	2.3 (6)		

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

Beef	1.6 (5)	3.0 (1)		2.5 (2)	2.0 (3)	1.7 (3)		2.0 (1)	
Dairy						1.0(1)		2.3 (3)	
Sheep	2.0 (1)	1.0 (1)		2.5 (2)	2.0 (3)	1.0 (1)	2.0 (1)	2.5 (2)	
Goat			1.0(1)			1.0(1)	1.0(1)		

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Middelburg , Middelburg Dierehospitaal

Beef: 1

Nelspruit, Nelspruit Animal Hospital

Beef: 2 Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Goat: 1

North West Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2, Sheep: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2													
Hoopstad, I	Hoopstad Dier	ekliniek											
Beef: 3, Shee	ep: 3												
Villiers, Wil	gepoort Diere	kliniek Ve	nnootskap)									
Sheep: 2													
Wesselsbro	n, Wesselsbro	n Dierekli	niek										
Beef: 1, Shee													
Kwazulu-Na	Kwazulu-Natal Bergville Bergville Veterinary Clinic												
Bergville, Bergville Veterinary Clinic													
Beef: 2													
Pietermaritzburg, Veterinary House Hospital													
Beef: 2, Dairy: 1													
Pongola, Pongola Animal Clinic													
Beef: 1, Sheep: 1, Goat: 1													
Eastern Cape													
	Graaff-Reinet, Camdeboo Veterinary Clinic												
Goat: 1													
	et, Graaff Rei	net Veteri	nary Clinic	3									
Sheep: 2													
Western Ca	•												
•	erberg Veteri	nary Hosp	ital										
Sheep: 3													
	y, Invitrotech												
Dairy: 3													
	y, Malmesbury	Dierehos	pitaal										
	y: 3, Sheep: 2												
	Riversdal Die	rekliniek											
Riversdale, Riversdal Dierekliniek Dairy: 1													
	s in genera								^				
	s in genera								^				
Abscesse	s in genera Mpumalanga		Limpopo	North		Kwazulu-	Eastern	Western	^ Northern				
Abscesse			Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Abscesse			Limpopo 1.0 (2)						_				
Abscesse	Mpumalanga				State 2.4	Natal		Cape	_				
Abscesse PROVINCE Average Level of impositions	Mpumalanga	Gauteng	1.0 (2)	West	2.4 (5)	Natal 2.0 (2)	Саре	2.3 (3)	Cape				
Abscesse PROVINCE Average	Mpumalanga	Gauteng	1.0 (2)	West	2.4 (5)	Natal 2.0 (2)	Саре	2.3 (3)	Cape				
Abscesse PROVINCE Average Level of impositions	Mpumalanga	Gauteng	1.0 (2)	West	2.4 (5)	Natal 2.0 (2)	Саре	2.3 (3)	Cape				
Abscesse PROVINCE Average Level of impreported	Mpumalanga 1.3 (3) ortance scale: 1	Gauteng	1.0 (2) e, 2 = more	West	2.4 (5) e case b	2.0 (2) out less than t	Саре	Cape 2.3 (3) more than	Cape				
Abscesse PROVINCE Average Level of impreported Beef	Mpumalanga 1.3 (3) ortance scale: 1	Gauteng	1.0 (2) e, 2 = more	West	2.4 (5) e case b	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2)	Gauteng	1.0 (2) e, 2 = more	West	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep	1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)	Gauteng	1.0 (2) e, 2 = more 1.0 (1)	West	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)	Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1)	West	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)	Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1)	West	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang Hendrina, N Beef: 1, Shee	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1)	Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1) enste	West than on	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang Hendrina, N Beef: 1, Shee	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1) Ja Mooiplaas Vete	Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1) enste	West than on	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang Hendrina, N Beef: 1, Shee Volksrust, C	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1) Ja Mooiplaas Vete	Gauteng = one case	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1) enste	West than on	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				
Abscesse PROVINCE Average Level of impreported Beef Dairy Sheep Goat Mpumalang Hendrina, N Beef: 1, Sheet Volksrust, C Beef: 1 Limpopo	Mpumalanga 1.3 (3) ortance scale: 1 1.0 (2) 2.0 (1) Ja Mooiplaas Vete	Gauteng = one case erinêre Die	1.0 (2) e, 2 = more 1.0 (1) 1.0 (1) enste	West than on	2.4 (5) e case b 2.0 (2)	2.0 (2) out less than t	Саре	2.3 (3) more than 2.0 (1) 3.0 (1)	Cape				

Beef: 1	Distant 1		ol: ··						
	Pietersburg V	eterinary	Clinic						
Goat: 1									
Free State									
	, Greylingsrust	Dierespr	eekkamer						
Beef: 1, Shee									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	gepoort Dierel	kliniek Ve	nnootskap)					
Sheep: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Ticks									
Western Ca	ре								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
	y: 3, Sheep: 2		•						
Bladder s	stones								_
DDOVINCE	Mpumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	mpumaianga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
					1.0				
Average	3.0 (1)	1.0(1)					1.0(1)		
					(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									
	2.0.(4)	4.0 (4)			1.0				
Sheep	3.0 (1)	1.0 (1)			(1)				
_					(1)		1.0 (1)		
Goat							1.0 (1)		
Mpumalang	a								
Volksrust, C	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 3									
Gauteng									
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinic	C		
Sheep: 1									
Free State									
	Kroonstad Die	rehospita	al						
Sheep: 1									
	16								
			Clinic						
Eastern Cap		eterinarv							
Eastern Cap Somerset E	ast, Bosberg V	eterinary							
Eastern Cap Somerset E		eterinary							
Eastern Cap Somerset E	ast, Bosberg V	eterinary							^
Eastern Cap Somerset E Goat: 1	ast, Bosberg V	eterinary							^
Eastern Cap Somerset E Goat: 1 Blindness	ast, Bosberg V			North	Free	Kwazulu-	Eastern	Western	^ Northern
Eastern Cap Somerset E Goat: 1 Blindness	ast, Bosberg V			North West	Free State		Eastern Cape	Western Cape	^ Northern Cape

