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

#### December 2020

(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 (147) submitted reports during December 2020:

#### Mpumalanga (13)

Balfour - Dr. Louis van Jaarsveld

Bethal – Dr. Hardus Pieters

Ermelo – Dr. Ben Potgieter

Grootvlei – Dr. Neels van Wyk

Hendrina – Dr. Anja Steinberg

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Malalane - Drs. Van Sittert and Van Sittert

Middelburg – Dr. Neil Fourie

Nelspruit – Dr. André Beytel

Piet Retief - Niebuhr and Weber

Standerton - Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

#### Gauteng (11)

Bapsfontein – Drs. Engelbrecht and Olivier

Bronkhorstspruit – Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal - Dr. Hentie Engelbrecht

Krugersdorp-Veeartsnetwerk – Dr. Danie Odendaal

Magaliesburg – Dr. Ryan Jeffery

Nigel – Dr. Cindy van der Westhuizen

Nigel – Dr. Henry Labuschagne

Onderstepoort Veterinary Academic Hospital – Proff. Holm and Leask and Drs. Fitte, Grobler, Hentzen, Koeppel, Leask, Magadu, Magagula, Marufu, Mokoele, O'Dell, Tagwirreyi, Tshuma, Van den Hurk and Van der Leek

Pretoria – Dr. Hanneke Pienaar

Rayton – Dr. Frans Malan

Vanderbijlpark – Dr. Kobus Kok

#### Limpopo (7)

Bela-Bela (Warmbaths) - Dr. Nele Sabbe

Makhado – Drs. Harris, Klopper and Jacobs

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

Mokopane (Potgietersburg) - 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

#### North West (16)

Beestekraal - Dr. Alwyn Venter

Brits - Dr. Boshoff and Coertze

Brits – Dr. Gerhardus Scheepers

Christiana – Dr. Pieter Nel

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

Leeudoringstad - Dr. Ian Jonker

Lichtenburg - Dr. Nelmarie-Krüger-Rall

Ottosdal - Dr. Sharnelle Ferreira

Potchefstroom – Dr. Martin Jordaan

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

Schweizer-Reneke - Dr. Pieter Venter

Stella - Dr. Magdaleen Vosser

Ventersdorp – Drs. Van der Merwe and Cilliers

Vryburg – Dr. Jurie Kritzinger

Vryburg - Drs. De Jager and Rautenbach

Zeerust - Dr. Lizahn Venter

#### Free State (30)

Bethlehem – Drs. Strydom and Strydom

Bethlehem – Dr. J.C du Plessis

Bloemfontein – Dr. Stephan Wessels

Bloemfontein – Dr. Lizanne Meiring

Bultfontein - Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Kleynhans

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel

Ficksburg – Dr. Woody Kotzé

Frankfort - Drs. Lesssing, Cilliers and Janse van Rensburg

Harrismith – Dr. Wim Slabber

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

Hoopstad – Dr. Cassie van der Walt

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

Memel - Drs. Nixon and Nixon

Oranjeville - Dr. D'Wall Hauptfleish

Parys – Drs. Wessels and Wessels

Reitz - Dr. Murray Smith

Senekal - Dr. Jan Blignaut

Senekal – Dr. Theo Kotze

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers – Krüger and Maree

Vrede – Drs. Bester-Cloete, Myburgh and Roos

Vrede – dr. Rudolph Fourie

Warden – Dr. Paul Reynolds

Wesselsbron - Dr. Johan Jacobs

Winburg – Drs. Albertyn and Albertyn

Zastron – Drs. Troskie and Strauss

#### KwaZulu-Natal (12)

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais and Fynn

Eshowe – Drs. Pryke and Hoffman

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

Kokstad – Drs. Clowes, Shrives and Lees

Mtubatuba - Dr. Trevor Viljoen

Newcastle – Dr. Barry Rafferty

Pietermaritzburg - Drs. Kretzmann, Watkins, De Freitas and Barnard

Pongola – Dr. Heinz Kohrs

Underberg – Drs. King, Delaney and Huysamer

Vryheid – Drs. Theron and Theron

#### Eastern Cape (16)

Adelaide - Dr. Steve Cockroft

Alexandria – Dr. Charlene Boy

Alexandria – Dr. Johan Olivier

Aliwal North – Drs. Troskie and Strauss

Bathurst – Dr. Jane Pistorius

Cradock - Dr. Frans Erasmus

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Hobson, Strydom and Hennesy

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

Jeffreys Bay - Drs. Lategan and Hoek

Kareedouw - Dr. Marten Bootsma

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

Steynsburg – Dr. Johan van Rooyen

Stutterheim – Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger

Witelsbos - Dr. Elmien Kotze

#### Western Cape (23)

Beaufort West - Dr. Jaco Pienaar

Beaufort West – Dr. Bennie Grobler

Caledon – Drs. Louw and Viljoen

Caledon - Drs. Retief, Smal and Greyling

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

Darling - Drs. Van der Merwe, Adam, Jenkins and Lord

George - Drs. Strydom, Truter and Pettifer

George - Dr. Riaan Putter

Heidelberg - Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Drs. Bosman and Groenewald

Moorreesburg – Dr. Suenett Kotzé

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn - Dr. Adriaan Olivier

Paarl – Dr. Carla van der Merwe

Piketberg – Dr. André van der Merwe

Plettenberg Bay – Dr. André Reitz

Riversdale – Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – Dr. Alfred Kidd

Swellendam - Drs. Malan and Fourie

Vredenburg – Dr. Izak Rust

Wellington – Drs. Van Zyl and Louw

Worcester - Dr. Kobus Rabe

#### Northern Cape (9)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar - Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley - Drs. Swart, Smith and Hyslop

Kuruman – Dr. Gerhard van der Westhuizen

Postmasburg – Dr. Boeta van der Merwe

Kimberley – Dr. Swart and Hyslop

Upington – Drs. Vorster, Visser and Oosthuizen

#### Feedlots (2)

Dr. Eben Du Preez

Drs. Morris and Le Riche

#### Bovine consultant (1)

Dr. Theo Kotzé - Bloemfonein

#### Laboratory reports (7)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA

Provincial Veterinary laboratory (Dr. Annelie Cloete) - Stellenbosch

Dr. Mark Chimes - Dairy Standard, George

Dr. Sophette Gers – Pathcare, Cape Town

Prof. Emily Mitchell – Wildlife, University of Pretoria

Amanda McKenzie – Vryburg Veterinary Laboratory

### Bovine Brucellosis – the way your cattle become infected with this zoonotic disease!

#### CASE HISTORY: BRUCELLOSIS IN FREE STATE

As a consultant, one of the services I provided for my client, a *national milk buyer*, was to carry out a comprehensive evaluation of the overall management of a new dairy farm when it started supplying milk to that specific milk buyer for the first time. This visit involved spending a full day on the farm.

In this case, the farmer lived on the dairy farm but he and his wife worked daily in a nearby town. Therefore, while at work, the farm/herd was managed by a senior farm labourer who had no formal training.

All the dairy animals in the herd were registered with a dairy breed Society. The local veterinary practice was used for pregnancy checks, emergency cases and routine Tuberculosis testing. A vaccination and parasite control programme, recommended by their veterinarian, was followed. Strain 19 was used for vaccinating heifers but <u>no record</u> was kept as to which animals had been immunised and one was unable to identify which animals had been vaccinated in the past.

From my evaluation, it was evident that the farm was adequately but causally managed with the owners showing a *significant lack of knowledge* of the more detailed aspects of dairy farming and especially the important basic requirements of dairy animal nutrition and prevention of disease. I submitted a comprehensive report to the Milk Buyer regarding my visit and sent a copy to the farm owners. The report included my findings and relevant recommendations.

Subsequently the Milk Buyer's routine monitoring of the milk quality of this farm's milk supply showed a positive *Brucella Milk Ring Test*. The *local state veterinary services* immediately serologically tested all the animals for *Brucellosis*. A few cows were found to be positive. Without going into all the details, the state veterinarian explained to the owners all the legal and health ramifications of the herd now being under quarantine and that no animals were permitted to leave the farm or new animals to be introduced; positive animals were to be *appropriately branded* before being sent for slaughter.

Unfortunately, at that the time, the local state veterinary offices did not have any gas for branding of the Brucellosis positive cows. Within a few days the owners sent a number of younger female animals to the local livestock auction yard and advertised the remainder of the herd for sale. I was made aware of this by way of one of my clients from the area phoning me to inquire about possibly purchasing some of the animals from the auction and the *Milk Buyer* informed me that a *local businessman* was interested in possibly buying the "infected" herd.

My reply to my client wishing to purchase the animals at the *cattle auction* was to ask the *auctioneer* for a *health certificate* for the animals. Apparently, the auctioneer did not supply health certificates and, in this case, couldn't provide a health certificate for the young females in question. On explaining the legal and health importance of the herd being infected to the particular person from the Milk Buyer his reply said was that the milk was pasteurised in any case. I gained the impression that this person was more interested in assisting the businessman in acquiring the herd and thereby retaining the opportunity of obtaining milk derived from this specific breed of dairy cow than rather the significant and far-reaching implications directly associated with the legal/economic/health issues of a *Brucellosis infected herd*.

As it happened, I never went back to this farm. My client didn't buy the animals from the auction but he informed me that the animals were sold. I subsequently heard from another client that the businessman mentioned above had approached him for assistance/advice regarding the feeding problems he was experiencing as he had recently started milking dairy cows which were of the same dairy breed as referred to above. It was highly likely that it was the herd mentioned above as the businessman had initially wanted to buy the herd so as to **START** a dairy enterprise.

There are **number** of very **important LESSONS & PRACTICAL INFERENCES** one can draw from this particular case e.g. **NONE** of the parties, as indicated in **highlighted italics** above, showed **any concern** about the disease or any desire to gain a better insight into the serious economic and health importance of Brucellosis in dairy cows etc.

Below are links that are available for your perusal:

#BrakesonBrucellosis

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

Brucellosis Campaign: What is Brucellosis?

http://nahf.co.za/brucellosis-campaign-what-is-brucellosis-brakesonbrucellosis/

Brucellosis awareness – do you know?

http://nahf.co.za/brucellosis-awareness-do-you-know/

Brucellosis - Have you tested?

http://nahf.co.za/brakesonbrucellosis-have-you-tested/

Brucellosis - Dangers of consuming raw dairy products

http://nahf.co.za/brucellosis-campaign-week-2-brakesonbrucellosis-collaboratetestvaccinate-dangers-of-consuming-raw-dairy-products/

Brucellosis - The silent enemy in humans

http://nahf.co.za/brakesonbrucellosis-brucellosis-the-silent-enemy-in-humans/

Brucllosis - The Trojan Horse for your herd

http://nahf.co.za/brakesonbrucellosis-brucellosis-the-trojan-horse-for-your-herd/

Brucellosis: Is a herd disease

http://nahf.co.za/brakesonbrucellosis-brucellosis-is-a-herd-disease/

Brucellosis: Cattle branding – C=Brucellosis positive

http://nahf.co.za/brakesonbrucellosis-brucellosis-cattle-branding-cbrucellosis-positive/

Brucellosis – Farmer Responsibility

http://nahf.co.za/brakesonbrucellosis-farmer-responsibility/

Brucellosis - Abattoirs

http://nahf.co.za/brakesonbrucellosis-abattoirs/

Brucellosis – Is the consumer at risk for contracting Brucellosis?

http://nahf.co.za/brakesonbrucellosis-is-the-consumer-at-risk-for-contracting-brucellosis/

Brucellosis – Prevention for the Veterinarian and Para-Veterinarian

http://nahf.co.za/brakesonbrucellosis-prevention-for-the-veterinarian-and-para-veterinarian/

#### **BEWARE**

# With good rains that have fallen in many areas of South Africa, have you vaccinated your animals against insect and tick transmitted diseases?

Rift Valley Fever

Wesselsbron disease

Blue tongue

Lumpy skin disease

Ephemeral fever (Three-day-stiff sickness)

African Horse sickness

#### **VACCINATE AGAINST RIFT VALLEY FEVER**

There is no need to describe the seriousness of the disease Rift Valley fever (RVF). Most stock owners (yes, we speak about **all** stock owners as the RFV-virus is reasonably indiscriminate as to what species are affected although to differing degrees). While sheep are the main sufferers, goats, cattle and even in buffalo may be affected. Worst of all, RVF is a zoonosis, meaning people can become infected, mainly by handling sick or dead animals. We suffered the loss of a young State Veterinarian in the Eastern Cape from the disease a few years ago. All this said, it is a very serious and consequently a Notifiable disease.

The last case was reported during May 2018, in Jacobsdal, Free State Province.

For the past number of months, we have seen good news from Colombia University's El Nino, LA Nina Southern Oscillation (ENSO) forecast, where they predict a strong La Nina phenomenon through our rainy season and a neutral sea temperature during our coming winter. We have already experienced the joys of good rains, almost country wide, with the Free State particularly wet and lush. These conditions are ideal for flooding and the formation of pans of water in which the *Aedes* mosquitoes responsible as reservoirs of and transmission of the RVF virus breed and multiply.

The only ways to prevent the disease spreading and infecting livestock are to vaccinate our livestock and to prevent mosquito bites, using products that are registered for the control of mosquitoes (usually deltamethrin containing dips, sprays and pour-ons). Clearly an annual vaccination against the disease is the most effective and easiest route. Onderstepoort Biological products produce, currently 2 vaccines, viz.

**OBP Live RVF vaccine** containing the Smithburn strain. Although it is believed that this vaccine gives protection of longer duration it is still recommended that all animals should be vaccinated annually. **This vaccine should, however, not be used in pregnant animals**.

**OBP killed RVF vaccine**, which needs annual vaccination and is safe to use in pregnant animals. It however, requires 2 initial doses 6 weeks apart making it more expensive and labour intensive to administer.

Ideally, vaccination should have already been carried out in early spring, but it is not yet too late. Time is now, however of the essence as most outbreaks begin mid- to late Summer.

Do yourself and the country a good turn for new year, vaccinate your stock against Rift Valley fever as soon as physically possible.

A message from the from the National Animal health forum and the Afrivet technical team, a sponsor of the NAHF.

7 January 2021

#### **ENT IN TEEN SLENKDALKOORS**

Dit is nie eers nodig om die belangrikheid van Slenkdalkoors (SDK) te beskryf nie. Meeste vee-eienaars (ja, ons praat van ALLE vee-eienaars) moet teen SDK inent omdat SDK-virus nie diskrimineer teen watter spesie dit aansteeklik is nie, alhoewel die siekteverloop mag verskil. Skape word die ergste aangetas, maar bokke, beeste en selfs buffels kan die siekte opdoen. Die ergste van alles is dat SDK 'n soönose is, wat beteken dat mense besmet kan raak, hoofsaaklik wanneer hulle siek of dooie diere hanteer. 'n Paar jaar gelede het 'n jong Staatsveearts in die Oos-Kaap weens SDK gesterf. Dit beklemtoon dat SDK 'n ernstige en aanmeldbare siekte is.

Die laaste geval van SDK in Suid-Afrika was gerapporteer gedurende Mei 2018, te Jacobsdal in die Vrystaat.

Gedurende die laaste paar maande het ons goeie nuus vanaf die Colombia Universiteit se **El Nino, LA Nina Suidelike Ossilasie (ENSO)** navorsingsprogram ontvang waar hulle 'n sterk La Nina verskynsel deur ons reënseisoen met neutrale seetemperature gedurende die komende winter voorspel. Ons het alreeds die vreugde van goeie reënval oor groot gebiede van die land ontvang. Die Vrystaat veral is nat met geil weidings. Hierdie toestande is ideaal vir vloede en die totstandkoming van panne water waarin Aedes muskiete, wat dien as reservoirs en draers van die SDK-virus, uitbroei en vermeerder.

Die enigste manier om die siekteverspreiding en besmetting van lewende hawe te voorkom, is om diere in te ent teen SDK en om muskietbyte te verhoed deur produkte te gebruik wat geregistreer is vir die

beheer van muskiete (gewoonlik dippe, sproeie en opgietmiddels wat deltametrien bevat). Vanselfsprekend is jaarlikse inenting teen die siekte die effektiefste en maklikste roete om uitbreke te voorkom. Onderstepoort Biologiese Produkte vervaardig tans 2 entstowwe:

**OBP Lewende SDK entstof** wat die Smithburn-stam bevat. Alhoewel daar geglo word dat hierdie entstof 'n lang periode van beskerming bied, word dit sterk aanbeveel dat jaarlikse inenting geskied. Moet nie die entstof tydens SDK uitbreke gee nie aangesien rekombinasie met die veldstam kan geskied en die uitbreek vererger! **Hierdie entstof moet nie vir dragtige diere gegee word nie.** 

**OBP geïnaktiveerde SDK entstof**, wat 'n jaarlikse inenting benodig en veilig is om in dragtige diere te gebruik. As diere die eerste keer ingeënt word, word 2 dosisse 6 weke uitmekaar gegee, wat die inenting duurder en meer arbeidsintensief maak.

Ideaal gesproke moes die entstof reeds in die vroeë lente toegedien gewees het, maar dit is nog nie te laat nie. Tyd vir toediening is nou egter van die grootste belang aangesien die meeste uitbreke in die middel en laat somer plaasvind.

Bewys jouself en die land 'n guns in 2021 deur jou lewendehawe so gou doenlik in te ent.

'n Boodskap van die Nasionale Dieregesondheidsforum en die Afrivet tegniese span wat 'n borg is van die NDGF

7 Januarie 2021

#### **Biosecurity guidelines**

http://nahf.co.za/wp-content/uploads/FMD-Basic-Biosecurity-Guidelines-2019-11-19-Ver-3-1.pdf

- 1. During a FMD outbreak it is the producer's responsibility to keep their animals from getting infected.
- 2. Although FMD does not pose a food safety or public health concern it has a major impact on animal health and international trade.
- 3. Each commercial farm should appoint a biosecurity manager.
- 4. A written biosecurity plan is a basic requirement.
- 5. Development of a plan must be done by the biosecurity manager with assistance from a veterinarian.
- 6. The biosecurity plan must include a line of separation/demarcation of the biosecurity area.
- 7. Training:
- a. Train all personnel in biosecurity principles at least annually.
- 8. Access: a. Access points to the area must be identified and demarcated clearly.
- b. Loading site must be identified away from animals.

- c. A cleaning and disinfection station needs to be made available and should be away from any animals and an SOP for cleaning of all vehicles entering the biosecurity area must be adhered to.
- d. Parking areas away from animal areas must be provided.
- e. Vehicle movement pathways must be mapped.
- f. Draw up a map demarcating all these areas.
- g. The control boundary should always be respected and identified to all personnel.
- h. No access of vehicles or personnel to the biosecure area unless via proper decontamination protocols. People with any suspected contact with infected animals (or having been in an affected area) should stay away from "clean animals for at least a week.
- i. Access points should be respected, well demarcated and procedures of access described. Biosecurity Guidelines-FMD 2019-11-19 2
- j. Animals arriving on the farm should only be directly from a guaranteed healthy herd accompanied by signed and dated veterinary health certificates.
- k. Personnel entering the biosecure area should shower and change clothing before entering the area.
- I. Logbooks of all persons, vehicles, equipment etc entering or leaving the biosecure area should be kept.
- m. No entry of persons, vehicles or products should be allowed if not expressly permitted by the biosecurity officer.
- n. Feed brought into the biosecure area should only be from sources determined by the biosecurity manager.
- o. For further information go to www.securebeef.org
- 9. Quarantine:
- a. For extra security cattle should be quarantined at least 100 meters for 21 days away from the herd.
- b. There will be absolutely no contact with the herd either directly or indirectly.
- c. They should only be introduced after clinical (and preferably serological) evaluation.

It is now the time that we take ownership of our own industry!!!!!!!

The basis of Disease Control is Animal Identification and Tracebility

Visit: https://www.icar.org/index.php/certifications/animal-identification-certifications/

# Very important legislation regarding the biosecurity rules for livestock agents

http://nahf.co.za/biosecurity-rules-for-livestock-agents-gazetted-13-november-2020-no-43900-board-notice-135-of-200/

http://nahf.co.za/wp-content/uploads/Biosecurity-Rules-for-Livestock-Agents-Gazetted-13-November-2020-No-43900-Board-Notice-135-of-200.pdf

#### **BACKGROUND and DEFINITIONS:**

These rules will regulate the livestock agent's industry with specific reference to required precautions to take during the gathering of live animals at auctions to reduce the risk of the spreading controlled, notifiable and other animal diseases.

In summary, each livestock agent/auctioneer will comply with the following:

- a) The rules for auctions in this document.
- b) Registration with the Agricultural Produce Agents Council (APAC) is compulsory and only registered agents will be allowed to conduct business.
- c) Acceptance of responsibilities in terms of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984. This gazette is also available free online at www.gpwonline.co.za 206 No. 43900 GOVERNMENT GAZETTE, 13 NOVEMBER 2020
- d) An external audit of the auction facilities and all procedures, including these rules for auctions, will be undertaken by an independent auditor, these audits will need to be submitted to APAC bi-annually.
- e) Every livestock agent must appoint a Biosecurity practitioner (a person registered with the South African Veterinary Council).
- "Biosecure area" is the area where only animals whose documentation has been verified, identification and health status has been confirmed by a SAVC qualified person, i.e. animals unlikely to pose a significant risk of carrying any contagious disease-causing agents, as well as persons who have been decontaminated to the satisfaction of a biosecurity practitioner are allowed to enter;
- "Biosecurity practitioner" a person registered with the South African Veterinary Council, who oversees compliance with minimum biosecurity requirements for animals from different origins congregating for auctioning, in line with the requirements of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984 and the rules in this document:
- "Animal Owner Health Attestation" is a signed declaration from the owner of the animals that attests: This gazette is also available free online at www.gpwonline.co.za STAATSKOERANT, 13 NOVEMBER 2020 No. 43900 207 3

- The name and location of the farm/area of origin.
- The absence of overt signs of disease and parasites.
- The absence of unexplained mortalities on the property of origin in the preceding 28 days.
- No new animal introductions to the property of origin in the preceding 14 days.
- Where possible, and especially during periods of disease control restrictions in specific localities, confirmation of this health status by the farm's attending veterinarian is ideal, see Addendum A of this document.