Average	1.0 (1)				1.9 (7)	2.0 (1)		1.0 (3)	2.0 (2)
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	l0 cases
Beef	1.0 (1)				2.0 (3)	2.0 (1)		1.0 (1)	
Dairy								1.0(2)	
Sheep					1.8 (4)				2.0 (1)
Goat									2.0(1)
Beef: 1 Free State	a lelspruit Anim locolan Dierek		ıl						
Beef: 1	ocolan bierek	iiiiick							
Hoopstad, Hoopstad, Hoopstad, Hoopstad, Hoopstad, Sheef: 1 Senekal, See Sheep: 1 Villiers, Williers, Willi	Ladybrand Die nekal Dierekli gepoort Dierek ep: 2 atal ergville Veteri pe verberg Veteri y, Malmesbury y: 1 ape rg, Postmasbu	erekliniek niek kliniek Ve nary Clini nary Hosp	nnootskap c oital spitaal						
Bloat									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (2)		1.0 (1)	2.2 (6)	3.0 (1)	1.0 (1)	2.0 (3)	
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 1	10 cases
Beef		2.0 (2)			1.8 (4)	3.0 (1)	1.0 (1)	2.0 (1)	
Dairy				1.0(1)				2.0 (2)	

Sheep					3.0 (2)							
Gauteng												
	raal, Themba <i>l</i>	Animal Cli	nic									
Beef: 1												
	nderstepoort A	cademic l	Hospital a	nd Prod	uction A	Animal Clinic	C					
Beef: 3												
North West												
	Reneke, Buffel	idoorn Die	rekliniek	SK								
Dairy: 1												
Free State	Crowlingsruck	h Diorosau	ookkamar									
Beef: 1	, Greylingsrust	Dierespr	ееккатег									
	ocolon Diorok	liniak										
Clocolan, Clocolan Dierekliniek												
Beef: 2												
Hoopstad, Hoopstad Dierekliniek												
Beef: 3, Sheep: 3												
Senekal, Senekal Dierekliniek Beef: 1												
	shoek Dierepr	aktvk										
Sheep: 3	onock Dicrept	uncyn										
Soya beans												
Kwazulu-Na	ntal											
	zburg, Veterin	arv House	Hospital									
Beef: 3		,	,									
Eastern Cap	e											
	Alexandria Pla	atteland S	preekkam	ner								
Beef: 1												
Western Ca	pe											
	verberg Veteri	nary Hosp	ital									
Dairy: 1												
Malmesbury	y, Malmesbury	Dierehos	pitaal									
Beef: 2, Dairy	y: 3											
Blood gu	t (sheep and	d goat)							<u>^</u>			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average		1.0 (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)										
Goat		1.0(1)										
Gauteng												
	raal, Themba <i>l</i> at: 1	Animal Cli	nic									
Blue udd	er								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			

									1
					1.8				
Average	2.0 (2)				(8)	1.0(1)		2.5 (4)	
					(0)				
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 :	LO cases
reported			,						
Dairy						1.0(1)			
Daily					1.0	1.0 (1)			
Sheep	2.0 (2)				1.8 (8)			2.5 (4)	
Mpumalang	ja –								
Lydenburg,	Longtom Dier	ekliniek							
Sheep: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 2									
Free State									
	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 2									
	Harrismith Di	erehospit	aal						
Sheep: 1									
	Kroonstad Die	rehospita	al						
Sheep: 2									
	nekal Dierekli	niek							
Sheep: 2									
	gepoort Diere	kliniek Ve	nnootskap)					
Sheep: 2									
	shoek Dierepr	aktyk							
Sheep: 2									
	le Dierehospita	aaı							
Sheep: 2		<u> </u>							
	n, Wesselsbro	n Dierekii	піек						
Sheep: 1	-4-1								
Kwazulu-Na		141.							
•	dumeni Herd I	neaith							
Dairy: 1 Western Ca									
		namı Hası	:4-1						
	erberg Veteri	пагу поѕр	itai						
Sheep: 3	s Veterinary H	ocnital							
Sheep: 2	s vetermary n	ospitai							
	(WC), Heidelb	ora Dioro	kliniak						
Sheep: 2	(WC), Heldelb	erg Diere	KIIIICK						
	n, Swellendam	Dierehos	nitaal						
Sheep: 3	ii, owenendam	Dici ciioo	picaai						
Diarrhoe	a								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					Juic	·····	Cape	Jupe	Jupe
Average	1.0 (1)	1.5 (4)		3.0 (7)	2.8	2.8 (6)	2.0 (1)	1.8 (6)	
Avelage	1.0 (1)	1.5 (4)		5.0 (7)	(19)	2.6 (0)	2.0 (1)	1.6 (0)	
									l

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)	1.5 (2)	3.0 (3)	2.8 (8)	3.0 (3)		1.5 (2)	
Dairy				3.0 (1)			2.0 (3)	
Sheep		1.0 (1)	3.0 (4)	2.8 (10)	2.5 (2)	2.0 (1)	2.0 (1)	
Goat		2.0 (1)			3.0 (1)			

Mpumalanga

Middelburg, Middelburg Dierehospitaal

Beef: 1

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 1

Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 1, Goat: 2

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Sheep: 3

Feedlot sheep, 2 days after arrival and processing

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3, Sheep: 3

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 3, Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 3, Sheep: 3

Harrismith, Harrismith Dierehospitaal

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 3, Sheep: 3

Reitz, Riemland Dierehospitaal

Beef: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3									
Calves									
Sheep: 3									
Lambs									
Goat: 3									
Kids									
	dumoni Hord I	aaalth							
	dumeni Herd I	lealui							
Sheep: 2	-bura Vatarin	ami Hauss	. Uaanital						
Beef: 3	zburg, Veterin	ary nouse	поѕрісаі						
Eastern Cap		aat Vataul	name Climie						
	et, Graaff Rei	net veteri	nary Clinic	1					
Sheep: 2									
Western Ca	•								
	y, Invitrotech								
Dairy: 1									
	y, Malmesbury	Dierenos	рітааі						
	/: 3, Sheep: 2								
Oudtshoorn	, Ostrimea								
Beef: 1									
	severe outbrea			nplicated	by bact	erial infection			
	ı, Swellendam	Dierehos	pitaal						
Dairy: 2									
Epididym	itis								^
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 to	en and 3 =	more than	10 cases
Sheep					2.0 (1)		2.0 (1)		
Free State									
	, Greylingsrust	t Dierespr	eekkamer						
Sheep: 2									
Eastern Cap	e								
Somerset Ea	ast, Bosberg V	eterinary	Clinic						
Sheep: 2									
Eye Canc	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (4)	2.0 (1)	2.0 (1)	1.5 (2)	
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)						
Dairy					1.5 (4)		2.0 (1)	1.5 (2)				
Free State												
Clocolan, Cl	ocolan Dierek	liniek										
Dairy: 2												
Kroonstad, Kroonstad Dierehospitaal												
Dairy: 2												
Ladybrand, Ladybrand Dierekliniek												
Dairy: 1												
•	nekal Dierekli	niek										
Dairy: 1												
Kwazulu-Na			_									
Bergville, Be Beef: 2	ergville Veteri	nary Clinic	<u> </u>									
Eastern Cap Meyandria	e Alexandria Pla	attaland S	nrookkam	or								
Dairy: 2	AICAGIIUI IG PI	acceidilu S	preekkalli	CI								
Western Ca _l	ne .											
	, Malmesbury	Dierehos	nitaal									
Dairy: 2	, Hannesbury	Dictellos	picaai									
	Riversdal Dier	ekliniek										
Dairy: 1	Kiverbuur Bier	Citimien										
Eye infect	tions								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	1.9 (7)	2.7 (3)		2.3 (3)	2.1 (21)	1.9 (8)	1.5 (4)	2.2 (5)				
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	1.8 (5)	0.0 (1)			2.2							
Dairy	1.0 (3)	3.0 (1)		2.0 (2)		2.2 (5)	2.0 (1)	1.5 (2)				
	1.0 (3)	3.0 (1)		2.0 (2)	2.0 (2)	2.2 (5)	2.0 (1)	1.5 (2) 2.5 (2)				
Sheep	2.0 (2)	3.0 (1)		2.0 (2)3.0 (1)	2.0 (2)	2.0 (1)	1.5 (2)					
Sheep Goat		, , , , , , , , , , , , , , , , , , ,			2.0 (2) 2.0	2.0 (1)		2.5 (2)				
Goat Mpumalang Grootvlei, G Beef: 2 Hendrina, M	2.0 (2) a rootvlei Diere	3.0 (1) 2.0 (1) kliniek			2.0 (2) 2.0	2.0 (1)	1.5 (2)	2.5 (2)				
Goat Mpumalanga Grootvlei, G Beef: 2 Hendrina, M Beef: 2, Shee Lydenburg,	2.0 (2) a rootvlei Diere looiplaas Vete p: 1 Longtom Dier	3.0 (1) 2.0 (1) kliniek rinêre Die			2.0 (2) 2.0	2.0 (1)	1.5 (2)	2.5 (2)				
Goat Mpumalange Grootvlei, G Beef: 2 Hendrina, M Beef: 2, Shee Lydenburg, Beef: 3, Shee	2.0 (2) a rootvlei Diere looiplaas Vete p: 1 Longtom Dier p: 3	3.0 (1) 2.0 (1) kliniek rinêre Die	nste		2.0 (2) 2.0	2.0 (1)	1.5 (2)	2.5 (2)				
Goat Mpumalange Grootvlei, G Beef: 2 Hendrina, M Beef: 2, Shee Lydenburg, Beef: 3, Shee	2.0 (2) a rootvlei Diere looiplaas Vete p: 1 Longtom Dier	3.0 (1) 2.0 (1) kliniek rinêre Die	nste		2.0 (2) 2.0	2.0 (1)	1.5 (2)	2.5 (2)				

Beef: 1 Gautena Hammanskraal, Themba Animal Clinic Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Beef: 3 Exploding fly infestation Sheep: 3 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Schweizer-Reneke, Buffeldoorn Dierekliniek SR Sheep: 3 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Sheep: 2 Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 1 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Dairy: 2, Sheep: 3 Parys, Parys Dierehospitaal Beef: 2 **Reitz, Riemland Dierehospitaal** Beef: 2, Dairy: 2, Sheep: 2 Senekal, Senekal Dierekliniek Sheep: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2, Sheep: 2 **Wesselsbron, Wesselsbron Dierekliniek** Beef: 2, Sheep: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Pietermaritzburg, Veterinary House Hospital Beef: 3 Pongola, Pongola Animal Clinic Sheep: 1, Goat: 1 **Eastern Cape**

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1, Go													
	et, Graaff Rei	net Veteri	nary Clinic	3									
Sheep: 2													
	n, Queenstow	n veterina	iry clinic										
Beef: 2 Western Ca													
	pe verberg Veteri	nany Hacn	ital										
Dairy: 3	reibeig vetein	нагу поѕр	ılaı										
	, Malmeshury	Dierehos	nitaal										
	Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 2												
Piketberg, Piketberg Dierehospitaal													
Sheep: 3													
Young lambs, opthalmia and conjunctivitis													
Stellenbosch, Stellenbosch Animal Hospital													
Beef: 1													
Joint III													
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape				
Average		1.0 (1)		2.0 (2)	1.0 (2)	2.0 (2)	1.0 (1)	2.0 (2)					
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)	1.0 (1)	2.0 (2)		2.0 (1)					
Dairy								2.0(1)					
Sheep				2.0 (1)	1.0 (1)								
Goat							1.0(1)						
Gauteng								<u> </u>					
	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clini	c						
Beef: 1													
Septic arthriti	is												
North West													
	Klerksdorp Di	ierehospit	aal										
Beef: 2, Shee	ep: 2												
Free State													
	ocolan Dierek	liniek											
Beef: 1	n, Wesselsbro	n Diarakli	niok										
Sheep: 1	ii, wesselsbio	II DICI CKII	IIICK										
Kwazulu-Na	atal												
	ergville Veteri	nary Clini	С										
Beef: 2		,											
	ਸਰਵਾ: ਟ Underberg, Underberg Veterinary Surgery												
Beef: 2													
Eastern Cap	e												
Graaff-Rein Goat: 1	et, Graaff Reii	net Veteri	nary Clinic	:									