#### **Identification of animals**

- a) All animals accepted at an auction must be properly and permanently marked with the owner's registered mark in accordance with the Animal Identification Act, Act 6 of 2002, and regulations published in Government Gazette no 25732 of 21 November 2003.
- b) Animals without registered marks shall not be off-loaded at the biosecure area.
- c) No freshly branded animals may be accepted.
- d) No animals with wet paint marks of previous auctions may be accepted within 28 days after the previous sale.
- e) No branding or marking of animals is allowed on the auction premises.
- f) The auctioneer must ensure the registered brand belongs to the owner, check the brand marking certificate and ID of the owner and driver/transporter where applicable and to follow up any suspicious brands with the local Stock Theft Unit. The livestock agent must insist on a confirmation of their reporting of the noncompliance with the Stock Theft Act and keep these on record
- g) The ear tag / identity tag for each animal's individual identification as per the Livestock Identification and Traceability System, shall correspond with the list of animals in the Original Animal Owner Health **Attestation**.

#### Checking animals arriving at auctions

All animals must, upon arrival, be checked for lesions or clinical signs of disease or external parasites. In addition, animals shall be checked for official marks/brands indicating any of the controlled animal diseases such as Brucellosis, Tuberculosis and Foot and mouth disease. If there is any suspicion of any infectious disease, please refer to section 10 below.

#### Summary of disease report for December 2020

147 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 13; Gauteng (G) 11; Limpopo (L) 7; Northwest (NW) 16; Free State (FS) 30; KwaZulu-Natal (KZN) 12; Eastern Cape (EC) 16; Western Cape (WC) 23: Northern Cape (NC) 9; Feedlots (FL) 2; Bovine consultant (MC) 1 and Laboratories (Lab) 7)

Look at this list – these are the most reported diseases, reported by veterinarians.

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

	Number of provinces reporting
Wireworms	9
Coccidiosis	9
Blue ticks	9
Eye infections	9
Dystocia	9
Asiatic red water	8
Anaplasmosis	8
Abscesses	8
Diarrhoea	8
Lameness/foot problems	8
Mastitis	8
Roundworms	7
Cryptosporidiosis	7
Brown ear-ticks	7
Bont-legged ticks	7
Ephemeral fever (Three Day Stiff Sickness)	7
Blue tongue	7

Bovine brucellosis   7	Pulpy kidney	7
Warts       7         Ringworm       7         Abortions       7         Joint ill       7         Pneumonia       7         Downer       7         Retained afterbirth       7         Uterine prolaps       7         Tapeworms       6         Nuisance flies       6         Midges       6         African red water       6         Heartwater       6         Lumpy skin disease       6         Trichomonosis       6         Bovine dermatophilosis (Senkobo disease)       6         Pasteurellosis       6         Rotavirus       6	Bovine brucellosis	7
Ringworm       7         Abortions       7         Joint ill       7         Pneumonia       7         Downer       7         Retained afterbirth       7         Uterine prolaps       7         Tapeworms       6         Nuisance flies       6         Midges       6         Nasal bot larvae       6         African red water       6         Heartwater       6         Lumpy skin disease       6         Trichomonosis       6         Bovine dermatophilosis (Senkobo disease)       6         Pasteurellosis       6         Rotavirus       6	E. coli	7
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Joint ill	Ringworm	7
Pneumonia         7           Downer         7           Retained afterbirth         7           Uterine prolaps         7           Tapeworms         6           Nuisance flies         6           Midges         6           Nasal bot larvae         6           African red water         6           Heartwater         6           Lumpy skin disease         6           Trichomonosis         6           Bovine dermatophilosis (Senkobo disease)         6           Pasteurellosis         6           Rotavirus         6	Abortions	7
Downer         7           Retained afterbirth         7           Uterine prolaps         7           Tapeworms         6           Nuisance flies         6           Midges         6           Nasal bot larvae         6           African red water         6           Heartwater         6           Lumpy skin disease         6           Trichomonosis         6           Bovine dermatophilosis (Senkobo disease)         6           Pasteurellosis         6           Rotavirus         6	Joint ill	7
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	Pasteurellosis	6
Orf 6	Rotavirus	6
	Orf	6

Navel ill	6
Trauma	6
Vaginal prolaps	6
Lightning	6
Cysticercosis (measles)	5
Heartwater ticks	5
Red-legged ticks	5
Sweating sickness	5
Selenium deficiency	5
Bloat	5
Blue udder	5
Eye cancer	5
Poor conception	5

#### **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.

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

# 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		Yes	No
	farms in my area are free of Bovine Brucellosis			
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: .....

with other cattle

Signature:		
Date:		
** * Biosecurity		
Poor – speculates with cattle, does not vaccinate, poor fences, cattle come	into	contact

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

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

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

#### OVINE JOHNE'S DISEASE VENDOR DECLARATION

#### ON THE SALE OF SHEEP

(Updated Draft May 2015)

1.	I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.	YES	NO
2.	The sheep for sale are clearly identified in the accompanying description.	YES	NO
3.	The sheep for sale were born on my farm.	YES	NO
4.	The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)	YES	NO
5.	I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.	YES	NO
6.	I have actively looked for Ovine Johne's Disease and have had tests done for this.	YES	NO
7.	To the best of my knowledge, my immediate neighbours and farms in my magisterial district of my farm(s) are free of cases of Ovine Johne's Disease.	YES	NO
8.	The sheep on my properties have been vaccinated against Ovine Johne's Disease and are clearly marked with the approved ear tag.	YES	NO
9.	All lambs born are vaccinated	YES	NO
10	I.If vaccinated, the number of years that the vaccinations have been done is		years
NC	OTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers		
Sta	atement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to of	ther inf	ected
	cks by law.		
Bu	yers should consult their veterinary advisor before any purchases.		
_		_	
Sig	gnature Date		
NΑ	ME Farm:	_	
	District:		
	WNER OR AUTHORIZED PRESENTATIVE	_	
	a use at this declaration is supported by the following assentians:		













### **SOP** for the control of Bovine Brucellosis

Audit date:	
Authorised person:	

		Y/N	Comment
1	Fences and gates in good condition		
2	Gate control - log in		
3	Disinfection of vehicles coming onto the farm		
4	Protective clothing and boots given to people		
	visiting the farm (cattle area) coming from high		
	risk areas eg. veterinarians, nutritionists,		
	representatives, truck drivers, workers, etc.		
5	Sterilizing equipment coming in contact with cattle		
6	Run off water/ streams from neighbouring farms		
7	All animals identified with a brand mark and ear		
	tag		
8	Data base of all animals		
9	Closed herd		
10	When last were animals bought in or moved from		
	another farm?		
11	Only buy in animals from a farm which has a		
	recent negative tested brucellosis herd certificate		
12	Origin(s) of acquired cattle? Bought at an auction?		
13	Keep heifers separate from herd until they have		
	calved and tested negative for brucellosis		
14	Quarantine camp available		
15	Separate calving camps		
16	Were all heifers vaccinated between 4 and 8		
	months vaccinated with Strain 19 or RB51?		
17	Any cattle vaccinated with Strain 19 over 8 months		
	of age? History over last few years.		
18	Were there any abortions on the farm – samples		
	taken, diagnosis?		
19	All sexually mature cattle in herd tested for bovine		
	brucellosis (provide proof)		

20	Bovine brucellosis is a State controlled disease.	
	Positive cattle are branded with a C on the right	
	side of the neck.	
21	Isolation of infected animals & separate handling	
	facilities	
22	Prohibition of movement of animals off	
	quarantined property except under cover of a Red	
	cross permit for slaughter at an abattoir	
23	Prohibition of use and on-farm disposal of	
	unboiled, unpasteurised or unsterilised milk on	
	quarantined property	
24	Disinfection of places where infection is a	
	possibility.	
25	Neighbours/ recent buyers informed of infected	
	herd status	
26	Fly, crow and predator control	
27	Destruction of afterbirths/abortions in a	
	responsible manner	
28	Beware of livestock, game interface	

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

#### **National Animal Health Forum**

www.nahf.co.za

Read what the Forum is all about:

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

This website will become the information centre of animal health in Southern Africa. On the toolbar click on **Stakeholders** and you will find links to producer organizations and other organizations who are participating in the NAHF <a href="http://nahf.co.za/stakeholders/">http://nahf.co.za/stakeholders/</a>

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

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

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

Click on **Info centre** for more information on the "war" we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease. http://nahf.co.za/category/diseases/brucellosis/ Information on other controlled diseases (Foot and Mouth Disease, Ovine Johne's Disease, Pest of small stock – PPR, and African Horse Sickness) is available.

This link will continuously be updated.

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

#### **Rural Veterinary Association of South Africa**

#### www.ruvasa.co.za

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

#### Landbouweekblad's webpage

www.landbou.com

**Kundiges** 

**Vra vir Faffa** 

Lees alle antwoorde

**Beeste** 

**Siektes** 

**Brusellose** 

#### The following can be typed in the "Soekblokkie"

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

### 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 and heifers against brucellosis!

# For the detailed report and previous reports go to <a href="www.ruvasa.co.za">www.ruvasa.co.za</a> and click on Disease reporting

#### **Internal parasites**

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

Internal parasites	MP	G	L	NW	FS	KZN	EC	wc	NC
Roundworms	х	х		х	х	х	х	х	
Resistant roundworms		х			х	х			
Wireworm	х	х	х	х	х	х	х	х	х
Brown stomach-worm							х	х	
Long-necked bankruptworm									
White bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm					х				
Parafilaria	х	х		х		х			
Tapeworms	х	х	х		х	х	х		
Liver fluke					Х	х		х	
Conical fluke		х			Х	х			
Cysticercosis (measles)	х	х	х					х	Х

Schistosomiasis (bilharzia)									
Coccidiosis	х	х	х	х	х	х	х	х	х
Cryptosporidiosis	х	х		х	х	х		х	х
Giardia									

Good summer rains fell in most areas of the country and temperatures rose which favours the hatching of eggs of most internal parasites. Sheep farmers can be caught unaware. Check for clinical signs of parasitism such as anaemia, bottle jaw, weight loss and diarrhoea.

Wireworm outbreaks have been reported from all 9 provinces.

#### **BEWARE**

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

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

Get advice from your veterinarian to ascertain which dewormer group(s) are still effective on your farm

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

Coccidiosis outbreaks were reported from 9 provinces. Young animals are most susceptable.

Cryptosporidiosis outbreaks, causing huge losses were reported from 7 provinces. A product has been registered to treat animals against this deadly parasite. Good colostrum protects new born animals. Biosecurity should be practised at all levels on the farm.

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs\_l=img.1.1.0l10.2885.9850..16402...0.0.0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric

#### **Prevention of Cryptosporidiosis**

Prevention is the best control method.

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

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

Ensure no nutritional deficiencies especially vitamin A and Selenium

Excellent bio-security management

Ensure clean pathogen free water sources

Hygiene training of personnel

Consult your veterinarian

#### **SOLUTION**

#### HOLISTIC INTERNAL PARASITE MANAGEMENT FOR SHEEP AND GOATS

#### Gareth Bath, Jan van Wyk and Faffa Malan

#### INTRODUCTION

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

For a start, we have to abandon the underlying philosophy that internal parasites are an evil plague which should be maximally suppressed, or preferably eradicated. We have

to learn to live with parasites, and prevent only the unacceptable production losses, while simultaneously breeding animals fit for the environment, rather than making the environment fit for existing animals. By regarding parasites as part of the natural order of things, we will be able to see them simply as potential problems to be managed in order to achieve optimum productivity and profitability.

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

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

#### **WORM MANAGEMENT PRINCIPLES**

#### A FLOCK MANAGEMENT REQUIREMENTS

#### **Separation of Groups**

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

#### Identify the groups most at risk

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

#### Separation of pastures

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

#### **Resting of pastures**

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

#### Alternation of host species

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

#### Mend water leaks

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

#### Avoid grass in pens

Where sheep or goats have to be penned for lengthy periods (usually at night, to combat theft or predation) there can be a fatal buildup of larvae on the grass growing there. Sheep become hungry overnight and will eat these morsels of food. In consequence they

will ingest massive numbers of larvae. It is therefore necessary to remove all grass from such pens.

#### Fence off moist areas

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

#### Strategic movement of flocks

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

#### **Quarantine and treatment**

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

#### **B** GENETIC SELECTION

#### Selection for resistance

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

#### Selection for resilience

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

farmer to cull the non-copers, in the long term thus being able to breed an animal better adapted to the environment.

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

#### **C** MONITORING SYSTEMS

#### **FEC**

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

#### **FECRT**

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

#### FAMACHA® evaluation

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

#### D OPTIMISE ANTHELMINTIC USE

#### Establish the important parasites species present

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

#### Use the most suitable drug

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

#### **Avoid too frequent treatment**

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

#### Treat all and stay

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

#### **Treat selectively**

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

#### Move then treat

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

#### **Herbal Remedies**

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

#### E IMPROVED ANTHELMINTIC EFFICACY

#### Dose over the tongue

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

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

the dose can land up the lungs, and cause pneumonia the nozzle of the dosing gun can penetrate he pharynx and cause severe, fatal infection. If the sheep jumps forward, the operator must let the gun 'ride' with the sheep, and not oppose it, and the dose must be delivered by a measured, steady pressure rather than a single squeeze.

#### Reduce feed intake

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

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

#### Repeat the dose

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

#### Increase the dose

This only applies to drugs which rely mainly on peak concentrations for their effect. In this case, a double amount of drug given at one time can overcome drug resistance in worms. This is useful for the imidasothiazoles (levamisole). There is however a relatively low safety margin, only 2x - 3x the therapeutic dose may sometimes cause problems of toxicity.

#### Correct dosage

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

#### **Drug combinations**

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

#### **Sustained delivery**

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

#### **Goats are different**

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

#### F EFFECTIVE PLANNING

#### Use the expert

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

#### Use a programme

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

#### **Flexibility**

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

# Treatment strategy

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

#### II OTHER MEASURES AND FACTORS

# **Protein supplementation**

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

#### **Condition scoring**

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

# Weather monitoring

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

# Flock/Herd history

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

# **Veld/pasture assessment and history**

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

#### Assessment and decision support computer programmes

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

#### III CONTROL MEASURES UNDER DEVELOPMENT

# Predacious fungi

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

# Dilution of resistance

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

#### Vaccination

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

#### **Condensed Tannins**

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

#### **Cupric oxide**

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

#### Change in body weight

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

# IV INTEGRATED PARASITE MANAGEMENT

If any of the foregoing principles are used exclusively, failure will be certain. It is only by using a prudent mix of strategies that sustainable, cost-effective measures can be established. The decision on which measures are to be used in a given situation can only be made by an expert who is conversant with local conditions. This programme will of course have to be drawn up in close consultation with the livestock owner(s).

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

#### V ACTION CHECKLIST

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

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

Make sure that the farmer understands and supports the need for change Ensure that all measures are practical, integrated and financially defensible Use an incremented approach, do not try to do everything at once Evaluate and use knowledge in stock flow, reproductive programme, grazing systems, pasture or veld conditions and weather to decide on appropriate and integrated worm management actions. Are the groups/classes of animals properly separated? If not, implement this if possible.

Give weanlings and late pregnant/lactating ewes most attention and the best circumstances

Are the pastures properly fenced, and are there enough camps for effective management?

Implement a satisfactory pasture resting programme. Keep well rested pastures for susceptible groups

Graze camps sequentially by cattle, small stock and other host species if available Make sure that animals are getting the right nutrition, especially protein, and avoid putting animals in poor condition onto high risk pastures

Mend water leaks and fence off moist areas

Remove all grass from pens where animals are routinely held for long periods Buy rams selected for resistance (FEC) and/or resilience (FAMACHA®/haematocrit) Cull the minority of ewes which are unable to cope with prevailing parasite burdens Institute a planned programme for FECs to monitor the parasite situation

Ensure that the FECRT is done every second year

Introduce TST and Institute the FAMACHA® system for haemonchosis or BCS for other worm species

Ensure that the types and relative importance of parasites have been established on each farm as well as when they are likely to occur

Select and use the best drug for each situation

If all animals are treated, do not move to new pastures for 2-3 weeks or longer depending on the drug and formulation used

Ensure that the drug used is given in the most effective way

Quarantine and treat all introductions and put them onto infected pasture

Stick to what is possible in a given situation

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

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

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs\_l=img.1.1.0l10.2885.9850..16402...0.0.0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric

# **External parasites**

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

External parasites	MP	G	L	NW	FS	KZN	EC	wc	NC

Blue ticks	х	x	х	х	х	х	х	х	х
Resistant blue ticks						х			
Heartwater ticks	х	х	х	х		х			
Brown ear-ticks	х	х	х	х	х	х		х	
Bont-legged ticks	х		х	х	х	х	х		х
Red-legged ticks	х			х	х	х	х		
Paralysis ticks				х	х				
Tampans				х					
Biting lice					х				
Sucking lice									х
Fleas									
Itch mites									
Sheep scab				х					
Mange mites	х	х		х	х				
Nuisance flies	х	х		х	х	х		х	
Midges	х	х		х	х	х		х	
Mosquitoes		х		х	х				х
Blowflies	х	х			х	х			
Screw-worm	х	х	х						
Gedoelstia (uitpeuloogsiekte)									
Nasal bot	х	х		х	х	х			х

After the good rains that fell in many areas an explosion in tick numbers was reported!

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

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

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

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

Screw-worm infestation will be rife after tick damage.

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.

Now is the time to update your management programme with the help of 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	
Asiatic red water	х	х	х	х	х	х	х	х	
Anaplasmosis	х	х	х	х		х	х		
Heartwater	х	х	х	х		х	х		
Lumpy skin disease	х	х		х	х	х		х	
Corridor disease									
Theileriosis									

Asiatic red water is spreading and is one of the deadliest diseases in cattle (6 provinces).

Numerous mortalities were reported!

Anaplasmosis outbreaks were reported from 6 provinces. Biting flies are the main transmitters of this disease.

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

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

#### **Tick toxicosis**

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

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

#### Insect transmittable diseases

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

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

Vaccines are available, the only reason why there were so many outbreaks of lumpy skin disease, blue tongue and three-day-stiff sickness last season, could have been that animals were not vaccinated or that the cold chain was broken! Now is the time (maybe too late) to ensure that your animals are protected against insect borne diseases. I have a feeling that Rift Valley Fever is going to be with us this year!

If an abortion storm occurs, inform your veterinarian immediately!!!

# You still have a chance to vaccinate – when outbreaks occur sufficient stocks of vaccines may not be available.

#### Venerial diseases

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

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

# **BEWARE**

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

Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis (6 provinces).

Venerial disease is a HERD disease! Calculate your losses if these diseases are not eradicated on your farm!

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 to your farm.

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

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

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

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

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

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

# **Bacterial diseases**

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Anthrax									
Blackquarter	х	х		х	х	х		х	
Clostridial disease									
Botulism				х					х
Pulpy kidney	х	х		х	х		х	х	х
Lamb dysentery					х				
Swelled head		х	х		х	х		х	
Red gut (cattle)	х				х	х		х	
Blood gut (sheep)								х	х
Tetanus			х	х	х			х	
Salmonellosis	х			х		х			
Klebsiella									
Bovine brucellosis	х	х	х	х	х	х			х
Brucella melitensis (goats)									
Ovine brucellosis (Ram's disease)							х		
Bovine tuberculosis									
Johne's								х	
Leptospirosis									

	х	х		х	х	х	х	
х				х				
				х			х	
х	х	х	х	х	х		х	
				х		х		
х	х	х		х	х		х	
	x	x x	x x x	x x x x	x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x	x x x x x x x x x x x x x x x x x x x

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 inactivated 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.

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

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

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

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

#### PREVENTION IS BETTER AND CHEAPER THAN TREATMENT!

# Do not save yourself bankrupt!

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

#### Viral diseases

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

Viral diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
BMC (snotsiekte)		х			х				
Rabies (cattle)									
BVD		х			х				
IBR		х							
BRSV									

PI3								
Maedi visna virus								
Rotavirus	х	х	х	х	х		х	
Coronavirus					х			
Enzootic bovine leucosis (EBL)				х	х		х	
Sheep leucosis								
Jaagsiekte								
Orf		х	х	х	х		х	х
Warts	х		х	х	х	х	х	х
Herpes mammillitis - goats								

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.

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

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

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

Discuss vaccination programmes and biosecurity measures with your veterinarian.

Orf (vuilbek) is a zoonosis.

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

# **Fungal diseases**

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

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

# **Protozoal diseases**

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

# **Toxicities**

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	WC	NC
Cardiac glycoside		х							х
Slangkop									
Crotalaria									
Gifblaar									
Gousiekte									
Wilde dadel									
Cestrum (ink berry)					х		х		
Tulip	х				х				х
Cynanchum (bobbejaantou)									
Facial eczema					х	х		х	
Lantana		х	х			х			
Prussic acid	х				х			х	х
Damkweek (cyanide)									
Acacia nilotica									

Senecio					
Cotula nigellifolia (stagger wood)					
Geeldikkop (duwweltjies) and dikoor				х	
Vermeersiekte		х			
Misbek (plant poisoning)					
Hertia pallens (Nenta, krimpsiekte)					
Chrysocoma ciliata (bitterbos)					
Crotolaria (stywesiekte bossie)					
Solanum incanum (maldronksiekte)					
Gnidia burchelli (Januariebos, besembossie, harpuisbos))					
Gomphocarpus (Asclepias) fruticosus (milkweed)					
Heliotropium (potato weed)					
Bracken fern					
January bush (Gnidia polycephalatus)					
Chinkerinchee					
Ceylons rose					
Datura		х			
Sarcostemme viminale (melktou, caustic bush)					
Malva parviflora (kiesieblaar)					
Bitou					
Cotula nigellifolia (Stagger weed, stootsiektebossie)					
Eucalyptus (bloekom) bark/leaves					

	_	1	1	1	1	ı	ı	ı
Kikuyu								
Ryegrass								
Grass staggers								
Lush pastures (Dikkop)								
Lasiospermum (Ganskweek)						х		
Paspalum staggers								
Phalaris aquaticum (Phalaris staggers)								
Photosensitivity (Turksnaald, Erodium								
moschatum)								
Photosensitivity (Stellenbosch)								
Photosensitivity								
Swelled head (Dikkop) toxicity)								
Lusern								
Mycotoxicosis					х			
Apergillus								
Aflatoxin								
Diplodiosis				х				
Lupins								
Soya								
Syringa berries								
Acorn								
Cycad								
Kraalbos, Geelbos (Galenia africana)								
Radish								
Carrot poisoning								

Onion poisoning						
Bracken fern						
Pollen beetle (Astylus atromaculatus)						
Water contamination						
Oxalates						
Nitrate						
Amaranthus						
Tannins						
Urea						
Salt						
Snake bite	х		х		х	х
Bee stings						
Moth cocoons (impaction)						
Blue green algae						
Copper						
Selenium						
Zinc						
Zinc sulphite						
Fluoride						
Lead						
Alcohol poisoning						
Paraquat						
Discouring						
Phosamine Aldicarb						

Organophosphate					
Zinc phosphide					
Xanthium					
Pyrethroid					
Amitraz					
Levamisole					
Ivermectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
Ionophor					
Monensin					
Нуро					
Diazinon					
Glyphosate					
Chicken litter					
Medicated maize seed					

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

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

Urea poisoning occurs every month on some farms. Make sure that licks containing urea are mixed and formulated properly. Many mortalities were reported where mixing instructions and calculations were not followed correctly!