Western Cape									
Malmesbury, Malmesbury Dierehospitaal									
Beef: 2, Dairy	<i>ı</i> : 2								
Lameness/Foot Problems									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.0 (5)	1.0 (1)	2.6 (5)	2.3 (20)	2.2 (5)	2.0 (1)	2.4 (7)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.0 (2)	2.0 (3)	1.0 (1)	2.5 (2)	2.0 (10)	2.0 (3)		2.0 (1)	
Dairy					2.5 (2)	2.0 (1)		2.5 (6)	
Sheep	2.0 (2)	2.0 (1)		2.7 (3)	2.5 (8)	3.0 (1)	2.0 (1)		
Goat	2.0(1)	2.0(1)							
Lydenburg, Longtom Dierekliniek Beef: 3, Sheep: 3, Goat: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 2, Sheep: 2									
Beef: 2, Goat Pretoria, On	raal, Themba <i>l</i> : 2 nderstepoort A			nd Prod	uction /	Animal Clini	С		
Beef: 2									
Limpopo Mokonane	Dr Henk Visse	r							
Beef: 1	DI HEHK VISSE								
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3, Shee									
	Klerksdorp Di	ierehospit	aal						
Beef: 2, Sheep: 2									
Stella, Stella Dierekliniek									
Sheep: 3 Free State									
Bultfontein, Greylingsrust Dierespreekkamer									
Beef: 1, Sheep: 3									
Clocolan, Clocolan Dierekliniek									
Beef: 3, Dairy: 3, Sheep: 3									
Dewetsdorp, Platkop Dierekliniek									
Beef: 2, Shee									
	Harrismith Di	erehospit	aal						
Sheep: 1									

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 2, Sheep: 2

Parys, Parys Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Camperdown, Camperdown Vet Clinic

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Underberg, Underberg Veterinary Surgery

Dairy: 2 Good rains Sheep: 3

Eastern Cape

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2
Western Cape

Caledon, Overberg Veterinary Hospital

Dairy: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Higher incidence on farms where regular visits for hoof trimming is neglected because of economic hardship due to low milk prices. Remarkable improvement after hooftrimmers were called in.

Malmesbury, Invitrotech

Dairy: 3 36 cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3

Riversdale, Riversdal Dierekliniek

Dairy: 2

Lung infection									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (7)	1.6 (5)	1.3 (4)	2.6 (5)	2.4 (20)	1.8 (4)	1.0 (1)	2.4 (7)	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	1.8 (4)	2.0 (1)	1.5 (2)	2.7 (3)	2.4 (10)	2.0 (3)		2.0 (1)	
Dairy					2.0 (1)	1.0(1)		2.8 (4)	
Sheep	2.3 (3)	1.5 (2)	1.0 (1)	2.5 (2)	2.4 (9)			2.0 (2)	2.0 (1)
Goat		1.5 (2)	1.0(1)				1.0(1)		

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2, Sheep: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Piet Retief, Pets Vet Hospital

Beef: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3
Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2, Sheep: 2

Hammanskraal, Themba Animal Clinic

Goat: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1, Goat: 1

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1, Goat: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2, Sheep: 2

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3 Feedlot calves

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3, Sheep: 3

Bultfontein, Greylingsrust Dierespreekkamer

Beef: 1, Sheep: 2

Clocolan, Clocolan Dierekliniek

Beef: 3, Dairy: 2, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 3

Parys, Parys Dierehospitaal

Beef: 2

Vilioenskroon,	\/: :	Diamaldinial.
VIIIAANSKIAAN	VIIIOANEKIOON	I JIATAKIINIAK
A ILLOCHSKI OOLI,	A ILLOCHSKI OOH	DICICKIIIICK

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 3

Vrede, Saulshoek Dierepraktyk

Beef: 2

Vrede, Vrede Dierehospitaal

Sheep: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 2, Dairy: 1

Eshowe, Eshowe Veterinary Hospital

Beef: 2

Eastern Cape

Somerset East, Bosberg Veterinary Clinic

Goat: 1

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 3

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

Riversdale, Riversdal Dierekliniek

Dairy: 2

Northern Cape

Upington, Upington Veeartsenykliniek

Sheep: 2 Pasteurellosis

Mastitis in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.5 (2)		1.0 (3)	3.0 (2)	2.5 (4)	2.3 (3)	2.0 (2)	2.4 (8)		

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

Beef	2.0 (1)	1.0(1)	3.0 (1)	3.0 (2)	2.0 (1)			
Dairy	1.0 (1)			2.0 (1)	2.5 (2)	2.0 (1)	2.4 (8)	
Sheep		1.0 (1)	3.0 (1)	2.0 (1)		2.0 (1)		

Goat 1.0 (1)

Mpumalanga

Hendrina, Mooiplaas Veterinêre Dienste

Dairy: 1

Lydenburg, Longtom Dierekliniek

Beef: 2 **Limpopo**

Polokwane, Pietersburg Veterinary Clinic

Beef: 1, Sheep: 1, Goat: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Clocolan, Clocolan Dierekliniek

Dairy: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Dairy: 2

Underberg, Underberg Veterinary Surgery

Dairy: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Western Cape

Caledon, Overberg Veterinary Hospital

Dairy: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 2

George, Dr Mark Chimes

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Invitrotech

Dairy: 3 51 new cases

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Swellendam, Swellendam Dierehospitaal

Dairy: 3

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 (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	2.0 (1)					2.0(1)			
Dairy								2.0 (1)	
Sheep					1.0 (1)	2.0 (1)			
Mpumalang								_	
	Longtom Dier	ekliniek							
Beef: 2									
Free State) t t - D:	D	.1.4.						
Sheep: 1	Dosvrystaat Di	ere Produ	ikte						
Kwazulu-Na	atal								
	Underberg Ve	terinary S	Surgery						
Beef: 2, Shee		commany o	argery						
Western Ca									
	, y, Malmesbury	Dierehos	pitaal						
Dairy: 2									
Red gut ((Sheep)								^
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
Sheep								2.0(1)	2.0(1)
Western Ca	pe								
	y, Malmesbury	Dierehos	pitaal						
	Kimberley Die	rekliniek							
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)							2.0 (1)	

reported

Beef 1.0 (1)

2.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Western Cape

Malmesbury, Invitrotech

Dairy: 2

8 cases fell on cement

Downer										
PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)	1.0 (1)	1.0 (1)	1.5 (2)	1.8 (4)	2.0 (1)	2.0 (1)	2.3 (3)	2.5 (2)	

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

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

Mpumalanga

Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 2 Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1 **Limpopo**

Mokopane, Dr Henk Visser

Beef: 1
North West

Brits, Brits Dierekliniek

Dairy: 2

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 1
Free State

Dewetsdorp, Platkop Dierekliniek

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 1, Dairy: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2, Sheep: 2 Malmesbury, Invitrotech Dairy: 3 19 cases **Northern Cape** Postmasburg, Postmasburg Dierekliniek **Upington, Upington Veeartsenykliniek** Beef: 3 Severe drought conditions, north of Van Zyls Rust. Many animals euthenazed, unable to stand **Traumatic Reticulo-pericarditis** Western North Free Kwazulu-**Eastern Northern PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape **Average** 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(1)1.0(1)**North West** Christiana, Christiana Dierehospitaal Beef: 2 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Beef: 1 Other North Kwazulu-Northern Free Eastern Western **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.0 1.0 (1) 1.0 (1) 2.5 (2) **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) 1.0 (1) 3.0(1) **Dairy** 1.0 2.0(1)Sheep (1) Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Sinusitis, post dehorning Limpopo **Bela Bela, Artemis Veterinary Services** Beef: 1 Acute death in a cow

F 61-1-									
Free State	. D'								
	e Dierehospita	aal							
Sheep: 1									
Schistosomus									
Western Ca									
	gerberg Diereh	ospitaal I	Darling						
Sheep: 2									
Rectal prolap	S								
Malmesbury	y, Invitrotech								
Dairy: 3									
Mortalities									
Vestubul	ar syndrom	e (Middl	e ear inf	ection)				
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
Beef						1.0(1)			
Kwazulu-Na	stal					12 ()			
		ami Harra	. Usanital						
	zburg, Veterin	ary House	e Hospitai						
Beef: 1									
Metabol	ic Diseases								
Acidosis									^
	Mpumalanga		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	Mpumalanga			West	State 1.8				
PROVINCE Average	Mpumalanga ortance scale: 1	Gauteng 1.0 (1)	1.0 (2)	West 1.0 (1)	1.8 (5)	2.0 (1)	Cape 2.0 (2)	Cape 2.2 (5)	Саре
PROVINCE Average Level of impo		Gauteng 1.0 (1)	1.0 (2)	West 1.0 (1)	1.8 (5)	2.0 (1)	Cape 2.0 (2)	Cape 2.2 (5)	Саре
PROVINCE Average Level of imporeported		Gauteng 1.0 (1) = one case	1.0 (2) e, 2 = more	West 1.0 (1)	1.8 (5) e case b	2.0 (1)	Cape 2.0 (2)	Cape 2.2 (5) more than	Саре
PROVINCE Average Level of imporeported Beef		Gauteng 1.0 (1) = one case	1.0 (2) e, 2 = more	West 1.0 (1)	1.8 (5) e case b 1.7 (3)	Natal 2.0 (1) ut less than t	Cape 2.0 (2)	2.2 (5) more than 2.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng	ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2)	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng		1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2)	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or	ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2)	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Cape
PROVINCE Average Level of impore reported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1	ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2)	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Cape
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1 Limpopo	ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2) Hospital an	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Cape
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1 Limpopo	ortance scale: 1	1.0 (1) = one case 1.0 (1)	1.0 (2) e, 2 = more 1.0 (2) Hospital an	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Cape
PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1 Limpopo Polokwane, Beef: 1	ortance scale: 1 nderstepoort A Pietersburg V	Gauteng 1.0 (1) = one case 1.0 (1) cademic l	1.0 (2) e, 2 = more 1.0 (2) Hospital and	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Cape
Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1 Limpopo Polokwane, Beef: 1 Vaalwater, '	ortance scale: 1	Gauteng 1.0 (1) = one case 1.0 (1) cademic l	1.0 (2) e, 2 = more 1.0 (2) Hospital and	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Саре
PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng Pretoria, Or Beef: 1 Limpopo Polokwane, Beef: 1	ortance scale: 1 nderstepoort A Pietersburg V	Gauteng 1.0 (1) = one case 1.0 (1) cademic l	1.0 (2) e, 2 = more 1.0 (2) Hospital and	1.0 (1) than one	1.8 (5) e case b 1.7 (3) 2.0 (2)	2.0 (1) ut less than t	2.0 (2) en and 3 = 2.0 (2)	2.2 (5) more than 2.0 (1) 3.0 (1)	Саре

North West									
	Dierekliniek								
•	Diefekilliek								
Sheep: 1									
Free State	la a maka d Diam	. .							
	loopstad Diere	ekiiniek							
Beef: 1	.,								
	Kroonstad Die	rehospitaal							
Sheep: 2									
•	nel Veterinary	Clinic							
Beef: 2									
	land Dierehos	pitaal							
Beef: 2									
Vrede, Saul	shoek Dierepr	aktyk							
Sheep: 2									
Kwazulu-Na	atal								
Dundee, En	dumeni Herd l	nealth							
Dairy: 2									
Eastern Cap	e								
Graaff-Rein	et, Camdeboo	Veterinary Cli	nic						
Sheep: 1									
Steynsburg	, Steynsburg D	ierehospitaal							
Sheep: 3		<u> </u>							
Western Ca	pe								
	est, Beaufort I	Dierekliniek							
Sheep: 1	,								
	v. Malmesburv	Dierehospitaa	1						
	y: 3, Sheep: 2	p	· -						
	Piketberg Dier	ehospitaal							
Sheep: 3	metaer g z ler	oop							
•	ves, given grain	as additional fee	d. ove	ereating.					
rioladdid iir di	res, given grain		, c ,	o. oa.ag.					
Displaced	l abomasun	1							<u>^</u>
				1					
DDOVINGE	Maumalanaa	Cautana Lima		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	mpumaianga	Gauteng Limp	оро	West	State	Natal	Cape	Cape	Cape
Average						2.0(1)	1.0(1)	2.0(1)	
							-110 (-)	_,,	
Level of impo	ortance scale: 1	= one case, 2 =	more	than on	e case h	ut less than t	en and 3 =	more than	10 cases
reported		0.10 0000, 2		ciidii oii	c case s	at 1655 than t	cir dila 5		10 00000
•								l	
Dairy						2.0 (1)	1.0 (1)	2.0 (1)	
Kwazulu-Na	atal								
Dundee, En	dumeni Herd l	nealth							
Dairy: 2									
Eastern Cap	oe .								
		eterinary Clini	С						
Dairy: 1	,	, , , , , , , , , , , , , , , , , , , ,							
Western Ca	ne								
		Dierehospitaa	1						
Dairy: 2	,,a		.=						
Juli y i Z									
Ketosis									^
11000010									