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

#### **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	
Protein	х							х	
Phosphate							х		х
Calcium	х						х	х	

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

We are thankfull for rains that fell in most areas of the country but there are still some areas where drought conditions are still present! We pray with you for rain!

# 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
lodine									
Copper	х	х				х			
Zinc		х				х			
Selenium	х	х		х	х	х			
Magnesium					х		х		
Manganese									
Vitamin A				х	Х				

Vitamin B 1					

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 and Zinc during winter and drought conditions.

# Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	wc	NC
Abortions	х	х		х	х	х	х	х	
Stillbirths	х				х				
Abscesses	х	х		х	х	х	х	х	х
Intestinal ulcers									
Bladder stones –urolithiasis					х				
Blindness	х				х			х	х
Bloat	х				х	х		х	х
Blue udder	х			х	х	х		х	
Diarrhoea	х	х		х	х	х	х	х	х
Epididymitis	х							х	
Eye cancer		х			х		х	х	х
Eye infections	х	х	х	х	х	х	х	х	х
Skin lymphoma									
Joint ill	х			х	х	х	х	х	Х

Cystitis									
Icterus									
Lameness/foot problems	х	х		х	х	х	х	х	х
Lung infection	х	х		х	х	х		х	х
Mastitis	х	х		х	х	х	х	х	х
Navel ill	х	х		х	х	х		х	
Umbilical hernia									
Red gut (sheep, torsion of gut)								х	
Rectal prolaps		х							
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid synrome									
Swelsiekte									
Traumatic reticulo-pericarditis		х			Х				
Trauma	х	х			х	х		х	х
Teeth wear									
Plastic bags (ingestion)									
Downer	х			х	х	х	х	х	х
Poor condition									
Anaphylactic shock									
Immune incompetance							х		
Vestibular syndrome (middle ear infection)					Х				
i	1	1	<u> </u>	L		·	·	1	

Hernia					
Deformaties					
Wet carcases at abattoir				х	х
Yellow carcases at abattoir				х	х

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.

# **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	
Displaced abomasum						х		х	
Ketosis (Domsiekte)						х		х	
Milk fever						х		х	х

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

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

# **Reproductive diseases**

Reproductive diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Dystocia (difficult births)	х	х	х	х	х	х	х	х	Х
Endometritis					х			х	
Metritis		х		х	х			х	

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

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

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

# **Environmental conditions**

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

# **Other conditions**

	MP	G	L	NW	FS	KZN	EC	WC	NC
Dermatosparaxis					х				
Genetic disorders						х			
Drug residues (milk, meat, liver, kidney etc)									
Preditors					х				х
Theft/Sabotation				х	х	х			
Trauma (fractures etc)		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

Beestekraal – Dr. Alwyn Venter Calvinia – Dr. Bertus Nel Cape Town Dr. Sophette Gers Ermelo – Dr. Ben Potgieter George – Dr.Mark Chimes Kareedouw – Martin Bootsma

Malalane - Drs. Van Sittert and Van Sittert

Piketberg – Dr. André van der Merwe

Postmasburg – Dr. Boeta van der Merwe

Pretoria - Dr. Liza du Plessis

Stellenbosch (Elsenburg) – Dr. Annelie Cloete

Swellendam – Dr. Jacques Malan

Vanderbylpark- Dr. Kobus Kok

# Ostriches

# Western Cape

# Oudtshoorn

Bont-legged ticks	2
E. coli	3
Protein, Energy deficiency, poor growth	3- High temperature – leads to high water intake – and low feed intake. Drought results in severe brackish, stale water - high salt and alge growths. Producers are using hominy chop but not well aware of quality issues. Resulting in feed refusal and poor growth. Still some very cold weather resulting in mortalities
Phosphate deficency	2
Selenium deficiency	3
Rectal prolaps/	3 -Soil pica and heat stress = cryptosporidium overgrowth
Cryptosporidium	
Dysbacteriosis	3 - More now with the intense heatwaves periods - chick season, spill over of nutrients diarrhoea
Red gut	3 - On planted pastures – small grain, severe temperature fluctuations birds eating and then not
Mycoplasmosis	3 - Severe wind and dust – drought and season change Airsacculitis, wind cold, poor body condition. Temperature fluctuations/ dust/ cold – increased moist rales, rhinitus and sinusitis, more pronounce post cold spell.
Diarrhoea	3 - Intensive systems with breakdown in potable water supply/inappropriate management.

Soil pica	3 - Adaption to intensive feeding in wet weather = moist areas in camps and soil pica/ bored as there is no grazing, fine pelleted feed
Weakness	3 - Poor starters of day old chicks. Protein and energy deficiency –chicks more severely affected, insufficient time to feed (daylight/ high temp), high demand for energy (cold evenings), underlying infections chronic enterotoxaemia.
Vitamin A and E deficiency	3 - High oxydative protoection for feed is required, absence of adding premix and heat results in muscle lesions, paralysis.

# **Equines**

# Mpumalanga

Lydenburg

Red-legged ticks-3

Nuisanc flies - 3

Middelburg

Gastrodiscus - 1

# Gauteng

Rayton

Theileriosis - 1

Colic - 3

# Limpopo

Bela-Bela

Abscess – 1 Due to tick bites

Laminitis – 1 After foaling

# **North West**

# Schweizer-Reneke

Ticks – Brown ear-tick and red-legged tick infestations in game

# Game

Mpumalanga

Lydenburg

Wireworm - 3

# Free State Smithfield

Rabies - Aardwolf

Eastern Cape
Humansdorp
Helminths – Sables - Heavy burdens in sub-adult population (2 farms)
Ticks – Sables - Heavy burdens in sub-adult population (2 farms)
Cryptosporidiosis – Black wildebeest calves – diarrhoea, died

# Monthly report on Livestock and Wildlife isolations for December 2020 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

There were two cases of *Clostridium novyi* myositis in farm animals, one in cattle and one in sheep. *Pasteurella multocida* was isolated from bovine pneumoniae. *E. coli* caused septicaemia in a calf. Abortion was due to *Trueperella pyogenes* and *Brucella abortus*.

Enteritis in cattle was associated with *Salmonella* Typhimurium, *Clostridium perfringens* and *E. coli* [5 cases]. One of the isolates was tested for virulence factors and was found to be positive for 4 different virulence factors all associated with Enteropathogenic *E. coli* [EPEC]. EPEC isolates cause chronic, watery diarrhoea in older calves 2 weeks to 2 months because the toxins destroy the microvilli of the intestine.

Chronic keratoconjunctivitis in sheep yielded *Moraxella ovis*, which is of low virulence, and unlikely to be the cause of the problem. Abscesses in sheep yielded *Pasteurella multocida* and *T. pyogenes* and in goats *Corynebacterium pseudotuberculosis* [4 cases]. *E. coli* was associated with enteritis in lambs and kids [one case each]. Septicaemia in feedlot sheep was due to *Salmonella* Typhimurium, and in lambs, *E. coli*. A case of mastitis in an ewe was due to *T. pyogenes*.

Pneumonia in pigs was due to *Pasteurella multocida* [4] and *Bordetella bronchiseptica* [1]. There were two cases where *E. coli* was isolated from the intestine, and the virulence test was carried out on one of them. It was positive for stx2e and F18 which indicates that it is an Oedema Disease strain.

*Clostridium novyi* caused myositis in a White Rhino. A kudu with multiple lung abscesses yielded *T. pyogenes*.

Monthly report: Dr Theo Kotzé – Bovine consultant Bloemfontein

0827849706@vodamail.co.za

#### 0827849706

# Diagnostic monthly report

No controlled, notifiable or zoonotic diseases or anti-microbial resistant bacteria to report for December 2020.

# Feedlot report received from Dr. Eben du Preez for December 2020 (<a href="mailto:edupreez1@telkomsa.net">edupreez1@telkomsa.net</a>)

Condition	Comments and Specie
Blue ticks	В 3
Bont ticks	B 1
Red legged-ticks	В 3
Bont-legged ticks	В 3
Anaplasmosis	В 3
Red gut	B 1
Acidosis	В 3
Vitamin B 1 deficiency	B 1
Lameness, foot rot	В 3
Laminitis	В 3
Lungs	В 3
Eye infection	B 3
Diarrhoea	В 3
Liver abscesses	B 3
Pericarditis	B 2
Trauma	В 3

Feedlot report received from Drs. Morris and Le Riche November 2020 (<a href="mailto:shaun@octavoscene.co.za">shaun@octavoscene.co.za</a>)

Condition	Comments and Specie
Parafilaria	B 2
Anaplasmosis	B 3
Leptospirosis	B 2
Chronic bronchopneumonia	B 3 (14 cases)
Bloat	B 3 (30 plus cases)
Botulism	B 3 (12 cases)

Monthly report on Livestock and Wildlife isolations for December 2020 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Nothing to report

Monthly report from Dr. Mark Chimes for December 2020 – Dairy Standards

Nothing to report

Monthly report from Dr. Emily Mitchell December 2020 - Wildlife cases: Faculty of Veterinary Science



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

# Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 25th November 2020 and 4th January 2021

Cases from State vet Skukuza or Orpen

Cases imported with master permit

PMDate	Species	Final	Histo No
19-Nov-20	Lion	Suspected bone necrosis	S3189-20
26-Nov-20	Lion	Cutaneous trichoepithelioma	S3259-20
08-Dec-20	Lion	Disorder of sexual differentiation	S3419-20

Kind regards,

Mila Mitchell

Prof. Emily Mitchell

Fakulteit Veeartsenykunde Lefapha la Diseanse tša Bongakadiruiwa

# **DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS**

Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Eye worm ( <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, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes, Tampans
<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	<u>Trichomonosis</u> , <u>Vibriosis</u> , <u>Pizzle disease</u>

Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Red gut (cattle), Blood gut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne`s disease, Septicaemia, E. coli, Dermatophilosis (Lumpy Wool), Bovine Dermatophilosis (Senkobo disease), Fusibacterium necrophorum, Other, Pasteurellosis						
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidiosis						
Fungal diseases	Ringworm						
<u>Viral Diseases (other)</u>	BMC (snotsiekte), BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), Enzootic Bovine Leucosis (EBL), Orf, Warts, Rota virus, Corona Virus, Other viral disease not listed						
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, <u>Cestrum</u> , <u>Facial</u> eczema, <u>Geeldikkop/Dikoor</u> , <u>Lantana</u> , <u>Prussic acid poisoning</u> , <u>Tulip</u> Poisoning, <u>Vermeersiekte</u> ( <u>Geigeria spp.</u> ), <u>Mycotoxicosis</u> , <u>Diplodiosis</u> , <u>Other</u>						
<u>Poisonings</u>	Datura, Snake Bite						
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency						
Micro Nutritional Problems	Copper deficiency, Zinc deficiency, Selenium deficiency, Magnesium deficiency, Vitamin A deficiency						
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Bladder stones, Blindness, Bloat, Red gut (torsion sheep and goats), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint III, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel III, Trauma, Downer, Other, Vestubular syndrome (Middle ear infection), Wet carcasses, Yellow cascases at abattoir						
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever						
Reproductive diseases	Dystocia (Difficult Births), Endometritis, Metritis, Poor conception, Retained afterbirth, Sheath Prolaps, Uterus prolaps, Vaginal (Cervical) prolaps						
Climatical Cause	Lightning						
Non specific diseases	Cause of death not established, Dermatosparaxis, Genetic disorders, Preditors, Sabotation/Theft, Trauma, Traumatic Reticulopericarditis						
Internal Parasites							
Roundworms in general	_						
PROVINCE Mpumalanga Gauteng	Limpopo North West State Kwazulu- Eastern Western Cape Northern Cape						

Average	1.3 (3)	2.7 (3)	2.5 (2)	2.5 (8)	2.3 (6)	1.8 (5)	2.0 (6)	
Level of imp reported	ortance scale: 1	= one case, 2	= more than one	case bu	t less than to	en and 3 =	more than 1	0 cas
Beef	1.5 (2)			2.0 (1)	2.0 (2)			
Dairy							2.0 (1)	
Sheep	1.0 (1)	2.5 (2)	2.5 (2)	2.6 (7)	2.5 (2)	1.5 (2)	2.0 (5)	
Goat		3.0 (1)			2.5 (2)	2.0 (3)		
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Free State								
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PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE  Average	Mpumalanga	<b>Gauteng</b> 2.0 (1)	Limpopo						
Average		2.0 (1)		West	2.3 (3)	Natal 2.0 (2)	Cape	Cape	Cape
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Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, H Sheep: 3 Reitz, Rieml Sheep: 1	ortance scale: 1  ima Veterinar  in, Dr Stephan  loopstad Diere	2.0 (1) = one case 2.0 (1) y Consult Wessels ekliniek	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, Hoo	ortance scale: 1  lima Veterinar  in, Dr Stephan  loopstad Diere  land Dierehos	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, Hoo	ortance scale: 1  ima Veterinar  in, Dr Stephan  loopstad Diere	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, H Sheep: 3 Reitz, Rieml Sheep: 1 Kwazulu-Na Eshowe, Esh Sheep: 2	ortance scale: 1  ima Veterinar  in, Dr Stephan  loopstad Diere  land Dierehos	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, H Sheep: 3 Reitz, Rieml Sheep: 1 Kwazulu-Na Eshowe, Esh Sheep: 2	ortance scale: 1  lima Veterinar  in, Dr Stephan  loopstad Diere  land Dierehos	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, H Sheep: 3 Reitz, Rieml Sheep: 1 Kwazulu-Na Eshowe, Esh Sheep: 2	ortance scale: 1  ima Veterinar  in, Dr Stephan  loopstad Diere  land Dierehos	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape
Average  Level of impore reported  Sheep  Gauteng Pretoria, An Sheep: 2 Free State Bloemfonte Sheep: 3 Hoopstad, H Sheep: 3 Reitz, Rieml Sheep: 1 Kwazulu-Na Eshowe, Esh Sheep: 2 Underberg,	ortance scale: 1  ima Veterinar  in, Dr Stephan  loopstad Diere  land Dierehos  atal howe Veterina  Underberg Ve	2.0 (1) = one case 2.0 (1) y Consult wessels ekliniek pitaal	e, 2 = more	West	2.3 (3) e case b	Natal  2.0 (2)  ut less than to	Cape	Cape	Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo		Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (7)	2.0 (7)	3.0 (1)	2.8 (4)	2.3 (13)	2.7 (3)	2.0 (2)	2.3 (4)	2.0 (2)
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases									

reported

Beef	3.0 (1)								
Dairy		2.0 (1)							
Sheep	2.4 (5)	2.3 (4)	3.0 (1)	2.7 (3)	2.3 (13)	2.5 (2)	2.0 (1)	2.3 (4)	2.0 (2)
Goat	2.0(1)	1.5 (2)		3.0 (1)		3.0 (1)	2.0(1)		

#### Mpumalanga

#### Grootvlei, Grootvlei Dierekliniek

Sheep: 1

# Lydenburg, Longtom Dierekliniek

#### Lydenburg, Lydenburg Dierespreekkamer

Beef: 3

#### Middelburg, Neil Fourie Veeartsenydienste

Sheep: 3

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

Goat: 2

# Piet Retief, Pets Vet Hospital

Sheep: 2

#### Standerton, Econovet

Sheep: 3

# Gauteng

# Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 2, Goat: 1

# **Bronkhorstspruit, Kerkstraat Dierekliniek**

Sheep: 2

#### Hammanskraal, Themba Animal Clinic

Sheep: 2, Goat: 2

# Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Sheep: 3

#### Nigel, Nigel Diere Spreekkamer

Dairy: 2

#### Limpopo

#### Makhado, Blouberg Dierekliniek

Sheep: 3 Twenty cases

#### **North West**

#### **Brits, Brits Dierekliniek**

Sheep: 2

#### **Potchefstroom, Bult Dierekliniek**

# **Zeerust, Avontuur veterinary Practice**

Sheep: 3, Goat: 3

#### Free State

# **Bethlehem, Bethlehem Animal Hospital**

Sheep: 3									
Bloemfontein, University Free State									
Sheep: 1  Bultfontein, Greylingsrust Dierespreekkamer									
	Dierespr	ееккаппег							
Sheep: 2	limiak								
Clocolan, Clocolan Dierek	iiniek								
Sheep: 2	D d.	-1-4							
Ficksburg, Oosvrystaat Di	ere Produ	ikte							
Sheep: 3	deliminde								
Frankfort, Frankfort Dierekliniek									
Sheep: 3	مادا:ساماد								
Hoopstad, Hoopstad Diero	ekiiniek								
Sheep: 3	b								
Kroonstad, Kroonstad Die	renospita	aı							
Sheep: 2	4	L - ! -J							
Oranjeville, Grasveld Kud	aegesona	neia							
Sheep: 2									
Reitz, Riemland Dierehos	pitaai								
Sheep: 2									
Senekal, Senekal Dierekli	niek								
Sheep: 2									
Warden, Warden Diereklin	niek								
Sheep: 3									
Winburg, Winburg Dierek	liniek								
Sheep: 2									
Kwazulu-Natal		_							
Camperdown, Camperdov	vn Vet Cli	nic							
Sheep: 2	_								
Estcourt, Estcourt Vet Clin	nic								
Sheep: 3, Goat: 3									
Eastern Cape									
Cradock, Cradock Veterin	ary Clinic								
Sheep: 2									
<b>Graaff-Reinet, Camdeboo</b>	Veterina	ry Clinic							
Goat: 2									
Western Cape									
Caledon, Caledon Dierekli	niek								
Sheep: 2									
George, George Animal H	ospital								
Sheep: 3									
Riversdale, Riversdal Dier	ekliniek								
Sheep: 1									
Vredenburg, Vredenburg	Dierehosp	itaal							
Sheep: 3									
Wireworm in young lambs gr	azing on kv	week							
Northern Cape									
Colesberg, Karoo Veterina	ary Hospit	al							
Sheep: 3									
Kimberley, Kimberley Dierekliniek									
Sheep: 1									
Brown stomach-wor	m							^	
PROVINCE Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average							1.0 (1)	2.3 (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 1	10 cases
Beef								2.0 (1)	
Sheep							_	2.5 (2)	
Goat							1.0 (1)		
Eastern Cap			- CI''-						
Goat: 1	et, Camdeboo	veterinai	y Clinic						
Western Ca									
Caledon, Ca Beef: 2	ledon Dierekli	niek							
	(WC), Heidelb	era Diere	kliniek						
Sheep: 3									
	Wellington Di	erehospit	aal						
Sheep: 2									
Eye worn	n ( <i>Thelazia</i>	rhodesii	)						^
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
Beef					2.0 (1)				
Free State									
Winburg, W Beef: 2	inburg Dierek	liniek							
Tape Wo	rms								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (5)	2.0 (3)	2.0 (1)		1.3 (6)	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 t	en and 3 =	more than :	10 cases
Beef	1.0 (1)				1.0 (2)				
Sheep	2.0 (3)	2.0 (3)			1.5 (4)	2.0 (1)	1.0 (1)		
Goat	1.0(1)		2.0 (1)				2.0 (1)		

Mpumalang									
	four Diereklin	iek							
Beef: 1, Shee	•								
	, Neil Fourie V	eeartseny	dienste						
Sheep: 2									
Nelspruit, N	lelspruit Anima	al Hospita							
Goat: 1									
Standerton,	, Econovet								
Sheep: 3									
Gauteng									
Bapsfontein	n, Bapsfontein	Dierehos	pitaal						
Sheep: 1									
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Sheep: 3									
	ima Veterinar	y Consult	ing Rooms						
Sheep: 2									
Limpopo									
	Pietersburg V	eterinary	Clinic						
Goat: 2		, , , , , , , , , , , , , , , , , , , ,							
Free State									
	in, University	Free State	<b>.</b>						
Sheep: 1	iii, Ciiii Cioley		-						
	ocolan Dierek	liniek							
Sheep: 2	ocolan Bierek	iiiicix							
	Kroonstad Die	rehosnita	al						
Beef: 1	iti oonstaa Die	Ciloopica	<b>u.</b>						
	nel Veterinary	Clinic							
Beef: 1, Shee		Cillic							
	ب. ع land Dierehos	nitaal							
Sheep: 2	ianu Dierenos	pitaai							
Kwazulu-Na	stal								
	Underberg Ve	tarinary S	Surgery						
Sheep: 2	Oliderberg ve	termary S	urgery						
Eastern Cap	<b>16</b>								
	et, Camdeboo	Veterina	y Clinic						
Goat: 2	et, Camueboo	vetermai	y Cillic						
	p, Humansdor	n Votorin	ory Clinic						
	p, numansuoi	p veterin	ary Cillic						
Sheep: 1									
Parafilar	ia								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)	1.0(1)		3.0 (1)		2.0 (2)			
	(1)	(1)		(1)					
	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									
Beef	1.0(1)	1.0 (1)		3.0(1)		2.0 (2)			
Mpumalang									
	Grasslands vet	clinic							
Beef: 1									
Gauteng									
Nigel, Nigel	Diere Spreekl	kamer							