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.0 (3)		2.0 (1)	2.3 (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 1	10 cases
Dairy								3.0 (1)	
Sheep		1.0 (1)			2.0 (3)		2.0 (1)	2.0 (3)	
Sheep: 1 Free State Hoopstad, F Sheep: 3 Memel, Mer Sheep: 1 Villiers, Will Sheep: 2 Eastern Cap Graaff-Rein Sheep: 2 Western Ca Caledon, Ov Sheep: 2 Malmesbury Dairy: 3, She	et, Graaff Reii pe verberg Veterii v, Malmesbury	ekliniek Clinic kliniek Ve net Veteri nary Hosp	nnootskap nary Clinic ital pitaal						
Milk Feve	er								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.7 (3)			2.0 (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 :	10 cases
Beef					2.0 (1)			1.0 (1)	
Dairy	1.0 (1)	1.0(1)			1.5 (2)			2.3 (3)	
Sheep								2.0 (1)	
Mpumalang Lydenburg, Dairy: 1	a Longtom Dier	ekliniek							

Gauteng

Hammanskraal, Themba Animal Clinic

Dairy: 1 **Free State**

Ladybrand, Ladybrand Dierekliniek

Reitz, Riemland Dierehospitaal

Dairy: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Western Cape

George, George Animal Hospital

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3, Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Reproductive diseases											
Dystocia (Difficult Births)											
PROVINCE	VINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape										
Average	1.9 (7)	1.5 (2)	1.5 (4)	2.5 (6)	1.8 (18)	2.0 (11)	2.0 (1)	1.8 (12)	2.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10											

reported

Beef	2.0 (4)		1.7 (3)	2.5 (4)	1.8 (10)	2.1 (7)		1.5 (4)	2.0 (1)
Dairy					1.7 (3)	2.0 (1)	2.0 (1)	1.8 (6)	
Sheep	1.7 (3)	1.0 (1)	1.0 (1)	2.5 (2)	2.0 (5)	2.0 (2)		2.0 (2)	
Goat		2.0(1)				1.0(1)			

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2, Sheep: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2, Sheep: 1

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Middelburg, Middelburg Dierehospitaal

Beef: 2 Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1, Goat: 2

Limpopo

Modimolle, Kranskop Dierekliniek Beef: 2 Six cases Sheep: 1 Mokopane, Dr Henk Visser **Polokwane, Pietersburg Veterinary Clinic** Beef: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 Stella, Stella Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 1 Clocolan, Clocolan Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 1 Harrismith, Harrismith Dierehospitaal Sheep: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 2, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Dairy: 2 **Memel, Memel Veterinary Clinic** Beef: 1, Sheep: 1 **Reitz, Riemland Dierehospitaal** Beef: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Camperdown, Camperdown Vet Clinic Beef: 2, Sheep: 1, Goat: 1 **Dundee, Endumeni Herd health** Beef: 1 **Estcourt, Estcourt Vet Clinic** Beef: 1, Dairy: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Eastern Cap									
	Alexandria Pla	atteland S	preekkam	ier					
Dairy: 2									
Western Ca									
•	iledon Dierekli	niek							
Beef: 1									
	erberg Veteri	nary Hosp	ital						
	y: 2, Sheep: 2								
	gerberg Diereh	ospitaal [Darling						
Dairy: 2									
Malmesbury	y, Invitrotech								
Dairy: 2									
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	y: 2, Sheep: 2								
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 2, Dairy									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2	•		•						
Northern Ca	ape								
	rg, Postmasbu	ra Dierekl	iniek						
Beef: 2	. g,	. 9							
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)			2.5 (6)	
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)	
Dairy					2.0 (2)			2.6 (5)	
Free State									
	ocolan Dierek	liniak							
Dairy: 2	ocolali Dielek	IIIIICK							
	Kroonstad Die	robocnita	ما						
Dairy: 2	KI OUIIStau Die	enospica	aı						
Western Ca	-	alale							
	ledon Dierekli	піек							
Dairy: 3			••						
	erberg Veteri	nary Hosp	ıtaı						
Dairy: 2	/1a\								
	(WC), Heidelb	erg Dierei	Kliniek						
Dairy: 3									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	n, Swellendam	Dierehos	pitaal						
Dairy: 2									
Metritis									^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			3.0 (2)	1.7 (3)	3.0 (1)	2.0 (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	1.0 (1)			3.0 (1)	2.0 (2)	3.0 (1)			
Dairy					1.0 (1)			2.0 (3)	
Sheep				3.0(1)			2.0 (1)		
Mpumalang	а								
Lydenburg,	Longtom Dier	ekliniek							
Beef: 1									
North West			_						
•	Christiana Die	rehospita	al						
Beef: 3, Shee	ep: 3								
Free State	: D.: Ctb								
	in, Dr Stephan	wessels							
Beef: 2	ocolan Dierek	liniak							
Dairy: 1	occiaii Dielek	IIIIEK							
•	s Dierehospita	al							
Beef: 2									
Kwazulu-Na	ntal								
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3									
Eastern Cap									
	et, Graaff Reir	net Veteri	nary Clinic	:					
Sheep: 2									
Western Ca	•								
	,, Dr Otto Krie	k							
Dairy: 1									
	,, Malmesbury	Dierehos	pitaal						
Dairy: 3									
	ı, Swellendam	Dierehos	pitaal						
Dairy: 2									

Poor conception								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.5 (2)	2.0 (2)	2.2 (5)	2.3 (3)	3.0 (2)	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