Beef: 1									
North West									
	a Dierekliniek								
Beef: 3	a Dicientililek								
Kwazulu-Na	ıtal								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2	Pitubatuba Ai	iiiiai Ciiii							
	/heid Privaat \	/ooartso							
Beef: 2	inclu i iivaac i	recarese							
Liver fluk	æ								^
				North	Eroo	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West		Natal	Cape	Cape	Cape
					2.0	2.0 (1)		2.0.(2)	
Average					(5)	3.0 (1)		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 (4)	3.0 (1)		1.0 (1)	
Dairy								2.5 (2)	
•					2.0			( <i>_</i> )	
Sheep					(1)				
Free State									
	Bethlehem Ar	nimal Hos	pital						
Beef: 2									
	Union Street	Animal Co	nsulting R	looms					
Beef: 2	land Diarahaa	-:							
	land Dierehos	pitaai							
Beef: 2, Shee	ip. 2 inburg Dierek	liniak							
Beef: 2	ilibulg blelek	IIIIEK							
Kwazulu-Na	ıtal								
	Underberg Ve	terinary S	Surgery						
Beef: 3			54. 1						
Western Ca	pe								
	orge Animal H	ospital							
Dairy: 3									
	orge Herd Hea	th Consul	t						
Dairy: 2									
Malmesbury Beef: 1	,, Dr Otto Krie	k							
Conical F	lukes								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			1.7 (3)	2.0 (2)			

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

Beef		2.0 (1)			1.7	2.0 (2)			
Deei		2.0 (1)			(3)	2.0 (2)			
Gauteng									
	Diere Spreekl	camer							
Beef: 2									
Free State	Kroonstad Die	rohocnita	اد						
Beef: 2	Ki ooiistau Die	renospita	aı						
	land Dierehos	nitaal							
Beef: 1	idila bicicilos	picaa:							
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	atal								
<b>Pietermarit</b>	zburg, Veterin	ary House	e Hospital						
Beef: 2									
Vryheid, Vry Beef: 2	yheid Privaat \	/eeartse							
Cysticero	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0(1)	1.0 (1)					1.7 (3)	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)	1.0(1)	1.0(1)					2.0 (1)	1.0(1)
Sheep								1.5 (2)	
Mpumalang	a								
Volksrust, G	Grasslands vet	clinic							
Beef: 1									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Limpopo	D	C:							
<b>мокорапе,</b> Beef: 1	Bundu Veterin	ary Servi	ces						
Western Ca	no								
	pe orge Animal Ho	nenital							
Beef: 2, Shee		ээргсаг							
	Dierehospitaa	nl;							
Sheep: 1									
Northern Ca	аре								
	Kimberley Die	rekliniek							
Beef: 1	-								
Abattoir									

# **External Parasites**

Blue ticks	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (6)	2.0 (1)	2.0 (1)	2.8 (4)	2.7 (19)	2.9 (8)	2.5 (2)	3.0 (3)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.6 (5)	2.0 (1)	2.0 (1)	2.8 (4)	2.5 (13)	2.9 (8)	2.0 (1)	3.0 (1)	2.0 (1)
Dairy					3.0 (1)			3.0 (2)	
Sheep	2.0 (1)				3.0 (5)		3.0 (1)		
Beef: 2, Shee Lydenburg, Beef: 3 Lydenburg, Beef: 3 Nelspruit, N Beef: 2 Standerton, Beef: 3 Gauteng Nigel, Nigel Beef: 2 Limpopo Tzaneen, ZZ Beef: 2 North West Potchefstroe Beef: 3 Schweizer-F Beef: 2 Stella, Stella Beef: 3 Vryburg, Mo Beef: 3 Free State	Longtom Dier Lydenburg Die elspruit Anima	ekliniek erespreek al Hospita kamer ce ekliniek doorn Die	erekliniek	SR					

Beef: 3, Dairy: 3, Sheep: 3 Hertzogville, Hertzogville Dierekliniek Beef: 3 Severe tick infestations Sheep: 3 Severe tick infestations Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 1 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 **Vrede, Vrede Dierehospitaal** Increase in tick burden after rains Warden, Warden Dierekliniek Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Dundee, Endumeni Herd health** Beef: 3 **Eshowe, Eshowe Veterinary Hospital** Beef: 3 **Kokstad, E.G.Veterinary Services** Beef: 3 Increase in tick population Mtubatuba, Mtubatuba Animal Clinic Beef: 3 **Pietermaritzburg, Veterinary House Hospital** Beef: 3 **Underberg, Underberg Veterinary Surgery** Beef: 2 **Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Western Cape** George, George Animal Hospital Beef: 3, Dairy: 3 George, George Herd Heath Consult Dairy: 3 **Northern Cape** 

Beef: 2

Kuruman, Kuruman Dierekliniek

Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Average  1.7 (3)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Covazulu-Natal  Bergville, Bergville Veterinary Clinic lesef: 1  Schowe, Eshowe Veterinary Hospital lesef: 2  Heartwater (Bont) ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Northern Cape  Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Seef 2.7 (3) 2.0 (2) 1.5 (2) 2.7 (3) 2.3 (6)  Scheep 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 1.5 (2)  Apumalanga Lydenburg Dierespreekkamer lesef: 2  Jeff 3, Sheep: 3, Goat: 3  Jeff 3, Sheep: 3, Goat: 3  Jeff 3, Goat: 2  Jeff 3, G										
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases exported  lever	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Regorded (Mazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 1 Stahowe, Eshowe Veterinary Hospital Beef: 2 Statubatuba, Mtubatuba Animal Clinic Beef: 3 Statubatuba, Mtubatuba Animal Clinic Beef: 2 Statubatuba, Mtubatuba Animal Clinic Beef: 3 Statubatuba, Mtubatuba Animal Clinic Beef: 2 Statubatuba, Mtubatuba Animal Clinic Beef: 3 Statubatuba, Mtubatuba Animal Clinic Beef: 2 Statubatuba, Mtubatuba Animal Clinic Beef: 3 Statubatuba, Mtubatuba Animal Clinic Beef:	Average						1.7 (3)			
Regulle, Bergyille Veterinary Clinic leef: 1 Showe, Eshowe Veterinary Hospital leef: 2 Heartwater (Bont) ticks  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape  2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Seef 2.7 (3) 2.0 (2) 1.5 (2) 2.7 (3) 2.3 (6)  Sheep 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 1.5 (2)  Sheep 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 2.0 (3)  Apumalanga Vedenburg, Longtom Dierekliniek leef: 3, Sheep: 3, Goat: 2  Seefs 2.7 (3) Sheep: 3, Goat: 2  Seefs 3, Sheep: 3, Goat: 2  Seefs 2.7 (3) Sheep: 2, Goat: 2  Seefs 2.7 (3) Sheep: 2, Goat: 2  Seefs 3, Sheep: 2, Goat: 2  Seefs 4.7 (3) Sheep: 2, Goat: 2  Seefs 5.7 (5) Sheep: 2, Goat: 2  Seefs 6.7 (5) Sheep: 1, Goat: 1  Seef: 2, Sheep: 1, Goat: 1  Seef: 2, Sheep: 1, Goat: 1  Seef: 2, Sheep: 3, Goat: 1  Seef: 3, Stelp: 1, Goat: 1  Seef: 3, Stelp: 1, Goat: 1  Seef: 3, Stelp: 1, Goat: 1  Seef: 3, Stelp: 3, Goat: 2  Seef: 2, Sheep: 3, Goat: 2  Seef: 3, Stelp: 3, Goat: 2  Seef: 4, Sheep: 4, Goat: 1  Seef: 5, Sheep: 5, Goat: 2  Seef: 5, Sheep: 1, Goat: 1  Seef: 6, Sheep: 1, Goat: 1  Seef: 1, Sheep: 1, Goat: 1  Seef: 2, Sheep: 3, Goat: 2  Seef: 3, Stelp: 3, Goat: 2  Seef: 4, Sheep: 4, Goat: 1  Seef: 5, Sheep: 5, Goat: 2  Seef: 6, Sheep: 1, Goat: 1  Seef: 1, Sheep: 1, Goat: 1  Seef: 2, Sheep: 3, Goat: 2  Seef: 3, Sheep: 4, Goat: 4  Seef: 4, Sheep: 4, Goat: 4  Seef: 5, Sheep: 5, Goat: 5  Seef: 6, Sheep: 1, Goat: 1  Seef: 6, Sheep: 1, Goat: 1  Seef: 7, Sheep: 1, Goat: 1  Seef: 8, Sheep: 1, Goat: 1  Seef: 9, Sheep: 1, Goat: 1  Seef: 9, Sheep: 1, Goat: 1  Seef: 1, Sheep: 1, Goat: 1  Seef: 2, Sheep: 3, Goat: 2  Seef: 3, Sheep: 4, Goat: 4  Seef: 4, Sheep: 4, Goat: 4  Seef: 5, Sheep: 5, Goat: 5  Seef: 6, Sheep: 1, Goat: 1  Seef: 7, Sheep: 1, Goat: 1  Seef: 8, Sheep: 1, Goat: 1  Seef: 9, Sheep: 1, Goat: 1  Seef: 9, Sheep: 1, Goat: 1  Seef: 9, Sheep: 1, Goat: 1  Seef: 1, Sheep: 1, Goat: 1  Seef: 2, Sheep: 1, Goat: 1  Seef: 3, Sheep: 1	Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Regville, Bergville Veterinary Clinic Reef: 1  Showe, Eshowe Veterinary Hospital Refused to the State Refused	Beef						1.7 (3)			
Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported to a case that the case of	<b>Bergville, B</b> Beef: 1	ergville Veteri								
Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Seef 2.7 (3) 2.0 (2) 1.5 (2) 2.7 (3) 2.3 (6) 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 1.5 (2		nowe Veterina	ry Hospit	al						
Heartwater (Bont) ticks  PROVINCE Mpumalanga Gauteng Limpopo West Fate Kwazulu- Cape Cape Northern Cape  2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.1 (11)  2.2 (3 (6)  2.3 (6)  3.0 (1)  2.0 (2)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (1)  3.0 (2)  3.0 (3)  Appumalanga  Appum		Mtubatuba Ar	nimal Clin	ic						
Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and	Beef: 2	Trabataba Ai	a. C							
Average 2.7 (6) 2.0 (5) 1.3 (4) 2.8 (5) 2.1 (11)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported.  Level of importance scale: 1 = one case, 2 = more than one case but less than ten	Heartwat	er (Bont) ti	cks							_
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Level of importance scale: 1 = one case, 2 =	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Reef 2.7 (3) 2.0 (2) 1.5 (2) 2.7 (3) 2.3 (6) Sheep 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 1.5 (2) Shoot 2.5 (2) 2.0 (1) 1.0 (1) 3.0 (1) 2.0 (3)  Apumalanga Rydenburg, Longtom Dierekliniek Reef: 3, Sheep: 3, Goat: 3 Rydenburg, Lydenburg Dierespreekkamer Reef: 2 Relspruit, Nelspruit Animal Hospital Reef: 3, Goat: 2 Reammanskraal, Themba Animal Clinic Reef: 2, Sheep: 2, Goat: 2 Reef: 2, Sheep: 2 Reef: 2, Sheep: 1, Goat: 1 Reammanskraal, Themba Reef: 2 Reef: 3, Sheep: 1, Goat: 1 Reammanskraal, Themba Reef: 2 Reef: 2, Sheep: 1, Goat: 1 Reammanskraal, Themba Reef: 2 Reef: 3 Reef: 4 Reef: 3 Reef: 4 Reef: 5 Reef: 5 Reef: 5 Reef: 6 Reef: 6 Reef: 6 Reef: 6 Reef: 7 Reef: 7 Reef: 7 Reef: 8 Reef: 9 Reef:	Average	2.7 (6)	2.0 (5)	1.3 (4)	2.8 (5)		2.1 (11)			
Scheep 3.0 (1) 2.0 (2) 1.0 (1) 3.0 (1) 2.0 (3)  Apumalanga Lydenburg, Longtom Dierekliniek  Seef: 3, Sheep: 3, Goat: 3  Lydenburg, Lydenburg Dierespreekkamer  Seef: 2  Selspruit, Nelspruit Animal Hospital  Seef: 3, Goat: 2  Seatteng  Sauteng  Sammanskraal, Themba Animal Clinic  Seef: 2, Sheep: 2, Goat: 2  Pertoria, Anima Veterinary Consulting Rooms  Seef: 2, Sheep: 2  Impopo  Adokopane, Bundu Veterinary Services  Seef: 1, Soat: 1  Izaneen, ZZ2 Farm Practice  Seef: 3  Arythurg, Molopo Dierekliniek  Seef: 3  Zeerust, Avontuur veterinary Practice	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
Apumalanga Lydenburg, Longtom Dierekliniek Deef: 3, Sheep: 3, Goat: 3 Lydenburg, Lydenburg Dierespreekkamer Deef: 2 Deelspruit, Nelspruit Animal Hospital Deef: 3, Goat: 2 Deelspruit, Nelspruit Animal Hospital Deef: 2, Sheep: 2, Goat: 2 Deteroria, Anima Veterinary Consulting Rooms Deef: 2, Sheep: 2 Deteroria, Anima Veterinary Services Deef: 2, Sheep: 1, Goat: 1 Deef: 3 Dee	Beef	2.7 (3)	2.0 (2)	1.5 (2)	2.7 (3)		2.3 (6)			
Apumalanga Lydenburg, Longtom Dierekliniek  Beef: 3, Sheep: 3, Goat: 3 Lydenburg, Lydenburg Dierespreekkamer  Beef: 2 Leef: 3, Goat: 2 Leef: 3, Goat: 2 Leef: 3, Goat: 2 Leef: 2, Sheep: 2, Goat: 2 Leef: 2, Sheep: 2, Goat: 2 Leef: 2, Sheep: 2 Leef: 2, Sheep: 2 Leef: 3, Sheep: 1, Goat: 1 Leef: 3, Sheep: 1, Goat: 1 Leef: 3 Leef:	Sheep	3.0 (1)	2.0 (2)	1.0(1)	3.0 (1)		1.5 (2)			
Aydenburg, Longtom Dierekliniek Beef: 3, Sheep: 3, Goat: 3 Bydenburg, Lydenburg Dierespreekkamer Beef: 2 Beef: 3, Goat: 2 Beef: 3, Goat: 2 Beef: 3, Goat: 2 Beef: 3, Goat: 2 Beef: 2, Sheep: 2, Goat: 2 Bretoria, Anima Veterinary Consulting Rooms Beef: 2, Sheep: 2 Beef: 2, Sheep: 2 Beef: 2, Sheep: 2 Beef: 2, Sheep: 1 Beef: 2, Sheep: 1 Beef: 2, Sheep: 1 Beef: 3, Goat: 1 Beef: 4 Beef: 1 Beef: 1 Beef: 5 Beef: 1 Beef: 5 Beef: 1 Beef: 6 Beef: 1 Beef: 3 Beef:	Goat	2.5 (2)	2.0 (1)	1.0(1)	3.0 (1)		2.0 (3)			
Seef: 3, Sheep: 3, Goat: 3 Seef: 2 Seef: 2 Seef: 3, Goat: 2 Seaturing Seef: 2, Sheep: 2, Goat: 2 Seef: 2, Sheep: 2, Goat: 2 Seef: 2, Sheep: 2 Seef: 3, Sheep: 2 Seef: 3, Sheep: 2 Seef: 3, Sheep: 2 Seef: 4 Seef: 2, Sheep: 1, Goat: 1 Seef: 1 Seef: 1 Seef: 3 Seef: 3 Seef: 3 Seef: 3 Seef: 3 Seef: 4 Seef: 3										
Aydenburg, Lydenburg Dierespreekkamer  Beef: 2  Relspruit, Nelspruit Animal Hospital  Beef: 3, Goat: 2  Bauteng Hammanskraal, Themba Animal Clinic  Beef: 2, Sheep: 2, Goat: 2  Pretoria, Anima Veterinary Consulting Rooms  Beef: 2, Sheep: 2  Limpopo  Mokopane, Bundu Veterinary Services  Beef: 2, Sheep: 1, Goat: 1  Tezaneen, ZZ2 Farm Practice  Beef: 1  North West  Stella, Stella Dierekliniek  Beef: 3  Pryburg, Molopo Dierekliniek  Beef: 2  Reerust, Avontuur veterinary Practice			ekliniek							
Reef: 2 Relspruit, Nelspruit Animal Hospital Reef: 3, Goat: 2 Rauteng Rammanskraal, Themba Animal Clinic Reef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms Reef: 2, Sheep: 2 Limpopo Rokopane, Bundu Veterinary Services Reef: 2, Sheep: 1, Goat: 1 Fizaneen, ZZZ Farm Practice Reef: 1 Rorth West Stella, Stella Dierekliniek Reef: 3 Vryburg, Molopo Dierekliniek Reef: 2 Reerust, Avontuur veterinary Practice			orosprosla	drama.						
Nelspruit, Nelspruit Animal Hospital Seef: 3, Goat: 2 Gauteng Hammanskraal, Themba Animal Clinic Seef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms Seef: 2, Sheep: 2 Limpopo Hokopane, Bundu Veterinary Services Seef: 2, Sheep: 1, Goat: 1 Tzaneen, ZZZ Farm Practice Seef: 1 Sorth West Stella, Stella Dierekliniek Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Seerust, Avontuur veterinary Practice		Lydenburg Die	erespreek	Kamer						
Gauteng Hammanskraal, Themba Animal Clinic Seef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms Seef: 2, Sheep: 2 Limpopo Mokopane, Bundu Veterinary Services Seef: 2, Sheep: 1, Goat: 1 Traneen, ZZ2 Farm Practice Seef: 1 North West Stella, Stella Dierekliniek Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Leerust, Avontuur veterinary Practice		lelspruit Anima	al Hospita	ıl						
Hammanskraal, Themba Animal Clinic Seef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms Seef: 2, Sheep: 2 Limpopo Hokopane, Bundu Veterinary Services Seef: 2, Sheep: 1, Goat: 1 Tzaneen, ZZ2 Farm Practice Seef: 1 North West Stella, Stella Dierekliniek Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Zeerust, Avontuur veterinary Practice	Beef: 3, Goat	: 2								
Reef: 2, Sheep: 2, Goat: 2 Pretoria, Anima Veterinary Consulting Rooms Reef: 2, Sheep: 2 Limpopo Mokopane, Bundu Veterinary Services Reef: 2, Sheep: 1, Goat: 1 Tzaneen, ZZ2 Farm Practice Reef: 1 North West Stella, Stella Dierekliniek Reef: 3 Vryburg, Molopo Dierekliniek Reef: 2 Reerust, Avontuur veterinary Practice	Gauteng			_						
Pretoria, Anima Veterinary Consulting Rooms  Beef: 2, Sheep: 2  Limpopo  Mokopane, Bundu Veterinary Services  Beef: 2, Sheep: 1, Goat: 1  Tzaneen, ZZ2 Farm Practice  Beef: 1  Morth West  Stella, Stella Dierekliniek  Beef: 3  Vryburg, Molopo Dierekliniek  Beef: 2  Zeerust, Avontuur veterinary Practice		•	Animal Cli	nic						
Seef: 2, Sheep: 2 Limpopo Mokopane, Bundu Veterinary Services Seef: 2, Sheep: 1, Goat: 1 Tzaneen, ZZ2 Farm Practice Seef: 1 North West Stella, Stella Dierekliniek Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Zeerust, Avontuur veterinary Practice		•	v Concult	ina Dooma						
Mokopane, Bundu Veterinary Services Seef: 2, Sheep: 1, Goat: 1 Tzaneen, ZZ2 Farm Practice Seef: 1 North West Stella, Stella Dierekliniek Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Zeerust, Avontuur veterinary Practice			y Consult	ing Rouns						
Mokopane, Bundu Veterinary Services  Beef: 2, Sheep: 1, Goat: 1  Tzaneen, ZZ2 Farm Practice  Beef: 1  North West  Stella, Stella Dierekliniek  Beef: 3  Tryburg, Molopo Dierekliniek  Beef: 2  Zeerust, Avontuur veterinary Practice		.p								
Seef: 2, Sheep: 1, Goat: 1  Tzaneen, ZZ2 Farm Practice Seef: 1  North West Stella, Stella Dierekliniek Seef: 3  Tryburg, Molopo Dierekliniek Seef: 2  Zeerust, Avontuur veterinary Practice		Bundu Veterin	ary Servi	ces						
Fzaneen, ZZ2 Farm Practice  Seef: 1  North West  Stella, Stella Dierekliniek  Seef: 3  Vryburg, Molopo Dierekliniek  Seef: 2  Zeerust, Avontuur veterinary Practice										
North West Stella, Stella Dierekliniek Beef: 3 Vryburg, Molopo Dierekliniek Beef: 2 Veerust, Avontuur veterinary Practice	Tzaneen, ZZ		ce							
Stella, Stella Dierekliniek Beef: 3 /ryburg, Molopo Dierekliniek Beef: 2 Zeerust, Avontuur veterinary Practice	Beef: 1									
Seef: 3 Vryburg, Molopo Dierekliniek Seef: 2 Veerust, Avontuur veterinary Practice	North West									
Yryburg, Molopo Dierekliniek Beef: 2 Zeerust, Avontuur veterinary Practice		a Dierekliniek								
Seef: 2 Zeerust, Avontuur veterinary Practice		olono Diovoldi:	niok							
Zeerust, Avontuur veterinary Practice		лоро мегекиг	iiek							
		ontuur veterin	arv Pract	ice						
ACCUSATION OF COURT O			, ucc							