	2.0 (1)		1.5 (2)	2.0 (1)	2.5 (4)	2.3 (3)	3.0 (1)	2.0 (1)	
Dairy					1.0 (1)			2.0 (2)	
Sheep				2.0(1)			3.0 (1)		
Mpumalanga	3								
Middelburg ,	, Middelburg [Dierehosp	itaal						
Beef: 2									
Limpopo									
Mokopane, [Or Henk Visse	r							
Beef: 1									
Polokwane,	Pietersburg V	eterinary	Clinic						
Beef: 2									
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 2, Sheep	p: 2								
Free State									
	ocolan Dierek	liniek							
Beef: 2									
	Harrismith Die	erehospita	aal						
Beef: 3									
	(roonstad Die	rehospita	al						
Dairy: 1									
	epoort Dierek	diniek Vei	nnootskap)					
Beef: 2	l. D'								
	hoek Dierepra	актук							
Beef: 3									
Trichomonosis									
Kwazulu-Nat		name Climi	_						
вегдуппе, ве Beef: 2	ergville Veteri	nary Cilili	G						
	lumeni Herd h	naalth							
Beef: 2	iumem neru i	Icaitii							
	Underberg Ve	tarinary S	urgery						
Beef: 3	bilderberg ve	cermany 5	urgery						
Eastern Cap	e								
-	steynsburg D	ierehosni	taal						
Beef: 3, Sheep		.э. с.103р1							
Western Cap									
	, Dr Otto Krie	k							
Dairy: 2	, =	-							
	, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									

Retained	afterbirth								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (4)				2.0 (4)	2.0 (1)	2.0 (2)	1.6 (5)	

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

Beef	1.3 (3)	2.0)	2.0 (1)		1.0 (1)	
Dairy					2.0 (2)	1.8 (4)	
Sheep	1.0 (1)	2.0 (1))				

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 1
Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2 **Kwazulu-Natal**

Bergville, Bergville Veterinary Clinic

Beef: 2

Eastern Cape

Somerset East, Bosberg Veterinary Clinic

Dairy: 2

Steynsburg, Steynsburg Dierehospitaal

Dairy: 2

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 1

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Sheath Prolaps									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.7 (3)	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					1.7 (3)	1.5 (2)			
Free State									
Hoopstad, F	loopstad Dier	ekliniek							
Beef: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 1									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 2									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2			•						
	Mtubatuba Ar	nımai Clin	IC						
Beef: 1									
Uterus pr	olaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (6)		1.0 (1)		1.6 (8)	1.5 (2)	1.0 (1)	1.4 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (3)		1.0 (1)		1.7 (3)	1.5 (2)		1.0(1)	
Dairy							1.0(1)	1.7 (3)	
Sheep	1.7 (3)				1.6 (5)			1.0 (1)	
Mpumalang	a								
	nal Diereklinie	k							
Beef: 1, Shee									
	looiplaas Vete	rinêre Die	enste						
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 1, Shee									
	Cape Cross Vol	ksrust Die	erehospita	al					
Sheep: 1									
Limpopo	Pietersburg V	otorinary.	Clinic						
Beef: 1	rictersburg v	etermary	Cillic						
Free State									
	ocolan Dierek	liniek							
Beef: 2									
	Dosvrystaat Di	ere Produ	kte						
Beef: 1									
	Harrismith, Harrismith Dierehospitaal								
Sheep: 1									
Sheep: 3	loopstad Dier								
Philippolis,	Rowelsfonteir	veearts S	Spreekkan	ner					

Sheep: 1 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 **Kwazulu-Natal Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 1 **Eastern Cape** Somerset East, Bosberg Veterinary Clinic Dairy: 1 **Western Cape** Caledon, Overberg Veterinary Hospital Dairy: 2 Heidelberg (WC), Heidelberg Dierekliniek Dairy: 1, Sheep: 1 **Malmesbury, Malmesbury Dierehospitaal** Dairy: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Vaginal (Cervical) prolaps** Kwazulu-Western Northern **Eastern** North **Free PROVINCE Mpumalanga Gauteng Limpopo** West Natal State Cape Cape Cape 1.6 **Average** 2.0(1)1.0(2)1.0 (1) 1.0 (2) 1.7 (3) 1.7 (3) 1.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 **Beef** 1.0(2)1.0 (1) 1.0 (1) 2.0(2)1.0(1)(6) 1.5 (2) **Dairy** 1.0(1)1.7 1.0(1)Sheep 2.0(1)2.0(1)Mpumalanga Lydenburg, Longtom Dierekliniek Sheep: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 1 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 1, Sheep: 1 Free State

					2.0				
	paga			West	State	Natal	Cape	Cape	Cape
PROVINCE	Mpumalanga	Gautena	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
					ll e				
Cold expo	osure								
Cilillatic	ar cause								
Climatic	al Cause								
Beef: 1	<i>.</i>								
	g, Postmasbu	rg Dierekl	iniek						
Northern Ca	ape								
Dairy: 1	n, otenenbose	ii Aiiiiiqi	ПОЗРІССІ						
	h, Stellenbosc	h Animal	Hospital						
Dairy: 2, She		у 1103р	- 4641						
	erberg Veteri	nary Hosn	ital						
Western Ca	pe								
Beef: 2		u.,	, moopica.						
•	zburg, Veterin	arv House	Hosnital						
Dairy: 1	icourt vet Cili	IIC							
Beef: 2 Esteourt Es	tcourt Vet Clir	nic .							
	ergville Veteri	nary Clini	С						
Kwazulu-Na									
Sheep: 1									
	n, Wesselsbro	n Dierekli	niek						
Beef: 2, Shee									
	gepoort Dierel	kliniek Ve	nnootskap)					
Beef: 1									
•	nekal Dierekli	niek							
Beef: 2									
	land Dierehos	pitaal							
Sheep: 2									
Memel, Mer	nel Veterinary	Clinic							
Sheep: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 1, Shee									
•	loopstad Diere	ekliniek							
Beef: 1, Shee		o. 000p.c							
	Harrismith Die	erehosnit	aal						
	ocolali bielek	IIIIICK							
Beef: 2	ocolan Dierek	liniek							