Kwazulu-Na	ital								
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 3									
Dundee, En	dumeni Herd l	nealth							
Beef: 3									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 3, Goat	: 3								
Pietermarit	zburg, Veterin	ary House	Hospital						
Beef: 2									
Pongola, Po	ngola Animal	Clinic							
Beef: 1, Shee	p: 1, Goat: 1								
Vryheid, Vry	heid Privaat \	/eeartse							
Beef: 2, Shee	p: 2, Goat: 2								
Brown ea	r-ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.7 (3)	2.0 (1)	2.0 (1)	2.0 (1)	3.0 (1)	2.3 (4)		3.0 (1)	
Level of impore	ortance scale: 1	= one case	ſ			ut less than t	en and 3 =	more than	10 cases
Beef	2.7 (3)	2.0 (1)	2.0 (1)	2.0 (1)	3.0 (1)	2.3 (4)		_	
Sheep								3.0 (1)	
Mpumalang	а								_
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
Lydenburg,	Lydenburg Die	erespreek	kamer						
Beef: 3	_,	<u> </u>							
Standerton,	Econovet								
Beef: 3									
Gauteng									
<b>Bronkhorsts</b>	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
Limpopo									
	Bundu Veterin	ary Servi	ces						
Beef: 2									
North West									
	Reneke, Buffel	doorn Die	erekliniek	SR					
Beef: 2									
Free State									
	Bethlehem Ar	ıımal Hosı	pital						
Beef: 3									
Kwazulu-Na			_						
	ergville Veteri	nary Clini	С						
Beef: 3			-1						
	nowe Veterina	ry Hospita	aí						
Beef: 1	Mtubatuba Ar	simal Cli	la						
withnathna.	withinathina Af								
Beef: 2	Pitabataba Ai	IIIIIai Ciiii	iC						

	heid Privaat \	/eeartse							
Beef: 3									
Western Ca		Di							
Sheep: 3	ırg, Korhaanru	ig Dierege	sonaneia						
Sneep: 3									
Bont-leg	ged ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		2.0 (1)	2.9 (7)	2.7 (23)	2.4 (5)	3.0 (3)		2.8 (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 I	10 cases
Beef	2.0 (2)		2.0 (1)	2.8 (5)	2.7 (13)	2.3 (4)	3.0 (1)		3.0 (1)
Dairy					3.0 (1)				
Sheep				3.0 (2)	2.6 (9)	3.0 (1)	3.0 (1)		2.5 (2)
Goat							3.0 (1)		3.0 (1)
Mpumalang	2								
	a four Diereklin	iek							
Beef: 1	iour Dicioniii	ICIX							
Lydenburg,	Lydenburg Di	erespreek	kamer						
Beef: 3		•							
Limpopo									
Mokopane,	Bundu Veterin	ary Servi	ces						
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 3									
	stad, Leeudori	ngstad Di	erekliniek						
Beet: 3	naco lamonoco								
Sheep: 3	ease, lameness								
	Reneke, Buffel	doorn Die	erekliniek	SR					
Beef: 2	isolito, buildi								
	a Dierekliniek								
Beef: 3, Shee									
	olopo Diereklir	niek							
Beef: 3									
Free State									
	in, Dr Stephan	Wessels							
Beef: 3, Shee	•								
	Greylingsrust	Dierespr	eekkamer						
Beef: 3	ocolom Diamet	liniele							
	ocolan Dierek	ппек							
Beef: 2, Shee	ep: 2 <b>o, Platkop Die</b> r	okliniak							
Dewersnort	, Flackop bler	CKIIIIIEK							

Excelsior, W	/eltevrede Die	rekliniek							
Beef: 3, Shee									
	Dosvrystaat Di	ere Produ	kte						
	/: 3, Sheep: 3								
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 2, Shee		. ссор.с							
	nel Veterinary	Clinic							
Beef: 2	ner vetermary	Cillino							
	Grasveld Kud	denesond	heid						
Beef: 3	Grasvela Raa	acgesona	iiciu						
	on, Viljoenskro	on Dierel	diniek						
Beef: 3, Shee		Jon Dierei	MIIIICK						
	arden Dierekliı	niek							
Beef: 2	ildeli Dielekiii	IICK							
	n, Wesselsbro	n Dierekli	niak						
Sheep: 1	ii, wesselsbio	II DICI CKII	IIICK						
	inburg Dierek	liniak							
Beef: 3	ilibulg Dielek	IIIIICK							
Kwazulu-Na	ı+əl								
	ergville Veteri	nary Clinia							
Beef: 3	ergville veteri	ilai y Cillii	<u> </u>						
	nowe Veterina	ry Hoenit:							
Beef: 2	lowe veterina	iy ilospice	41						
	Ncanduvet Ne	wczetle							
Beef: 3, Shee		wcastic							
	Underberg Ve	tarinary S	urgery						
Beef: 1	Oliderberg ve	termary 3	uigeiy						
Eastern Cap	10								
_	, Steynsburg D	iorobocni	taal						
Beef: 3	, Steynsburg D	riei eiiospi	Laai						
Paralysis in 3	Cacoc								
Sheep: 3, Go									
Northern Ca									
	•	Clinia							
Sheep: 2	Aar Veterinary	Cimic							
	uruman Diere	leliminte							
		Kiiiiek							
beer: 3, Shee	ep: 3, Goat: 3								
Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)			2.5 (2)	2.3 (12)	3.0 (1)	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	2.3 (3)			2.5 (2)	2.4 (7)	3.0 (1)	3.0 (1)		

Beef: 3, Sheep: 3

2.2 Sheep (5) Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 2 Lydenburg, Lydenburg Dierespreekkamer **Nelspruit, Nelspruit Animal Hospital** Beef: 2 **North West** Christiana, Christiana Dierehospitaal Schweizer-Reneke, Buffeldoorn Dierekliniek SR Beef: 2 **Free State Bethlehem, Union Street Animal Consulting Rooms Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3 Clocolan, Clocolan Dierekliniek Beef: 2, Sheep: 2 **Excelsior, Weltevrede Dierekliniek** Beef: 3, Sheep: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 2, Sheep: 2 **Memel, Memel Veterinary Clinic** Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 1 Kwazulu-Natal **Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape** Steynsburg, Steynsburg Dierehospitaal Beef: 3 **Paralysis ticks** North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.5 **Average** (2) 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 Sheep (2) Free State Kroonstad, Kroonstad Dierehospitaal Sheep: 1

<b>Reitz, Rieml</b> Sheep: 2	and Dierehos	pitaal							
	e (red lice)								^
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 one	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep					2.0 (1)				
Free State									
	Oosvrystaat Di	ere Produ	kte						
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									2.0 (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 1	10 cases
Beef									2.0(1)
Northern Ca	ipe								
	uruman Diere	kliniek							
Beef: 2									
Scab mite	es								_
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 one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep				1.0(1)					
North West									
	ontuur veterin	ary Practi	ice						
Sheep: 1 Mange Mi	ites								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	2.0 (1)	2.0 (1)		1.0 (1)	2.0 (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	2.0 (1)			1.0 (1)	2.0 (1)				
Goat		2.0 (1)							
Mpumalang	ja								
Balfour, Ba	lfour Diereklin	iek							
Beef: 2									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Goat: 2									
North West			•						
	Christiana Die	rehospita	al						
Beef: 1									
Sarcoptes Free State									
	/inburg Dierek	liniak							
Beef: 2	rilibuly blelek	IIIIICK							
Nuisance	: Flies								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.7 (3)		3.0 (2)	2.9	2.8 (8)		1.2 (6)	
	2.3 (6)	2.7 (3)		3.0 (2)	2.9 (13)	2.8 (8)		1.2 (6)	
Level of impreported	ortance scale: 1		e, 2 = more	-			en and 3 =		10 cases
			e, 2 = more	-	e case b		en and 3 =		10 cases
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
reported  Beef	ortance scale: 1	= one case 3.0 (1)	e, 2 = more	than on	3.0 (7) 3.0 (2)	2.8 (5)	en and 3 =	more than :	10 cases
reported  Beef  Dairy	ortance scale: 1  2.5 (4)	= one case 3.0 (1) 2.0 (1)	e, 2 = more	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep	2.5 (4) 2.0 (2)	= one case 3.0 (1) 2.0 (1)	e, 2 = more	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Bal	ortance scale: 1  2.5 (4)  2.0 (2)  Ja  Ifour Diereklin	= one case 3.0 (1) 2.0 (1) 3.0 (1)	e, 2 = more	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Ba Beef: 1, Shee	2.5 (4)  2.0 (2)  2.0 (2)  2.0 (2)	= one case 3.0 (1) 2.0 (1) 3.0 (1)	e, 2 = more	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee Lydenburg,	ortance scale: 1  2.5 (4)  2.0 (2)  Ja  Ifour Diereklin	= one case 3.0 (1) 2.0 (1) 3.0 (1)	e, 2 = more	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee Lydenburg, Beef: 3	2.5 (4)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)	= one case 3.0 (1) 2.0 (1) 3.0 (1) iek ekliniek		than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Sheet Lydenburg, Beef: 3 Lydenburg,	2.5 (4)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)	= one case 3.0 (1) 2.0 (1) 3.0 (1) iek ekliniek		than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Ball Beef: 1, Sheel Lydenburg, Beef: 3 Lydenburg, Beef: 3, Sheel	2.5 (4)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)	= one case 3.0 (1) 2.0 (1) 3.0 (1) iek ekliniek erespreek	kamer	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases
reported  Beef  Dairy  Sheep  Goat  Mpumalang Balfour, Ball Beef: 1, Sheel Lydenburg, Beef: 3 Lydenburg, Beef: 3, Sheel	2.5 (4)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)  2.0 (2)	= one case 3.0 (1) 2.0 (1) 3.0 (1) iek ekliniek erespreek	kamer	than one	3.0 (7) 3.0 (2) 2.8	2.8 (5) 3.0 (1) 3.0 (1)	en and 3 =	more than :  1.0 (2)  1.5 (2)	10 cases

Gauteng Nigel, Nigel Diere Spreekkamer

Dairy: 2									
Pretoria, An	ima Veterinar	y Consulti	ing Rooms	3					
Beef: 3, Shee	p: 3								
North West									
Stella, Stella	a Dierekliniek								
Beef: 3, Shee	p: 3								
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Beef: 3									
<b>Bultfontein</b> ,	Greylingsrust	Dierespr	eekkamer						
Beef: 3		•							
Dewetsdorp	, Platkop Dier	ekliniek							
Sheep: 2									
Ficksburg, C	Dosvrystaat Di	ere Produ	kte						
Beef: 3, Dairy	/: 3, Sheep: 3								
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 3, Dairy	/: 3, Sheep: 3								
	nel Veterinary	Clinic							
Beef: 3	-								
Oranjeville,	<b>Grasveld Kud</b>	degesond	heid						
Beef: 3, Shee		_							
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	ital								
Bergville, Bo	ergville Veteri	nary Clini	С						
Beef: 3									
Dundee, En	dumeni Herd l	nealth							
Beef: 3, Dairy	/: 3								
	nowe Veterina	ry Hospita	al						
Beef: 3									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2, Goat									
Underberg,	<b>Underberg Ve</b>	terinary S	urgery						
Beef: 3, Shee									
Western Ca									
	,, Dr Otto Krie	k							
Dairy: 2	.,								
Oudtshoorn	, Ostrimed								
Beef: 1, Shee	•								
	h, Stellenbosc	h Animal	Hospital						
	/: 1, Sheep: 1								
, , ,									
									The second second
Blowflies									
Blowflies									_
		Gautena	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
		Gauteng	Limpopo		State				
PROVINCE	Mpumalanga		Limpopo			Natal			
		<b>Gauteng</b> 3.0 (2)	Limpopo		State 2.9				
PROVINCE	Mpumalanga		Limpopo		State	Natal			
PROVINCE Average	Mpumalanga	3.0 (2)		West	2.9 (7)	Natal 2.0 (2)	Cape	Cape	Cape
PROVINCE Average	Mpumalanga	3.0 (2)		West	2.9 (7)	Natal 2.0 (2)	Cape	Cape	Cape
PROVINCE  Average  Level of impo	Mpumalanga	3.0 (2)		West	State 2.9 (7) e case b	Natal 2.0 (2)	Cape	Cape	Cape
PROVINCE  Average  Level of impo	Mpumalanga	3.0 (2)		West	2.9 (7)	Natal 2.0 (2)	Cape	Cape	Cape

Dairy					3.0				
Daliy					(1)				
Sheep	1.0(1)	3.0 (1)			2.8 (4)	2.0 (1)			
Goat	1.0(1)						_		
Mpumalang	. ,								
	four Diereklin	iek							
Beef: 1, Shee									
	<b>Longtom Dier</b>	ekliniek							
Beef: 3									
Gauteng									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Beef: 3, Shee	p: 3								
Free State									
	in, Dr Stephar	n Wessels							
Sheep: 3									
	ocolan Dierek	liniek							
Sheep: 2									
	Oosvrystaat Di	iere Produ	ıkte						
	/: 3, Sheep: 3								
	loopstad Dier	ekliniek							
Sheep: 3									
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na			_•						
	nowe Veterina	iry nospit	aı						
Beef: 2, Shee	:μ: Z								
Screw-wo	orm								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)	1.0 (1)						
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef	2.0(1)	2.0(1)	1.0(1)						
Mpumalang	a								
	elspruit Anim	al Hospita	ıl						
Beef: 2	•								
Gauteng									
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2									
Fly-strike									
Limpopo									
	Bundu Veterir	nary Servi	ces						
Beef: 1									
Nasal bot	larvae								^

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 (1)	2.3 (4)	2.3 (3)			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									

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

Sheep	2.0 (1)	2.0 (1)	3.0	(1) 2.3 (4)	2.3 (3)	3.0 (1)
Goat	2.0(1)					

# Mpumalanga

# Piet Retief, Pets Vet Hospital

Sheep: 2, Goat: 2
Gauteng

# **Bronkhorstspruit, Kerkstraat Dierekliniek**

Sheep: 2
North West

# Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3
Free State

# Hoopstad, Hoopstad Dierekliniek

Sheep: 3

# Oranjeville, Grasveld Kuddegesondheid

Sheep: 3

# **Reitz, Riemland Dierehospitaal**

Sheep: 2

# Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

## Kwazulu-Natal

# **Eshowe, Eshowe Veterinary Hospital**

Sheep: 3

# **Estcourt, Estcourt Vet Clinic**

Sheep: 2

# **Newcastle, Ncanduvet Newcastle**

Sheep: 2

### **Northern Cape**

# Colesberg, Karoo Veterinary Hospital

Sheep: 3

Midges										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.5 (4)	2.0 (3)		3.0 (1)	2.7 (7)	3.0 (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	2.3 (3)		3	3.0 (1)	2.7 (3)	3.0 (1)	1.0 (1)	
Dairy		2.0 (1)	_					
Sheep	3.0 (1)	2.0 (1)			2.8 (4)	3.0 (1)		
Goat		2.0 (1)						
Mpumalang								
	lfour Diereklir	niek						
Beef: 1								
	Longtom Die	rekliniek						
Beef: 3, She								
	Nelspruit Anim	ial Hospita						
Beef: 3								
Gauteng	l D' C							
	l Diere Spreek	kamer						
	eep: 2, Goat: 2							
North West		-1-1::-1-						
Potcnerstro Beef: 3	oom, Bult Dier	екипіек						
Free State								
	, Bethlehem A	nimal Hoer	ital					
Beef: 3, She		ішнаі поэр	ıtaı					
	ein, Dr Stepha	n Wassals						
Sheep: 3	eni, Di Stepha	ii vvesseis						
	locolan Dierel	diniek						
Beef: 2, She		· · · · · · · · · · · · · · · · · · ·						
	, Grasveld Kud	ldeaesondl	neid					
Beef: 3, She								
Kwazulu-N								
	Underberg Vo	eterinary S	urgery					
Beef: 3, She		•						
Western Ca								
	n, Ostrimed							
Beef: 1								

Mosquitoes										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		2.0 (3)		3.0 (2)	2.4 (5)				2.0 (1)	

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

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

Gauteng									
	Diere Spreekl	camer							
	ep: 2, Goat: 2	· aiiici							
North West	cp. 2, dodd. 2								
	om, Bult Diere	kliniek							
Beef: 3, Shee	•								
ree State	p. 5								
	Greylingsrust	Dierespr	eekkamer						
Beef: 3									
	ocolan Dierek	liniek							
Beef: 2, Shee									
	nel Veterinary	Clinic							
Beef: 2									
Winburg, W	inburg Dierek	liniek							
Beef: 3									
lorthern Ca	ре								
(uruman, K	uruman Diere	kliniek							
Sheep: 2									
Tampans									
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 one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				2.0(1)					
North West									
	olopo Diereklir	niek							
	ne Disease	S							
African re	ed water								2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.0				
Average	1.8 (4)		2.0 (1)	2.3 (3)	2.0 (3)	2.3 (9)		2.2 (5)	
Level of impo	1.8 (4) ortance scale: 1	= one case					en and 3 =		10 cases
Level of imporeported	. ,	= one case		than one	e case b		en and 3 =		10 cases
Average  Level of impore ported  Beef  Dairy	ortance scale: 1	= one case	e, 2 = more	than one	2.5 (2)	ut less than t	en and 3 =	more than	10 cases
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than one 2.0 (2)	2.5 (2)	ut less than to	en and 3 =	more than 2.0 (3)	10 cases

Lydenburg, Longtom Dierekliniek Beef: 2 Piet Retief, Pets Vet Hospital **Standerton, Econovet** Beef: 2 Limpopo Makhado, Blouberg Dierekliniek Beef: 2 **North West** Leeudoringstad, Leeudoringstad Dierekliniek Dairy: 3 Dairy calves brought into the area Schweizer-Reneke, Buffeldoorn Dierekliniek SR Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State** Clocolan, Clocolan Dierekliniek Dairy: 1 Harrismith, Harrismith Dierehospitaal Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 3, Dairy: 2 **Eshowe, Eshowe Veterinary Hospital** Beef: 3 **Kokstad, E.G.Veterinary Services** Beef: 3 Increase in tick population **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 2 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 2 Sporadic cases **Western Cape Caledon, Caledon Dierekliniek** Beef: 2 **Caledon, Overberg Veterinary Hospital** Beef: 2 **Darling, Tygerberg Dierehospitaal Darling** Beef: 2 George, George Herd Heath Consult Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Asiatic re	d water								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (7)	2.0 (2)	1.0 (1)	1.0 (1)	1.5 (4)	1.9 (9)	1.3 (3)	2.0 (1)			
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases reported											
Beef	2.3 (7)	2.0 (2)	1.0 (1)	1.0 (1)	1.5 (4)	1.9 (8)	1.3 (3)				
Dairy						2.0(1)		2.0(1)			
, Mpumalang	a										
Beef: 2 <b>Lydenburg,</b> Beef: 2	four Diereklin  Longtom Dier  Lydenburg Die	ekliniek	kamer								
Beef: 3 <b>Middelburg</b> , Beef: 2	, Neil Fourie V	eeartseny	dienste								
	Pets Vet Hosp	ital									
Beef: 3	rets vet nosp	ıtaı									
Standerton,	Econovet										
Beef: 2											
Volksrust, G	Grasslands vet	clinic									
Beef: 2											
Gauteng											
	spruit, Kerkstr	aat Diere	kliniek								
Beef: 2											
	ton Diereklini	ek									
Beef: 2											
Limpopo											
Makhado, B Beef: 1	louberg Diere	кипіек									
North West											
	, Bergbos Dier	ekliniek									
Beef: 1	, 20. 3003 Dici	CKIIIICK									
Free State											
	ocolan Dierek	liniek									
Beef: 1											
	Harrismith Die	erehospit	aal								
Beef: 2											
	nel Veterinary	Clinic									
Beef: 2											
	shoek Dierege	sondheid	•								
Beef: 1											
Kwazulu-Na		·									
Bergville, B	ergville Veteri	nary Clini	С								

Camperdown, Camperdown Vet Clinic

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 2, Dairy: 2

**Eshowe, Eshowe Veterinary Hospital** 

Beef: 2

**Kokstad, E.G.Veterinary Services** 

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic** 

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

**Underberg, Underberg Veterinary Surgery** 

Beef: 2

**Eastern Cape** 

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

**Bathurst, Dr Jane Pistorius** 

Beef: 1

Four month of age, old calf

Stutterheim, Stutterheim Veterinary Clinic

Beef: 2

One outbreak; one bull died despite been vaccinated

**Western Cape** 

George, George Herd Heath Consult

Dairy: 2

Anaplasmosis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.3 (4)		1.0 (1)	2.5 (4)	2.0 (11)	2.1 (7)	1.3 (3)	1.6 (8)	2.0 (1)	

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

Beef	2.3 (4)	1.0 (1)	2.5 (4)	2.0 (11)	2.0 (5)	1.3 (3)	1.5 (2)	2.0 (1)
Dairy					2.5 (2)		1.7 (6)	

### Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

Standerton, Econovet

Beef: 2 **Limpopo** 

Vaalwater, Vaalwater Dierespreekkamer

Beef: 1 Calf

**North West** 

Christiana, Christiana Dierehospitaal Beef: 3 Schweizer-Reneke, Buffeldoorn Dierekliniek SR Stella, Stella Dierekliniek Beef: 3 Vryburg, Molopo Dierekliniek Beef: 2 **Free State Bethlehem, Bethlehem Animal Hospital Bethlehem, Union Street Animal Consulting Rooms Bloemfontein, Dr Stephan Wessels** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 **Dewetsdorp, Platkop Dierekliniek Excelsior, Weltevrede Dierekliniek** Beef: 3 Harrismith, Harrismith Dierehospitaal Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3 Hoopstad, Kameeldoring Dierekliniek Beef: 2 **Kroonstad, Kroonstad Dierehospitaal** Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Estcourt, Estcourt Vet Clinic** Beef: 1, Dairy: 3 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek Beef: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic Queenstown, Queenstown Veterinary clinic** Beef: 1 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Beef: 2, Dairy: 2 George, George Herd Heath Consult Dairy: 2

Malmesbury, Bergzight Dierehospitaal

Dairy: 2

# Malmesbury, Dr Otto Kriek

Dairy: 1

A concerted effort should be made to vaccinate young stock at 3-9 months of age. This really helps to reduce the incidence of this disease.

### Riversdale, Riversdal Dierekliniek

Dairy: 1

# Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

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

Dairy: 2

### **Northern Cape**

# Kuruman, Kuruman Dierekliniek

Beef: 2

Heartwater											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.1 (8)	2.0 (9)	2.3 (4)	2.3 (9)		2.3 (8)	2.0 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 1 reported											
Beef	2.0 (4)	1.8 (4)	2.3 (3)	2.2 (6)		2.0 (5)	3.0 (1)				

Beef	2.0 (4)	1.8 (4)	2.3 (3)	2.2 (6)	2.0 (5)	3.0 (1)	
Sheep	2.5 (2)	2.5 (2)		3.0 (1)			
Goat	2.0 (2)	2.0 (3)	2.0 (1)	2.5 (2)	2.7 (3)	1.0(1)	

# Mpumalanga

# Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

# Lydenburg, Lydenburg Dierespreekkamer

Beef: 2, Sheep: 3

# **Nelspruit, Nelspruit Animal Hospital**

Beef: 2, Goat: 2

# Piet Retief, Pets Vet Hospital

Beef: 2 Gauteng

### **Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 1

# **Hammanskraal, Themba Animal Clinic**

Beef: 3, Sheep: 3, Goat: 3

Krugersdorp, Veearts Netwerk

Beef: 1

# Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

# **Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2, Goat: 2

# Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Goat: 1 **Limpopo** 

# Makhado, Blouberg Dierekliniek

Beef: 3 Twelve cases

Modimolle,	Modimolle, Kranskop Dierekliniek									
Goat: 2	Goat: 2									
Mokopane,	<b>Bundu Veterin</b>	ary Servi	ces							
Beef: 2										
Tzaneen, ZZ	22 Farm Practi	ce								
Beef: 2										
<b>North West</b>										
Brits, Brits I	Dierekliniek									
Beef: 2, Goat										
	c Dierekliniek									
Beef: 2										
	, Bergbos Dier	ekliniek								
Beef: 1	, _ = : 5 _ = : = :									
	a Dierekliniek									
Beef: 3										
	olopo Diereklir	niek								
Beef: 2	Diopo Dierekiii	IICK								
	ontuur veterin	ary Pract	ice							
Beef: 3, Shee		ary Fract								
Kwazulu-Na										
	itai ergville Veteri	nany Clini	_							
Beef: 2	ergyme veteri	iiai y Ciini								
	domani Hand k									
	dumeni Herd l	neaith								
Beef: 2	taat Vat Cli	-!-								
	tcourt Vet Clir	1IC								
Beef: 2, Goat										
	Mtubatuba Ar	nımai Clin	IC							
Beef: 3, Goat										
	zburg, Veterin	ary House	e Hospital							
Beef: 1										
	ngola Animal	Clinic								
Goat: 2										
Eastern Cap										
	Riverview Tra	ding Vet	Consulting	<b>Service</b>	es					
Beef: 3										
Bathurst, D	r Jane Pistoriu	IS								
Goat: 1										
Constina	Cielmone								_	
Sweating	Sickness									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern	
				West	State	Natal	Cape	Cape	Cape	
					1.7					
Average		2.0 (1)	2.0 (1)	2.0 (7)	(7)			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		2.0 (1)	2.0 (1)	2.0 (7)	1.7			1.0 (1)		
					(7)					
Gauteng										
	spruit, Kerkstr	aat Diere	kliniek							
Beef: 2										
Limpopo										

Makhado. B	Blouberg Diere	kliniek							
Beef: 2									
Six cases									
North West									
	Dierekliniek								
Beef: 2	Dicickiiiick								
	Christiana Die	rohosnita	al						
Beef: 3	Cili istialia bie	Cilospica	ÇII .						
	g, Dr CM Kruge	r-Pall							
Beef: 1	g, Di Chi Kiuge	ı ıxuıı							
	, Bergbos Dier	ekliniek							
Beef: 1	, beigbos biei	CKIIIICK							
	Reneke, Buffel	doorn Die	rekliniek	SR					
Beef: 2	Keneke, Burier	doorn bic	- CKIIIICK	JIX					
	a Dierekliniek								
Beef: 3	a Dielekiiiiek								
	ontuur veterin	ary Pract	ice						
Beef: 2	JILUUI VELEIIII	ary riact							
Free State									
	in, Dr Stephan	Wessels							
Beef: 2	, Di Stepilali	11633613							
	, Greylingsrust	Diereenr	ookkamer						
Beef: 2	, Greyningsrust	. Dielespi	CCKKailici						
	Hoopstad Diere	kliniak							
Beef: 3	loopstau Diere	KIIIICK							
	Kroonstad Die	rohoenita	al						
Beef: 1	Ki oonstaa Die	renospita	aı						
	nekal Dierekli	niok							
Beef: 1	ilekai Dielekii	IIICK							
	arden Diereklii	niek							
Beef: 1	arden Dierekin	iick							
	/inburg Dierek	liniak							
Beef: 2	miburg bierek	IIIIICK							
Western Ca	no.								
	:h, Stellenbosc	h Animal	<b>⊔ocnital</b>						
Beef: 1	ii, Stellelibosc	II Allillai	поэрна						
	ransmittab	le Dise	ases						
Lumpy sk	kin disease								2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.5 (2)		2.0 (1)	2.0 (2)	2.0 (2)		2.6 (10)	
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 (2)	2.5 (2)		2.0 (1)	2.0 (2)	2.0 (2)		2.6 (5)	
Dairy					(-)			2.6 (5)	
- a ,								-2.0(3)	

Mpumalanga

Lydenburg, Lydenburg Dierespreekkamer

Beef: 2

Piet Retief, Pets Vet Hospital

Beef: 2

Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Beef: 3

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

Allerton virus (pseudo lumpy skin disease)

**North West** 

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2
Free State

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

**Dundee, Endumeni Herd health** 

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 1

**Western Cape** 

Caledon, Caledon Dierekliniek

Beef: 3

Caledon, Overberg Veterinary Hospital

Beef: 3

George, George Animal Hospital

Beef: 3, Dairy: 3

**George, George Herd Heath Consult** 

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Riversdale, Riversdal Dierekliniek

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1 Grabouw

**Worcester, Durban Straat Dierekliniek Worcester** 

Beef: 3

Three-day-stiffsickness											
PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Eastern Cape Cape											
Average	3.0 (1)	2.0 (1)	1.5 (2)		2.0 (7)	1.7 (3)		2.5 (2)	2.0 (1)		

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

Beef	3.0 (1)	2.0 (1)	1.5 (2)		2.0 (7)	1.7 (3)		2.0 (1)	2.0 (1)
Dairy								3.0 (1)	
Mpumalanga	a								
	four Diereklini	iek							
Beef: 3									
Gauteng									
<b>Bronkhorsts</b>	pruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
Limpopo									
Makhado, B	louberg Dierel	kliniek							
Beef: 2									
Four cases									
Tzaneen, ZZ	2 Farm Practi	ce							
Beef: 1									
Free State									
Bethlehem,	Bethlehem An	imal Hosp	oital						
Beef: 2									
Bethlehem,	Union Street /	<b>Animal Co</b>	nsulting R	Rooms					
Beef: 2									
<b>Bultfontein</b> ,	Greylingsrust	Dierespre	eekkamer						
Beef: 1									
Kroonstad, I	Kroonstad Die	rehospita	al						
Beef: 2									
Reitz, Rieml	and Dierehos	oitaal							
Beef: 2									
Senekal, Sei	nekal Dierekli	niek							
Beef: 2									
Warden, Wa	ırden Dierekliı	niek							
Beef: 3									
Kwazulu-Na	tal								
	Mtubatuba Ar	imal Clini	ic						
Beef: 2									
	Ncanduvet Ne	wcastle							
Beef: 1									
Pongola, Po	ngola Animal	Clinic							
Beef: 2									
Western Cap									
	orge Herd Hea	th Consult	t						
Dairy: 3									
	, Vredenburg I	Dierehosp	itaal						
Beef: 2									
Adjacent to riv									
Northern Ca	-								
	uruman Diere	kliniek							
Beef: 2									
Blue tong	ue								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		1.0 (2)	2.0 (1)	1.0 (1)	1.0 (2)		3.0 (1)	1.5 (4)	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	l0 cases
Beef				1.0(1)					
Dairy				110 (1)				1.0(1)	
Dail y					1.0			1.0 (1)	
Sheep		1.0 (1)	2.0 (1)		1.0 (2)		3.0 (1)	1.7 (3)	3.0 (1)
Goat		1.0(1)							
Sheep: 1	spruit, Kerkstr iima Veterinar			•					
Goat: 1		-	_						
	louberg Diere	kliniek							
Sheep: 2									
North West		doorn Die	valdiniak (	CD					
Beef: 1	Reneke, Buffel	doorn Die	гекипіек :	<b>SK</b>					
Free State									
	in, Dr Stephan	Wessels							
Sheep: 1	iii, Di Ocepiiaii	111055015							
	Greylingsrust	Dierespr	eekkamer						
Sheep: 1	, <b>,</b>								
Eastern Cap	e								
	, Cape Cross \	/eterinary	Hospital						
Sheep: 3	<u> </u>	-	•						
<b>Western Ca</b>	pe								
	orge Herd Hea	th Consult	-						
Dairy: 1									
	y, Bergzight Di	erehospit	aal						
Sheep: 1									
	h, Stellenbosc	h Animal I	Hospital						
Sheep: 1	Wallington Di								
Sheep: 3	Wellington Di	erenospic	ddi						
Northern Ca	ano.								
	uruman Diere	kliniek							
Sheep: 3									
Nagana									_
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 to	en and 3 =	more than I	10 cases

Beef						3.0 (1)	1		
Kwazulu-Na	tal					3.0 (1)			
	Mtubatuba Ar	nimal Clin	ic						
Beef: 3	Pitubatuba Ai	iiiiai Ciiii							
Venerea	l Diseases								
Trichomo	nosis								^
					_	.,			
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
				West	State	Ivacai	Cape	Cape	Сарс
					2.4				
Average	2.3 (3)	1.0(1)		2.5 (4)	(8)	1.5 (2)			1.7 (3)
					(8)				
Lovel of impe	ortance scale: 1	- one cas	2 – more	than on	o caco h	ut loce than t	on and 2 —	more than	10 cases
reported	ortance scale: 1	= one case	e, z = more	: uiaii oii	e case b	ut less than t	en and 5 =	inore man	10 Cases
reported						1	•		
Beef	2.3 (3)	1.0(1)		2.5 (4)	2.4	1.5 (2)			1.7 (3)
Deei	2.3 (3)	1.0 (1)		2.5 (+)	(8)	1.3 (2)			1.7 (3)
Mpumalang	a								
Bethal, Beth	nal Diereklinie	k							
Beef: 2									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 2									
	irasslands vet	clinic							
Beef: 3									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
North West									
Beef: 3	a Dierekliniek								
	olopo Diereklir	siok							
Beef: 3	Diopo Dierekili	IICK							
	yburg Prov Ve	t Laborate	nrv						
Beef: 2	, burg i lov ve	c Laborac	J. Y						
	ds in Naledi Dis	trict with 1	0 positive a	nimals. A	total of	8 herds and	63 animals	were tested	I.
•	ontuur veterin		•						
Beef: 2									
Free State									
Bethlehem,	<b>Bethlehem Ar</b>	imal Hos	pital						
Beef: 2									
	, Platkop Dier	ekliniek							
Beef: 3									
· · · · · · · · · · · · · · · · · · ·	rankfort Diere	kliniek							
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3	/nmoolde:::==	Dioreldie:	alz.						
	(ameeldoring	Dierekiini	EK						
Beef: 1									

Kroonstad, Kroonstad Dierehospitaal

Senekal, Senekal Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek Beegr: 3 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 1 Dundee, Endumeni Herd health Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North State State Natal Cape Cape Cape Average 2.0 (1) 2.0 (3) 2.0 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef: 2 Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 Prostate Clocolan, Clocolan Dierekliniek Beef: 2 Powestad, Kameeldoring Dierekliniek Beef: 2 Powestad, Vinburg Dierekliniek Beef: 2 Boggia Cape Kathu Dierekliniek Beef: 2 Boggia Cape Cape Wester Dierekliniek Beef: 2 Boggia Cape Cape Wester Dierekliniek Beef: 2 Boggia Cape Cape Wester Dierekliniek Beef: 2 Boggia Cape Cape Cape Cape Cape Cape Cape Cap										
Beef: 3 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 1 Dundee, Endumeni Herd health Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Beef: 2									
Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 1 Dundee, Endumeni Herd health Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Rimberley, Kimberley Dierekliniek Beef: 2 PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Winburg, W	inburg Dierek	liniek							
Bergville, Bergville Veterinary Clinic Beef: 1 Dundee, Endumeni Herd health Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 1 Kimberley, Kimberley Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape Northern Cape (Cape Northern Cape Northern Cape Northern Cape North Mest Northern Cape Nort	Beef: 3									
Beef: 1 Dundee, Endumeni Herd health Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo West State Natal Eastern Cape Cape Cape Cape Cape Cape Cape Cape	Kwazulu-Na	ıtal								
Dundee, Endumeni Herd health Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Average 2.0 (1) 2.0 (3) 2.0 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef: 2 Mpumalanga Beef: 2 North West Vyburg, Vyburg Prov Vet Laboratory Beef: 2 Positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Price State Clocolan, Clocolan Dierekliniek Beef: 2 Price State Clocolan, Clocolan Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 3 Excelsior, Winburg Dierekliniek Beef: 3 Excelsior, Winburg Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 4 Excelsior, Weltevrede Dierekliniek	Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2 Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Cape Cape Cape  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 North West Vryburg, Wryburg Prov Vet Laboratory Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Welteverde Dierekliniek Beef: 2 Dewetsdorp, Welteverde Dierekliniek Beef: 2 Nopstate Hords in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Welteverde Dierekliniek Beef: 2  Powetsdorp, Welteverde Dierekliniek Beef: 2  Moopstad, Kameeldoring Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Senekal, Senekal Dierekliniek Beef: 3  Senekal, Senekal Dierekliniek Beef: 3  Senekal, Senekal Dierekliniek Beef: 3  Senekal Senekal Dierekliniek	Beef: 1									
Northern Cape Kathu, Kathu Dierekliniek Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 1 Kuruman, Kuruman Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Cape  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 North West Vryburg, Molopo Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 Positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerets 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Welteverde Dierekliniek Beef: 2 Dewetsdorp, Welteverde Dierekliniek Beef: 2 Beoopstad, Kameeldoring Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Benosal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Beatsern Cape	Dundee, End	dumeni Herd h	nealth							
Kathu, Kathu Dierekliniek Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 1 Kuruman, Kuruman Dierekliniek Beef: 2  Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Matal Cape Cape Cape Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West Vryburg, Molopo Dierekliniek Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  Pree State Clocolan, Clocolan Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 2  Moopstad, Kameeldoring Dierekliniek Beef: 2  Moopstad, Kameeldoring Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Senekal, Senekal Dierekliniek Beef: 3  Senekal Dierekliniek Beef: 4  Senekal Dierekliniek Beef: 5  Senekal Dierekliniek Beef: 5  Senekal Dierekliniek Beef: 6  Senekal Dierekliniek Beef: 6  Senekal Dierekliniek	Beef: 2									
Beef: 2 Kimberley, Kimberley Dierekliniek Beef: 1 Kuruman, Kuruman Dierekliniek Beef: 2 Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Northern Cape Cape Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 North West Vryburg, Molopo Dierekliniek Beef: 2 Powyther of in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2 Powetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 3 Estern Cape										
Kimberley, Kimberley Dierekliniek Beef: 1 Kuruman, Kuruman Dierekliniek Beef: 2  Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Kuazulu- Cape Cape Cape  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West Vryburg, Molopo Dierekliniek Beef: 2  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West Vryburg, Molopo Dierekliniek Beef: 2  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Molopo Dierekliniek Beef: 2  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Molopo Dierekliniek Beef: 2  Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Average 2.0 (1) 2.0 (1) 1.0 (2)  Average 2.0 (1) 2.0 (1) 1.0 (2)		u Dierekliniek								
Beef: 1 Kuruman, Kuruman Dierekliniek Beef: 2  Vibriosis  PROVINCE Mpumalanga Gauteng  Limpopo  2.0 (3)  2.0 (3)  2.2 (6)  2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  2.0 (1)  2.0 (3)  2.0 (6)  2.0 (1)  1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West Vryburg, Molpop Dierekliniek Beef: 2  2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2  Pree State Clocolan, Clocolan Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 2  Phoopstad, Kameeldoring Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 3  Esceter Cape										
Kuruman, Kuruman Dierekliniek Beef: 2  Vibriosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Northern Cape 2.0 (1)  2.0 (3) 2.2 (6)  2.0 (1) 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (1) 2.0 (3) 2.2 (6)  Reef: 2 (2) 2.0 (1) 2.0 (1) 2.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2 North West Vryburg, Vryburg Prov Vet Laboratory Beef: 2 Yryburg, Vryburg Prov Vet Laboratory Beef: 2 Positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Pree State Clocolan, Clocolan Dierekliniek Beef: 2 Powetsdorp, Platkop Dierekliniek Beef: 2 Powetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		Kimberley Die	rekliniek							
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West Vryburg, Molopo Dierekliniek Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  Zecrust, Avontuur veterinary Practice Beef: 2  Pree State Clocolan, Clocolan Dierekliniek Beef: 2  Beef: 3  Beef: 1  Senekal, Senekal Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Beef: 3  Beafed: 3  Beafer: 1  Senekal, Senekal Dierekliniek Beef: 3  Beef: 1  Senekal, Senekal Dierekliniek Beef: 3  Beafe: 3  Beafer: 4  Beafer: 4  Beafer: 5  Beafer: 6  Beafer: 7  Beafer: 8  Beafer: 9  Beafe		·								
PROVINCE Mpumalanga Gauteng Limpopo West Free State Natal Eastern Cape Northern Cape  2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Region Dierekliniek  Beef: 2  North West Vryburg, Longtom Dierekliniek  Beef: 2  North West Vryburg, Molopo Dierekliniek  Beef: 2  Prostive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice  Beef: 2  Free State  Clocolan, Clocolan Dierekliniek  Beef: 2  Dewetsdorp, Platkop Dierekliniek  Beef: 2  Powetsdorp, Platkop Dierekliniek  Beef: 2  Bowetsdorp, Weltevrede Dierekliniek  Beef: 1  Senekal, Senekal Dierekliniek  Beef: 1  Senekal, Senekal Dierekliniek  Beef: 3  Eastern Cape	Kuruman, K Beef: 2	uruman Diere	kliniek							
Average 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West  Vryburg, Molopo Dierekliniek Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2  Free State Clocolan, Clocolan Dierekliniek Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Esstern Cape	Vibriosis									<u>^</u>
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 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  North West  Vryburg, Molopo Dierekliniek Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2  Free State Clocolan, Clocolan Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 2  Excelsior, Weltevrede Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 2  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Eastern Cape	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Reef 2.0 (1) 2.0 (3) 2.2 (6) 2.0 (1) 1.0 (2)  Mpumalanga Lydenburg, Longtom Dierekliniek Beef: 2  Vryburg, Molopo Dierekliniek Beef: 2  Vryburg, Vryburg Prov Vet Laboratory Beef: 2  2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2  Free State Clocolan, Clocolan Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Estern Cape	Average	2.0 (1)			2.0 (3)	2.2 (6)		2.0 (1)		1.0 (2)
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Lydenburg, Longtom Dierekliniek Beef: 2 North West Vryburg, Molopo Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Estern Cape	Beef	2.0 (1)			2.0 (3)			2.0 (1)		1.0 (2)
Beef: 2 North West Vryburg, Molopo Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape										
North West Vryburg, Molopo Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		Longtom Dier	ekliniek							
Vryburg, Molopo Dierekliniek Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape										
Beef: 2 Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested. Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape										
Vryburg, Vryburg Prov Vet Laboratory Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Estern Cape		olopo Diereklir	niek							
Beef: 2 2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice  Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape										
2 positive herds in Naledi District with 4 positive animals. A total of 8 herds and 63 animals were tested.  Zeerust, Avontuur veterinary Practice  Beef: 2  Free State  Clocolan, Clocolan Dierekliniek  Beef: 2  Dewetsdorp, Platkop Dierekliniek  Beef: 3  Excelsior, Weltevrede Dierekliniek  Beef: 2  Hoopstad, Kameeldoring Dierekliniek  Beef: 1  Senekal, Senekal Dierekliniek  Beef: 2  Winburg, Winburg Dierekliniek  Beef: 3  Eastern Cape		yburg Prov Ve	t Laborate	ory						
Zeerust, Avontuur veterinary Practice Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		de in Naladi Dis	trict with 4	nocitive an	imala A	total of C	hords and C	2 animala :	word tacted	
Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape	•			•	iiiidis. A	total OI 8	o nerus dilu b	o ailiilidis V	were tested.	
Free State Clocolan, Clocolan Dierekliniek Beef: 2 Dewetsdorp, Platkop Dierekliniek Beef: 3 Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape	•	Jiituui VELEIIII	ury Fract							
Clocolan, Clocolan Dierekliniek Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Eastern Cape										
Beef: 2  Dewetsdorp, Platkop Dierekliniek Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Eastern Cape		ocolan Dierek	liniek							
Beef: 3  Excelsior, Weltevrede Dierekliniek Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Eastern Cape	Beef: 2									
Excelsior, Weltevrede Dierekliniek Beef: 2 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape	Dewetsdorp	, Platkop Dier	ekliniek							
Beef: 2  Hoopstad, Kameeldoring Dierekliniek Beef: 1  Senekal, Senekal Dierekliniek Beef: 2  Winburg, Winburg Dierekliniek Beef: 3  Eastern Cape	Beef: 3									
Hoopstad, Kameeldoring Dierekliniek Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		/eltevrede Die	rekliniek							
Beef: 1 Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		ameeldoring	Diereklini	ek						
Senekal, Senekal Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape			<del></del>							
Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape		nekal Dierekli	niek							
Winburg, Winburg Dierekliniek Beef: 3 Eastern Cape	Beef: 2		-							
Beef: 3  Eastern Cape		inburg Dierek	liniek							
•	Beef: 3									
Queenstown, Queenstown Veterinary clinic	Eastern Cap	е								
	Queenstow	n, Queenstowi	1 Veterina	ry clinic						

Beef: 2									
Northern Ca	_								
Kathu, Kath	u Dierekliniek								
Beef: 1									
Kimberley,	Kimberley Die	rekliniek							
Beef: 1									
Pizzle dis	sease								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					1.0 (1)				
Free State									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	.,								
Bacteria	l Disease (	other)							
Blackqua	rter								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	1.0 (1)		2.0 (1)	1.8 (8)	1.0 (1)		1.5 (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 (2)	1.0(1)		2.0 (1)	1.7 (7)	1.0 (1)			
Dairy								1.5 (2)	
Sheep	2.0 (1)				2.0 (1)			, , ,	
Mpumalang	a								
	four Diereklin	iek							
Beef: 1									
	irootvlei Diere	kliniek							
Beef: 1									
Piet Retief,	<b>Pets Vet Hosp</b>	ital							
Sheep: 2									
Sheep: 2  Gauteng									
Sheep: 2 Gauteng Bapsfontein	ı, Bapsfontein	Dierehos	pitaal						
Sheep: 2 <b>Gauteng Bapsfonteir</b> Beef: 1	·	Dierehos	pitaal						
Sheep: 2 Gauteng Bapsfontein	·	Dierehos	pitaal						