Sheep: 1									
Harrismith,	Harrismith Di	erehospita	aal						
Sheep: 3									
Kwazulu-Na									
	ermaritzburg, Veterinary House Hospital								
Goat: 1									
Western Ca	•								
	est, Beaufort I	Diereklinie	ek						
Sheep: 1									
	Riversdal Dier	ekliniek							
Sheep: 2									
Drought									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.8 (4)		3.0 (7)
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							3.0 (1)		3.0 (2)
Dairy							2.0 (1)		
Sheep							3.0 (1)		3.0 (3)
Goat		3.0 (1) 3.0 (2)							
Eastern Cap	ne .								
	, Steynsburg D	ierehospi	itaal						
	y: 2, Sheep: 3, 0								
Northern Ca									
De Aar, De	Aar Veterinary	Clinic							
Sheep: 3									
	ards western are			von					
	rg, Postmasbu	rg Dierek	iniek						
	ep: 3, Goat: 3								
	lpington Veea	rtsenyklin	iek						
Beef: 3					L L!				
Severe aroug Sheep: 3, Go	ht, economy sev	verely depr	esseu, eme	rgency si	tuation.				
Lightning									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	2.0 (5)	1.7 (3)	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
Beef				1.0 (1)	2.0 (5)	1.7 (3)	1.0 (1)		
North West									

	Christiana Die	rehospita	al						
Beef: 1									
Free State									
	ocolan Dierek	liniek							
Beef: 2			•						
	Kroonstad, Kroonstad Dierehospitaal								
Beef: 3		ol: :							
	nel Veterinary	Clinic							
Beef: 2	b'			_					
viill ers, w iig Beef: 2	gepoort Dierel	kliniek ve	ппоотѕкар)					
	m Wassalshra	n Diarakli	niak						
wesseisbroi Beef: 1	n, Wesselsbro	n Dierekii	шек						
Kwazulu-Na	tal								
	ergville Veteri	nary Clini							
Beef: 2	ergville veteri	iiai y Ciiiii	<u> </u>						
	dumeni Herd h	nealth							
Beef: 2	admem neru i	Carai							
	Ncanduvet Ne	wcastle							
Beef: 1	i i canaavee ne	WCastic							
Eastern Cap	e								
	n, Queenstowi	n Veterina	rv clinic						
Beef: 1	i, Queenstori	ii veceiiiie	ir y Cillino						
Frozen to	death								_
PROVINCE	Mpumalanga	Gauteng	Limpono	North	Free	Kwazulu-	Eastern	Western	Northern
		Cuutong	шіроро	West	State	Natal	Cape	Cape	Cape
			Еппроро	West	2.0 (1)	Natal	Cape	Cape	Cape
Average Level of impo	ortance scale: 1				2.0 (1)				
Average					2.0 (1)				
Average Level of imporeported Sheep					2.0 (1) se case b				
Average Level of impore reported Sheep Free State	ortance scale: 1	= one case			2.0 (1) se case b				
Average Level of imporeported Sheep Free State Clocolan, Clo		= one case			2.0 (1) se case b				
Average Level of impore reported Sheep Free State Clocolan, Clo	ortance scale: 1 ocolan Dierek	= one case			2.0 (1) se case b				
Average Level of impore reported Sheep Free State Clocolan, Clo	ortance scale: 1 ocolan Dierek cific diseas	= one case	e, 2 = more		2.0 (1) se case b				
Average Level of impore reported Sheep Free State Clocolan, Clo	ortance scale: 1 ocolan Dierek	= one case	e, 2 = more		2.0 (1) se case b				
Average Level of impore reported Sheep Free State Clocolan, Clocheep: 2 Non spec	ortance scale: 1 ocolan Dierek cific diseas	= one case	e, 2 = more		2.0 (1) se case b	ut less than to			
Average Level of impore reported Sheep Free State Clocolan, Clocheep: 2 Non Special Cause of Characteristics of Characteris	ortance scale: 1 ocolan Dierek cific diseas death not e	= one case	e, 2 = more	e than on	2.0 (1) se case be 2.0 (1)	ut less than to	en and 3 =	more than	10 cases Northern
Average Level of impore reported Sheep Free State Clocolan, Clo	ortance scale: 1 ocolan Dierek cific diseas death not e	= one case liniek ses stablish Gauteng 1.0 (1)	ed Limpopo	North West	2.0 (1) e case b 2.0 (1) Free State	ut less than to	en and 3 = Eastern Cape	western Cape	10 cases Northern Cape
Average Level of impore reported Sheep Free State Clocolan, Clo	occolan Dierek cific diseas death not e	= one case liniek ses stablish Gauteng 1.0 (1)	ed Limpopo	North West	2.0 (1) e case b 2.0 (1) Free State	ut less than to	en and 3 = Eastern Cape	western Cape	10 cases Northern Cape

Pretoria, On Beef: 1	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinio	3		
Acute death									
Preditors									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (4)			2.3 (8)				
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		1.0(1)			1.5 (2)				
Sheep		1.0 (1)			2.5 (6)				
Goat		1.0(2)							
Gauteng									
	aal, Themba A	Animal Cli	nic						
Goat: 1	uu.,								
	derstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinic	3		
Beef: 1							-		
Laceration, do	oa bite								
Sheep: 1									
Laceration, do	og bite								
Goat: 1									
Laceration, do	og bite								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2, Shee	p: 3								
	Oosvrystaat Di	ere Produ	ıkte						
Beef: 1, Shee									
	Harrismith Di	erehospit	aal						
Sheep: 2			_						
	Rowelsfontein	veearts	Spreekkan	ner					
Sheep: 2									
	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 3	ah a ah B'	- l-tl-							
Vrede, Sauls Sheep: 2	shoek Dierepr	актук							
эпеер. 2									
Sabotatio	on - Theft								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)			2.8 (4)		2.0 (1)		

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

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

Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1, Goat: 1
Free State

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 3 **Eastern Cape**

Steynsburg, Steynsburg Dierehospitaal

Sheep: 2

Trauma									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)			1.0 (1)				

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

Beef	1.0(1)		
Dairy	1.0 (1)		
Chaan	, ,		1.0
Sheep			(1)
Goat		1.0(1)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 1, Dairy: 1

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Goat: 1 Fractures

Free State

Harrismith, Harrismith Dierehospitaal

Sheep: 1