Locudorina	stad, Leeudori	nactad Di	orokliniok						
Beef: 2	stau, Leeuuori	iiystau Di	CICKIIIICK						
	مادما مادم	d:th tatua	a ralin a						
Free State	n calves, blocked	ı willi tella	сусппе						
	Ilmian Chuach	Animal Ca	mandelma D						
	Union Street	Animai Co	nsuiting K	cooms					
Beef: 2	l l <b>D</b> ' l.								
	locolan Dierek	liniek							
Sheep: 2	· - · - · · · · · · · · · ·								
	p, Platkop Dier	ekliniek							
Beef: 2									
	Oosvrystaat Di	ere Produ	ıkte						
Beef: 2									
	Harrismith Di	erenospita	aaı						
Beef: 2									
	Kroonstad Die	renospita	aı						
Beef: 1									
_	on, Viljoenskro	oon Dierel	kiiniek						
Beef: 1									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na									
	zburg, Veterin	ary House	Hospital						
Beef: 1									
Western Ca									
	iledon Dierekli	піек							
Dairy: 2									
	orge Herd Hea	th Consul	t						
Dairy: 1									
Botulism									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)					3.0 (1)
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				1.0(1)					3.0 (1)
North West									
Christiana, Beef: 1	Christiana Die	rehospita	al						
Northern C	ape								
	Jpington Veeaı	rtsenvklin	iek						
Beef: 3	<u> </u>	,							
Kalahari-Wes	t								
Pulpy Kid	iney								^

						_			
	1.7.(2)	2.0.(2)		1.0 (1)	2.0		2.2.(2)	1.0 (1)	2.0 (1)
Average	1.5 (2)	2.0 (2)		1.0(1)	(6)		2.3 (3)	1.0 (1)	2.0 (1)
					(0)				
Level of impo	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
reported			,						
•					2.0				
Sheep	1.5 (2)	2.0 (2)		1.0 (1)	2.0 (6)		2.3 (3)	1.0 (1)	2.0 (1)
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Sheep: 1									
	<b>Longtom Dier</b>	ekliniek							
Sheep: 2									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Sheep: 2	1. 17 1 .								
	spruit, Kerkstr	aat Dierel	kliniek						
Sheep: 2									
North West			•						
	Christiana Die	rehospita	al						
Sheep: 1									
Free State	D. Glasska								
	in, Dr Stephan	wessels							
Sheep: 2		. 1.12							
	loopstad Diere	ekliniek							
Sheep: 3	.,		•						
	Kroonstad Die	renospita	aı						
Sheep: 2	l d D' d								
	land Dierehos	pitaai							
Sheep: 2									
	arden Dierekli	піек							
Sheep: 2		. D'							
	n, Wesselsbro	n Dierekii	піек						
Sheep: 1									
Eastern Cap									
	adock Veterin	ary Clinic							
Sheep: 3	'  Ct		:::- /FCF\	\l					
	ocal Symmetrica	•		only vacc	inated o	nce with pulp	y kianey va	iccine	
	et, Camdeboo	veterinar	y Clinic						
Sheep: 1	Ctarmah F	\!avabaan!	I						
	, Steynsburg D	vierenospi	taai						
Sheep: 3	with FSE (Focal	cummotrics	l onconhali	tic)					
Western Ca		Symmetrica	пенсернан	us)					
Oudtshoorn	-								
Sheep: 1	, Ostrinieu								
Northern Ca	no								
	ape Karoo Veterina	ny Hoenit	al						
Sheep: 2	TOTAL ACTORNIA	ii y i iospit	W1						
Silecpi Z									
Lamb dys	sentry								^
DDOVINCE	Mpumalanga	Gautone	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	мришанапда	Gauteng	гиироро	West	State	Natal	Cape	Cape	Cape

Average					2.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)				
Free State									
	arden Dierekli	niek							
Sheep: 2									
Swelled h	nead diseas	е							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	2.0 (1)		1.7 (3)	2.0 (1)		1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef			2.0 (1)		2.0 (2)				_
Dairy								2.0 (1)	
Sheep		1.0 (1)			1.0 (1)	2.0 (1)		1.0 (1)	
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Sheep: 1									
Limpopo	D								
	Bundu Veterin	ary Servi	ces						
Beef: 2 Free State									
	land Dierehos	nitaal							
Beef: 2	iana Dierenos	picaai							
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 1	, vjoe	JOIN J. 101 C.							
	arden Dierekli	niek							
Beef: 2									
Kwazulu-Na	atal								
Vryheid, Vry	yheid Privaat \	/eeartse							
Sheep: 2									
Western Ca									
	est, Beaufort \	Nest State	e Vet						
Sheep: 1									
	ırg, Korhaanru	g Dierege	sondheid						
Dairy: 2									
Ped aut (	cattle)								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)				1.5 (2)	1.5 (2)		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 :	LO cases		
Beef	1.0 (2)				1.5 (2)	1.0 (1)					
Dairy						2.0 (1)		1.0(1)			
Mpumalang	а										
	four Diereklin	iek									
Beef: 1											
Bethal, Bethal Dierekliniek											
Beef: 1											
Free State											
Bethlehem, Bethlehem Animal Hospital											
Beef: 2											
Kroonstad, Kroonstad Dierehospitaal Beef: 1											
Kwazulu-Na	ıtal										
		nealth									
Dundee, Endumeni Herd health  Dairy: 2											
Newcastle, Ncanduvet Newcastle											
Beef: 1											
<b>Western Ca</b>	pe										
	jerberg Diereh	ospitaal [	Darling								
Dairy: 1											
Blood gu	t (Sheep)								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average								1.0(1)	2.5 (2)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Sheep								1.0(1)	2.5 (2)		
Western Ca	ne								· /		
	h, Stellenbosc	h Animal	Hospital								
Sheep: 1	•										
Northern Ca											
	uruman Diere	kliniek									
•	Sheep: 2										
	pington Veear	rtsenyklin	iek								
Sheep: 3 Blood gut in weaner lambs and even older											
bioou gut in V	wearier larrius ar	iu even old	ICI								
Tetanus									^		

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average			1.0 (1)	3.0 (1)	1.0 (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)			
Sheep				3.0 (1)	1.0 (2)						
Goat			1.0(1)								
Limpopo Mokopane, Bundu Veterinary Services  Goat: 1 North West Stella, Stella Dierekliniek Sheep: 3 Free State Bloemfontein, University Free State Sheep: 1 Reitz, Riemland Dierehospitaal Sheep: 1 Western Cape Heidelberg (WC), Heidelberg Dierekliniek Beef: 1  Salmonellosis  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape Northern Cape											
Average	1.0 (1)			2.5 (2)		1.5 (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)			3.0 (1)		1.5 (2)					
Sheep				2.0(1)							
<b>Mpumalang</b>	_										

Back in area									
Brucella a	<i>abortus</i> (Bo	vine bru	cellosis)	)					_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (1)	1.0 (1)	2.7 (3)	2.0 (3)	1.0 (1)			2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.5 (2)	1.0 (1)	1.0 (1)	2.5 (2)	2.5 (2)	1.0(1)			2.0 (1)
Dairy				3.0 (1)	1.0 (1)				
Beef: 1 Grootvlei, G Beef: 2 Gauteng Bapsfontein Beef: 1 Limpopo Makhado, B Beef: 1 North West Brits, Brits I Dairy: 3 In one dairy f Stella, Stella Beef: 3	four Diereklin rootvlei Diere , Bapsfontein louberg Diere Dierekliniek farm, nearly 100 a Dierekliniek yburg Prov Ve	kliniek  Dierehos  kliniek  % of heife	rs are serol	ogical po	sitive!!				
Molopo = 0/1 Free State Excelsior, W Beef: 2 Hoopstad, K Beef: 3	herds, 640 anima herds. (Titre: 1 leltevrede Die Cameeldoring	.8-24 = 6 a rekliniek Diereklini	nimals. Titr						rds tested),
Dairy: 1 <b>Kwazulu-N</b> a	ergville Veteri	•							
	Kimberley Die	rekliniek							

Beef: 2

Brucella ovis (Ramsiekte)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep							3.0 (1)		
astern Cap			-						
<b>Steynsburg,</b> Sheep: 3	, Steynsburg D	Dierehospi	itaal						
Positive on se	erology								
Johne`s (	disease								_
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 1	10 cases
Sheep								1.0(1)	
Western Ca	ре								
	(WC), Heidelb	erg Diere	kliniek						
Sheep: 1									
Senticaer	min .								/
Septicaei	IIId								_
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE		Gauteng	Limpopo						
PROVINCE  Average  Level of impo				West	1.0 (1)	Natal	Cape	2.0 (3)	Cape
PROVINCE  Average  Level of imporeported	Mpumalanga			West	1.0 (1)	Natal	Cape	2.0 (3)	Cape
Average	Mpumalanga			West	1.0 (1)	Natal	Cape	2.0 (3)	Cape
PROVINCE  Average  Level of imporeported  Beef  Dairy	Mpumalanga			West	1.0 (1)	Natal	Cape	2.0 (3) more than 2.0 (1)	Cape
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Free State Bloemfonte Sheep: 1	Mpumalanga  ortance scale: 1  in, University	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	2.0 (3) more than 2.0 (1) 2.0 (1)	Cape
PROVINCE  Average  Level of impore reported  Beef  Dairy  Sheep  Free State Bloemfonte Sheep: 1  Western Capaarl, Paarl	Mpumalanga  ortance scale: 1  in, University  pe  Dierehospitaa	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	2.0 (3) more than 2.0 (1) 2.0 (1)	Cape
PROVINCE  Average  Level of impore ported  Beef Dairy  Sheep  Free State Bloemfonte Sheep: 1  Western Capaarl, Paarl	Mpumalanga  ortance scale: 1  in, University pe	= one case	e, 2 = more	West	1.0 (1) e case b	Natal	Cape	2.0 (3) more than 2.0 (1) 2.0 (1)	Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	3.0 (2)	2.0 (2)	3.0 (2)	2.3 (16)	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	2.5 (2)	3.0 (1)	2.0 (1)	3.0 (1)	2.4 (7)	2.0 (2)			
Dairy					1.0 (1)			2.0 (1)	
Sheep	2.0 (1)	3.0 (1)	2.0 (1)	3.0 (1)	2.4 (8)				
Beef: 3 Gauteng Pretoria, An Beef: 3, Shee Limpopo Makhado, B Beef: 2 Calves Sheep: 2 Lambs North West Stella, Stella Beef: 3, Shee Free State Bethlehem, Beef: 3, Shee Bloemfonte Sheep: 2 Bloemfonte Sheep: 3 Clocolan, Cl Beef: 1, Dairy Hoopstad, F Beef: 3, Shee Kroonstad, Beef: 2, Shee Senekal, Se Beef: 2, Shee	Longtom Dierekliniek  a Dierekliniek  bp: 3  Bethlehem An  bp: 3  in, Dr Stephan  in, University  ocolan Dierekl  1: 1, Sheep: 1  Hoopstad Dierekl  2: 2  nekal Dierekliniek	y Consult kliniek  nimal Hos Nessels Free State liniek ekliniek rehospita niek	pital						
Beef: 3, Shee									
Kwazulu-Na	ital Underberg Ve								

Underberg, Underberg Veterinary Surgery

Beef: 2									
	yheid Privaat \	/eeartse							
Beef: 2	y								
Western Ca	ne								
	orge Herd Hea	th Consul	+						
Dairy: 2	ge								
Dermato	philosis (Lu	mpy Wo	ol)						_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (2)		2.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep					2.0 (2)		2.0 (1)		
Free State									
Reitz, Riem	land Dierehos	pitaal							
Sheep: 2									
Warden, Wa	arden Dierekli	niek							
Sheep: 2									
Eastern Cap	oe e								
	n, Stutterheim	Veterina	y Clinic						
Sheep: 2									
Lambs									
<b>Bovine D</b>	ermatophilo	osis (Sei	nkobo di	sease)					^
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)		3.0 (1)	1.0 (1)		1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.0(1)	1.0 (1)	2.0 (1)		3.0 (1)	1.0 (1)		1.0(1)	
Mpumalang									
	irootvlei Diere	kliniek							
Beef: 1									
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	níc						
Beef: 1									
Limpopo	Janks D'	L-12 1 - 1							
Makhado, B	louberg Diere	kliniek							
<b>Makhado, B</b> Beef: 2									
<b>Makhado, B</b> Beef: 2	llouberg Diere								

•	land Dierehos	pitaal							
Beef: 3									
Kwazulu-Na Mtubatuba	atal Mtubatuba Aı	aimal Cli-	io						
Beef: 1	MLUDALUDA AI	ılınaı Ciin	iC						
Western Ca	ne								
	iledon Dierekli	iniek							
Beef: 1									
Fusibacte	erium necro	phorum							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)				1.7 (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					2.0 (1)				
Sheep	3.0 (1)				1.5 (2)				
Sheep: 2	ocolan Dierek arden Dierekli								
Beef: 2, Shee									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									
Average			1.0 (1)					1.0(1)	
	ortance scale: 1	= one case	` ′	than on	e case b	ut less than t	en and 3 =	` ′	10 cases
Level of impo	ortance scale: 1	= one case	` ′	than on	e case b	ut less than t	en and 3 =	` ′	10 cases
Level of imported  Beef	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	` ′	10 cases
Level of imporeported  Beef  Dairy  Limpopo  Mokopane,	ortance scale: 1  Bundu Veterir		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported  Beef  Dairy  Limpopo	Bundu Veterir		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported  Beef  Dairy  Limpopo  Mokopane,  Beef: 1  Western Ca	Bundu Veterir	nary Servi	2 = more 1.0 (1) ces	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported  Beef  Dairy  Limpopo  Mokopane,  Beef: 1  Western Ca	Bundu Veterir pe 1, Swellendam	nary Servi	2 = more 1.0 (1) ces	than on	e case b	ut less than t	en and 3 =	more than	10 cases

Pasteure	llosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.5 (2)	2.0 (1)		1.7 (3)	1.0 (1)	1.0 (1)	1.3 (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)		1.0 (1)	1.0 (1)			
Dairy		2.0 (1)						1.0(1)	
Sheep		1.0 (1)			2.0 (1)			1.5 (2)	
Goat					2.0 (1)		1.0 (1)		
Sheep: 1 Limpopo Makhado, B Beef: 2 Two cases Free State Excelsior, W Goat: 2 Ficksburg, C Beef: 1 Wesselsbro Sheep: 2 Kwazulu-Na Bergville, B Beef: 1 Eastern Cap Graaff-Rein Goat: 1 Western Ca	ergville Veteri De et, Camdeboo	kliniek rekliniek iere Produ n Dierekli nary Clini Veterina	ikte niek c	nd Prod	uction A	Animal Clinic			
Sheep: 2 <b>Heidelberg</b>	(WC), Heidelb								
Sheep: 1 Worcester, Dairy: 1	Durban Straat	: Diereklin	iek Worce	ster					
	al diseases	(other)							

**Besnoitiosis** 

Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef										
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Seef	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Received	Average				1.0 (1)					
North West Exerust, Avontuur veterinary Practice Beefs 1  Coccidiosis	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
North West Exerust, Avontuur veterinary Practice Beefs 1  Coccidiosis	Beef				10(1)					
Coccidiosis					1.0 (1)					
Coccidiosis			ary Pract	ice						
PROVINCE Mpumalanga Gauten Limpopo West State Kwazulu- Rape Cape Cape Cape  Average 2.0 (2) 1.2 (5) 2.5 (2) 3.0 (1) 2.0 (2) 2.2 (5) 2.0 (3) 2.5 (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 Table 1.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 2.0 (2) 3.0 (1) 2.0 (1) 3.0 (	Beef: 1	ontaan veterm	ary rrace							
Average 2.0 (2) 1.2 (5) 2.5 (2) 3.0 (1) 2.0 (2) 2.2 (5) 2.0 (3) 2.5 (2) 2.5 (2) 2.5 (2) 2.6 (2) 2.5 (2		is								^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported	PROVINCE	Mpumalanga	Gauteng	Limpopo						
Reef 2.0 (1) 1.0 (2) 2.0 (1) 2.0 (1) 2.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 2.0 (2) 3.0 (1) 2.5 (2) 3.0 (1) 2.5 (2) 3.0 (1) 3	Average	2.0 (2)	1.2 (5)	2.5 (2)	3.0 (1)		2.2 (5)	2.0 (3)	2.5 (2)	2.5 (2)
Dairy 1.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 2.0 (2) 3.0 (1) 2.5 (2)  Mpumalanga Lydenburg, Lydenburg Dierespreekkamer  Beef: 2, Sheep: 2  Gauteng Hammanskraal, Themba Animal Clinic  Goat: 1  Nigel, Nigel Diere Spreekkamer  Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms  Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1  Limpopo Makhado, Blouberg Dierekliniek  Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer  Beef: 2  Calves  North West  Potchefstroom, Bult Dierekliniek  Sheep: 3  Free State	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) 2.0 (1) 3.0 (1) 3.0 (1) 2.0 (2) 3.0 (1) 2.5 (2)  Mpumalanga Lydenburg, Lydenburg Dierespreekkamer  Beef: 2, Sheep: 2  Gauteng Hammanskraal, Themba Animal Clinic  Goat: 1  Nigel, Nigel Diere Spreekkamer  Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms  Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1  Limpopo Makhado, Blouberg Dierekliniek  Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer  Beef: 2  Calves  North West  Potchefstroom, Bult Dierekliniek  Sheep: 3  Free State	Beef	2.0(1)	1.0(2)	2.0(1)			2.0(2)			
Sheep 2.0 (1) 2.0 (1) 3.0 (1) 3.0 (1) 2.0 (2) 3.0 (1) 2.5 (2)  Mpumalanga Lydenburg, Lydenburg Dierespreekkamer  Beef: 2, Sheep: 2  Gauteng Hammanskraal, Themba Animal Clinic  Goat: 1  Nigel, Nigel Diere Spreekkamer  Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms  Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1  Limpopo Makhado, Blouberg Dierekliniek  Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer  Beef: 2  Calves  North West  Potchefstroom, Bult Dierekliniek  Sheep: 3  Free State	Dairv		1.0 (1)				, ,		2.0(1)	
Appending Spreek Romer Spreek Romer Spreek Romer Spreek Romer Spreek Romer Romer Spreek Romer Ro	- ···· ,		1.0 (1)			2.0			2.0 (1)	
Mpumalanga Lydenburg, Lydenburg Dierespreekkamer  Beef: 2, Sheep: 2  Gauteng Hammanskraal, Themba Animal Clinic  Boat: 1  Nigel, Nigel Diere Spreekkamer  Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms  Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1  Limpopo  Makhado, Blouberg Dierekliniek  Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer  Beef: 2  Calves  North West  Potchefstroom, Bult Dierekliniek  Sheep: 3  Free State	Sheep	2.0 (1)	2.0 (1)	3.0 (1)	3.0 (1)		2.0 (2)	3.0 (1)		2.5 (2)
Lydenburg, Lydenburg Dierespreekkamer  Beef: 2, Sheep: 2  Gauteng Hammanskraal, Themba Animal Clinic Goat: 1  Nigel, Nigel Diere Spreekkamer Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1  Limpopo Makhado, Blouberg Dierekliniek Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer Beef: 2  Calives North West Potchefstroom, Bult Dierekliniek Sheep: 3  Free State	Goat		1.0 (1)				3.0 (1)	1.5 (2)	3.0 (1)	
Seef: 2, Sheep: 2 Gauteng Hammanskraal, Themba Animal Clinic Goat: 1 Nigel, Nigel Diere Spreekkamer Seef: 1, Dairy: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Seef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Seef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State	Mpumalang	а								
Gauteng Hammanskraal, Themba Animal Clinic Goat: 1 Nigel, Nigel Diere Spreekkamer Beef: 1, Dairy: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State			erespreek	kamer						
Hammanskraal, Themba Animal Clinic Goat: 1 Nigel, Nigel Diere Spreekkamer Beef: 1, Dairy: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		ep: 2								
Goat: 1 Nigel, Nigel Diere Spreekkamer Beef: 1, Dairy: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State				•						
Nigel, Nigel Diere Spreekkamer  Beef: 1, Dairy: 1  Pretoria, Anima Veterinary Consulting Rooms  Sheep: 2  Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1  Limpopo  Makhado, Blouberg Dierekliniek  Sheep: 3  Vaalwater, Vaalwater Dierespreekkamer  Beef: 2  Calves  North West  Potchefstroom, Bult Dierekliniek  Sheep: 3  Free State		raal, Themba <i>F</i>	Animai Cii	nic						
Reef: 1, Dairy: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Reef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Reef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		Dioro Sprookl	/amor							
Pretoria, Anima Veterinary Consulting Rooms Sheep: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Seef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Seef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		-	Mairiei							
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State			v Consult	ina Rooms	•					
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State			,	9						
Limpopo Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Seef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С		
Makhado, Blouberg Dierekliniek Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State	Beef: 1									
Sheep: 3 Vaalwater, Vaalwater Dierespreekkamer Seef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State	Limpopo									
Vaalwater, Vaalwater Dierespreekkamer Beef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		louberg Diere	kliniek							
Geef: 2 Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		Manharta Di								
Calves North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State		vaaiwater Die	respreekk	amer						
North West Potchefstroom, Bult Dierekliniek Sheep: 3 Free State										
Potchefstroom, Bult Dierekliniek Sheep: 3 Free State										
Sheep: 3 Free State			kliniek							
Free State	Sheep: 3	,								
Bloemfontein, Dr Stephan Wessels	Free State									
	Bloemfonte	in, Dr Stephan	Wessels							

Sheep: 2 Warden, Warden Dierekliniek Goat: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 1 **Dundee, Endumeni Herd health** Beef: 3, Sheep: 3, Goat: 3 **Eshowe, Eshowe Veterinary Hospital** Sheep: 1 **Eastern Cape Bathurst, Dr Jane Pistorius** Goat: 2 Seven cases **Graaff-Reinet, Camdeboo Veterinary Clinic** Goat: 1 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 3 **Western Cape George, George Animal Hospital** Goat: 3 **George, George Herd Heath Consult** Dairy: 2 **Northern Cape** Colesberg, Karoo Veterinary Hospital Kuruman, Kuruman Dierekliniek Sheep: 2 **Cryptosporidiosis** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.3 3.0(2) 2.0(4)2.8 (9) 1.7 (3) 2.0 (10) 1.0(1)**Average** (10)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.4 3.0 (2) Beef 1.7 (3) 2.0(1)2.6 (5) 1.0(1)(5) 3.0 (2) Dairy 2.0(8)2.2 Sheep 3.0(1)3.0(1)2.0(2)(5) Goat 1.5 (2) 3.0(1) **Mpumalanga** Lydenburg, Longtom Dierekliniek

Lydenburg, Lydenburg Dierespreekkamer

**Bapsfontein, Bapsfontein Dierehospitaal** 

Beef: 3

Gauteng

Beef: 2

Nigel, Nigel Diere Spreekkamer

Beef: 1

**Pretoria, Anima Veterinary Consulting Rooms** 

Beef: 2 North West

**Brits, Brits Dierekliniek** 

Sheep: 3

Rustenburg, Bergbos Dierekliniek

Goat: 1

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2 New farm

**Zeerust, Avontuur veterinary Practice** 

Goat: 2
Free State

**Bultfontein, Greylingsrust Dierespreekkamer** 

Beef: 3, Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Senekal, Senekal Dierekliniek

Sheep: 1

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 1

**Dundee, Endumeni Herd health** 

Beef: 3, Dairy: 3, Sheep: 3, Goat: 3 **Kokstad, E.G. Veterinary Services** 

Beef: 3, Dairy: 3

The crypto doesn't seem to have reached the same devastating disease as we were seeing in the past two years. I postulate that possibly has to do with cow exposure and antibody production in colostrum.

**Newcastle, Ncanduvet Newcastle** 

Beef: 3

**Underberg, Underberg Veterinary Surgery** 

Beef: 3

**Western Cape** 

Caledon, Caledon Dierekliniek

Dairy: 2

**Darling, Tygerberg Dierehospitaal Darling** 

Dairy: 2

George, George Herd Heath Consult

Dairy: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Bergzight Dierehospitaal

Dairy: 2, Sheep: 2

Malmesbury, Dr Otto Kriek

iry:	

Water quality, hygiene, a set routine and colostrum management invariably get one out of a bad situation when confronted by this recurring problem. Unfortunately, antibiotics are used by some for the treatment of Cryptosporidium to no avail.

## Riversdale, Riversdal Dierekliniek

Dairy: 2, Sheep: 2

## Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

## **Northern Cape**

## **Kimberley, Kimberley Dierekliniek**

Beef: 1										
Fungal diseases										
Ringworm										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.8 (4)			3.0 (2)	2.0 (1)	1.8 (4)	1.0 (1)	1.3 (3)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than I	LO cases	
Beef	1.7 (3)			3.0 (1)	2.0 (1)	1.5 (2)	1.0 (1)	1.0 (1)		
Dairy								1.0(1)		
Sheep	2.0(1)			3.0 (1)		2.0 (1)		2.0 (1)	2.0(1)	
Goat					_	2.0 (1)				
Mpumalang	а						_			
Balfour Bal	four Diereklin	iek								

# Balfour, Balfour Dierekliniek

Beef: 2

#### **Grootvlei, Grootvlei Dierekliniek**

## Lydenburg, Longtom Dierekliniek

## **Nelspruit, Nelspruit Animal Hospital**

Sheep: 2

#### **North West**

# Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

**Free State** 

#### **Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

#### Kwazulu-Natal

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

Beef: 2

# Mtubatuba, Mtubatuba Animal Clinic

#### **Pietermaritzburg, Veterinary House Hospital**

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

#### **Uitenhage, Uitenhage Dierehospitaal**

Beef: 1									
Western Ca									
	erberg Diereh	ospitaal I	Darling						
Dairy: 1									
	rg, Korhaanru	g Dierege	sondheid						
Sheep: 2									
	h, Stellenbosc	h Anımal	Hospital						
Beef: 1									
Northern Ca	uruman Diere	kliniak							
Sheep: 2	uruman biere	KIIIICK							
	eases (oth	er)							
BMC (sno	tsiekte)								^
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 imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)			2.0 (1)				
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Free State Bethlehem,	Bethlehem Ar	imal Hos	pital						
Beef: 2									
BVD (Bov	ine viral dia	arrhoea	)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)			2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (2)			2.0 (1)				
Gauteng									
	aal, Themba A	Animal Cli	nic						
Beef: 1	Diama Co								
	Diere Spreekl	kamer							
Beef: 1 Free State									
	inburg Dierek	liniek							
u.g, 11	y Dielek								

Beef: 2									
IBR (Infe	ectious bovi	ne rhind	tracheit	is)					^
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
Beef		3.0 (1)							
Beef: 3	Diere Spreekl		BL)						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	2.0 (1)		1.6 (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						2.0(1)		1.8 (4)	
Free State Winburg, W Beef: 2	inburg Dierek	liniek							
Kwazulu-Na Underberg, Dairy: 2	atal Underberg Ve	terinary S	Surgery						
Western Ca	ре								
	gerberg Diereh	nospitaal I	Darling						
Dairy: 2 <b>George, Geo</b> Dairy: 1	orge Herd Hea	th Consul	t						
	y, Dr Otto Krie	k							
Dairy: 2									
	Dierehospitaa	al;							
Beef: 1, Dairy Orf	y: Z								^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		2.0 (6)	2.4 (5)	2.5 (6)	2.0 (4)		3.0 (1)	2.0 (2)
Level of impreported	oortance scale: 1	= one case, 2	2 = more than one	e case bu	t less than to	en and 3 = m	nore than 1	0 cases
Sheep		2.0 (3)	2.3 (3)	2.4 (5)	2.0 (1)		3.0 (1)	2.0 (1)
Goat		2.0 (3)	2.5 (2)	3.0 (1)	2.0 (3)			2.0 (1)
Gauteng Bansfontei	n, Bapsfontein	Dierehosnit	aal					
Sheep: 2, Go		Dicienospie	uai					
	craal, Themba <i>l</i>	Animal Clinia	•					
Sheep: 2, Go		Aillinai Cillin	•					
	nima Veterinar	v Consulting	Pooms					
Sheep: 2, Go		y Consuming	, KOOIII3					
North Wes								
	ac Dierekliniek							
Sheep: 2, Go								
	Christiana Die	rehosnitaal						
Sheep: 3, Go		Cilospicaai						
	oom, Bult Diere	kliniek						
Sheep: 2	,							
Free State								
	, Bethlehem Ar	imal Hospit	al					
Sheep: 3	,							
	Weltevrede Die	rekliniek						
Sheep: 3, Go								
	Hoopstad Diere	ekliniek						
Sheep: 3	<u>-</u>							
	Kroonstad Die	rehospitaal						
Sheep: 2		-						
Viljoenskro	on, Viljoenskro	on Dierekli	niek					
Sheep: 1								
Kwazulu-N	atal							
Estcourt, E	stcourt Vet Clir	nic						
Goat: 2								
	, Mtubatuba Ar	nimal Clinic						
Goat: 1								
	tzburg, Veterin	ary House H	ospital					
Goat: 3								
	, Underberg Ve	terinary Sur	gery					
Sheep: 2								
Western Ca		i - i						
	eorge Animal H	ospitai						
Sheep: 3	'ano							
Northern C	-	kliniok						
Sheep: 2, Go	Kuruman Diere	KIIIIEK						
Sheep: 2, G	Jal. Z							
Warts								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)			2.5 (2)	2.3 (4)	1.3 (3)	1.0 (1)	2.0 (4)	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	1.7 (3)			2.5 (2)	2.0 (3)	1.3 (3)	1.0 (1)	1.5 (2)	1.0 (1)
Dairy								2.5 (2)	
Goat					3.0 (1)				
Mpumalang									
	Longtom Dier	ekliniek							
Beef: 2	Ludombuum Die		l.a						
Beef: 2	Lydenburg Die	erespreek	kamer						
	lelspruit Anima	al Hospita	1						
Beef: 1	icispi die Ailiii	и поэрта	.•						
<b>North West</b>									
Brits, Brits I	Dierekliniek								
Beef: 3									
	om, Bult Diere	kliniek							
Beef: 2									
Free State	/albarmada Dia								
Goat: 3	leltevrede Die	rekiiniek							
	loopstad Diere	kliniek							
Beef: 3	loopotaa Diere								
	nekal Dierekli	niek							
Beef: 1									
	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na		m. Use "	_1						
Beef: 1	howe Veterina	ry mospita	aı						
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2		ar Cilli							
	ngola Animal	Clinic							
Beef: 1									
Eastern Cap									
	p, Humansdor	p Veterina	ary Clinic						
Beef: 1									
Western Ca		ocnital							
Beef: 2	orge Animal Ho	ospitai							
	orge Herd Hea	th Consul	t						
Dairy: 2			-						
	y, Bergzight Di	ierehospit	aal						
Dairy: 3									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						

Beef: 1									
Northern Ca	ape								
	Kimberley Die	rekliniek							
Beef: 1	idiniberity bic	CKIIIICK							
DCCI. I									
Rota viru	S								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.0 (1)		1.0 (1)	2.5 (2)	2.0 (2)		1.5 (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 :	10 cases
Beef	3.0 (1)	1.0(1)		1.0 (1)	2.0 (1)	2.0 (2)			
Dairy								1.5 (2)	
Sheep					3.0 (1)				
Mpumalang	а								
Lydenburg,	Lydenburg Die	erespreek	kamer						
Beef: 3									
Gauteng									
Bapsfontein	, Bapsfontein	Dierehos	pitaal						
Beef: 1	·								
<b>North West</b>									
Christiana,	Christiana Die	rehospita	al						
Beef: 1									
Free State									
	in, University	Free State	2						
Sheep: 3	,								
	Kroonstad Die	rehospita	al						
Beef: 2									
Kwazulu-Na	ital								
Dundee, En	dumeni Herd h	nealth							
Beef: 2									
	tcourt Vet Clir	nic							
Beef: 2									
Western Ca	pe								
	orge Herd Hea	th Consul	t						
Dairy: 2									
•	, Dr Otto Krie	k							
Corona V	irus								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						3.0 (1)			

Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						3.0 (1)			
Kwazulu-Na Vryheid, Vry Beef: 3	atal yheid Privaat \	/eeartse							
Other vir	al disease n	ot listed	l						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		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
Beef				3.0 (1)					
Dairy		2.0(1)							
North West		deliminate							
Poisonin  Cardiac g	ngs (Plant)  lycoside po  Mpumalanga	and Fu		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape  3.0 (1)
Poisonin  Cardiac g  PROVINCE  Average	igs (Plant) Ilycoside po	and Fullisoning Gauteng  1.0 (1)	Limpopo	West	State	Natal	Cape	Cape	3.0 (1)
Poisonin  Cardiac g  PROVINCE  Average  Level of impositions in the second control of th	lycoside po Mpumalanga	and Fullisoning  Gauteng  1.0 (1)	Limpopo	West	State	Natal	Cape	Cape	3.0 (1)
Province  Average  Level of imporeported	lycoside po Mpumalanga	isoning Gauteng 1.0 (1) = one case	Limpopo	West	State	Natal	Cape	Cape	3.0 (1)
Poisonin  Cardiac g  PROVINCE  Average  Level of imporeported  Beef  Sheep  Gauteng  Bronkhorsts Beef: 1  Northern Ca  Upington, U Sheep: 3	Mpumalanga ortance scale: 1 spruit, Kerkstr	and Fullisoning  Gauteng  1.0 (1)  = one case  1.0 (1)  aat Dierel	Limpopo e, 2 = more kliniek	West	State	Natal	Cape	Cape	3.0 (1) 10 cases
Poisonin  Cardiac g  PROVINCE  Average  Level of imporeported  Beef  Sheep  Gauteng  Bronkhorsts Beef: 1  Northern Ca  Upington, U Sheep: 3	Mpumalanga  ortance scale: 1  spruit, Kerkstr	and Fullisoning  Gauteng  1.0 (1)  = one case  1.0 (1)  aat Dierel	Limpopo e, 2 = more kliniek	West	State	Natal	Cape	Cape	3.0 (1) 10 cases

North Free

West State Natal

PROVINCE Mpumalanga Gauteng Limpopo

Kwazulu- Eastern Western Northern

Cape

Cape

Cape

Average					1.0 (2)		1.0 (2)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	<u> </u>	ut less than t	en and 3 =	more than	10 cases
Beef					1.0		1.0 (2)		
Sheep					(1)				
Free State					(1)				
Hoopstad, R Beef: 1	Kameeldoring I	Diereklini	ek						
	land Dierehos <sub>l</sub>	oitaal							
Sheep: 1									
Eastern Cap			OI: .:						
Humansdor Beef: 1	p, Humansdor	p veterina	ary Clinic						
	Uitenhage Die	rohosnita	 al						
Beef: 1	Oiteillage Die	ienospita	aı						
Facial ec	zema								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)	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
Dairy								2.0 (1)	
Sheep					1.0 (1)	1.0 (1)		1.7 (3)	
Free State									
	locolan Dierekl	iniek							
Sheep: 1									
Kwazulu-Na			•						
	n, Camperdov	n vet Ciii	nic						
Sheep: 1 <b>Western Ca</b>	no								
	orge Herd Hea	th Consul	<u> </u>						
Dairy: 2	orge riera riea	ui Consui	•						
	(WC), Heidelb	erg Dierel	kliniek						
Sheep: 2									
	<b>Riversdal Dier</b>	ekliniek							
Sheep: 2									
	h, Stellenbosc	h Animal	Hospital						
Sheep: 1									
Geeldikk	op/Dikoor								<u>^</u>

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 t	en and 3 =	more than :	10 cases
Sheep								2.0 (2)	
Western Ca	pe								
	est, Beaufort \	Nest State	e Vet						
Sheep: 2	(146) II I I II								
<b>Heidelberg</b> ( Sheep: 2	(WC), Heidelb	erg Dierei	Kliniek						
Lantana									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	1.0(1)			1.0(2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		1.0(1)	1.0(1)			1.0(2)			
Gauteng									
Hammanskı Beef: 1	raal, Themba A	Animal Cli	nic						
Limpopo									
Tzaneen, ZZ	22 Farm Practi	ce							
Beef: 1									
Kwazulu-Na Mtubatuba	ital Mtubatuba Ar	simal Clin	ic						
	Millialuba Ai								
Beef: 1		iiiiai Ciiii							
	Ncanduvet Ne								
Newcastle,									
Beef: 1		wcastle							_
Newcastle, Beef: 1 Prussic a	Ncanduvet Ne	wcastle		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Newcastle, Beef: 1 Prussic a	Ncanduvet Ne	wcastle							
Newcastle, Beef: 1  Prussic ac  PROVINCE  Average	Ncanduvet Ne	ewcastle	Limpopo	West	1.0 (1)	Natal	Cape	1.0 (1)	3.0 (1)
Newcastle, Beef: 1 Prussic ac PROVINCE Average Level of impo	Ncanduvet Necid poisoning Mpumalanga	ewcastle	Limpopo	West	1.0 (1) e case b	Natal	Cape	1.0 (1)	3.0 (1)
Newcastle, Beef: 1 Prussic ac PROVINCE Average Level of imporreported	Ncanduvet Necid poisoning Mpumalanga	ewcastle	Limpopo	West	1.0 (1)	Natal	Cape	1.0 (1)	3.0 (1)

- 14	a								
Balfour, Bal	four Diereklin	iek							
Sheep: 1									
ree State									
Bultfontein,	Greylingsrust	: Dierespr	eekkamer						
Beef: 1									
<b>Nestern Ca</b>	pe								
Heidelberg (	(WC), Heidelb	erg Diere	kliniek						
Dairy: 1									
Northern Ca	ре								
Jpington, U	pington Veea	rtsenyklin	iek						
Sheep: 3									
Wilted, sprout	ting grass								
Tulip Pois	soning								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)				2.0 (1)				2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (2)				2.0 (1)				2.0 (1)
Mpumalang	а								
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
/olksrust, G	irasslands vet	clinic							
) C - 1									
seet: 1									
Free State	inburg Dierek	liniek							
Free State Winburg, W	inburg Dierek	liniek							
Free State Winburg, W Beef: 2		liniek							
Free State Winburg, W Beef: 2 Northern Ca									
Free State Winburg, W Beef: 2 Northern Ca Kuruman, K	ре								
Free State Winburg, W Beef: 2 Northern Ca Kuruman, K Beef: 2	ре	kliniek	).)						
Free State Winburg, W Beef: 2 Northern Ca Kuruman, K Beef: 2 Vermeers	npe uruman Diere	kliniek <i>Ieria</i> spp		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Free State Winburg, W Beef: 2 Northern Ca Kuruman, K Beef: 2 Vermeers PROVINCE	npe uruman Diere siekte ( <i>Geig</i>	kliniek <i>Ieria</i> spp							
Beef: 2 Northern Ca Kuruman, K Beef: 2 Vermeers PROVINCE Average	npe uruman Diere siekte ( <i>Geig</i>	kliniek <i>Jeria</i> spp Gauteng	Limpopo	West	1.0 (1)	Natal	Cape	Cape	Cape
Free State Winburg, W Beef: 2 Northern Ca Kuruman, K Beef: 2 Vermeers PROVINCE Average	npe duruman Diere siekte ( <i>Geig</i> Mpumalanga	kliniek <i>Jeria</i> spp Gauteng	Limpopo	West	1.0 (1)	Natal	Cape	Cape	Cape

PROVINCE Mpumalanga Gauteng Limpopo West State State Restart Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than cape cape. 2.0 (1)  Conclusion Service Mpumalanga Gauteng Limpopo North West State State Restart Cape Cape Cape  Average 1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than cape cape cape cape cape cape cape cape	Northeri Cape  10 cases  Northeri Cape
evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than eported  2.0 (1)  2.0	Norther
Average  Calcolar, Clare State Clocolar, Clocolar Dierekliniek Clocolar	Norther
Average  Limpopo  North West State  Limpopo  Lim	
Diplodiosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported Sheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North (1)  Free Kwazulu- Cape Cape  1.0 (1)  1.0 (1)  Free Kwazulu- State IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Diplodiosis  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rater Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Sheep 1.0 (1)  Tree State Clocolan, Clocolan Dierekliniek Cheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State State State Clocolan, Clocolan Dierekliniek Cheep: 1  Other  Average 3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than one c	
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  1.0 (1)  Sheep  1.0 (1)  Tree State Clocolan, Clocolan Dierekliniek Cheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  Average  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than one case but les	
Average  Average  Limpopo West State Natal 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 reported  1.0 (1)  Record Sheep  1.0 (1) (1) (1)  Record Sheep  1.0 (1) (1) (1) (1)  Record Sheep  1.0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Sheep  1.0 (1)  Free State Clocolan, Clocolan Dierekliniek Sheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  Average  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	Cape
The properties of the properti	
ree State Clocolan, Clocolan Dierekliniek Cheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rate Cape  Average  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	10 cases
Clocolan, Clocolan Dierekliniek Cheep: 1  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rate Cape  Average  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Western Cape  Average  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	
Average  Limpopo West State Natal Cape Cape  3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than	
Level of importance scale: $1 = \text{one case}$ , $2 = \text{more than one case but less than ten and } 3 = \text{more than}$	Northeri Cape
Sheep 3.0 (1)	10 cases
Castern Cape Steynsburg, Steynsburg Dierehospitaal Scheep: 3 Ganskweek	10 cases
Poisonings	10 cases

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 1	10 cases
Beef					2.0 (1)				
Free State									
	inburg Dierek	liniek							
Beef: 2									
Snake Bit	te								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (1)			1.0 (2)	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)				2.0 (1)			1.0 (1)	1.0 (1)
Dairy								1.0(1)	
Mpumalang	а								
	Longtom Dier	ekliniek							
Beef: 1									
Free State									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Western Ca									
George, Geo	orge Herd Hea	th Consul	t						
Dairy: 1									
Pofadder	l. Ch. II l	l. A							
Beef: 1	h, Stellenbosc	n Animai	Hospitai						
Northern Ca	no								
	uruman Diere	kliniek							
Beef: 1	uruman biere	KIIIICK							
	utritional F	Problem	ıs						
Energy do	eficiency								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		2.0 (2)				2.7 (3)	1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef		2.0(1)				3.0 (1)		1.0(1)	
Dairy						3.0 (1)			
Sheep		2.0(1)				2.0 (1)			
Goat		(-)				_, (-)	1.0(1)		
Gauteng								_	
Pretoria, Or	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini	С		
Beef: 2									
	gy, Malnutrition	(PEM)							
Sheep: 2									
	y, Malnutrition (	PEM)							
Kwazulu-Na			<b>.</b>						
	Underberg Ve	terinary S	urgery						
Beef: 3, Dairy	oor condition. N	Actly fod c	n nacturo s	and lack	of cilago	/ operav defi	rionav		
Sheep: 2	oor condition. I	lostly led t	ni pasture d	iiiu iack i	Ji silaye,	/ energy dent	lericy		
Eastern Cap	ne								
	et, Camdeboo	Veterina	ry Clinic						
Goat: 1	et, camaesoo	Veccima	y Cillino						
Western Ca	pe								
	y, Bergzight Di	ierehospit	aal						
Beef: 1	., 5 5	•							
Protein d	eficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (2)						1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than	10 cases
Beef	2.0(1)	2.0 (1)						1.0(1)	
Sheep		2.0(1)							
Mpumalang	a								
	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
Gauteng									
	nderstepoort A	cademic	Hospital a	nd Prod	uction /	Animal Clini	С		
Beef: 2, Shee									
Western Ca			and .						
	y, Bergzight Di	ierenospit	aaı						
Beef: 1									
Phosphat	te deficienc	У							^

				N 1 -		V	<b>-</b>	M/	N 11
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	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 on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef							1.0 (1)		3.0 (1)
Beef: 1 <b>Northern Ca</b>	p, Humansdor ipe		ary Clinic						
<b>Kuruman, K</b> Beef: 3	uruman Diere	kliniek							
	leficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)						3.0 (1)	1.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)								_
Dairy								1.5 (2)	
Sheep							3.0 (1)		
Mpumalang Balfour, Bal	a four Diereklini	iek							
Beef: 1									
Eastern Cap Stevnsburg	e , Steynsburg D	)ierehosni	itaal						
Sheep: 3	, occyniobai g b	rer enosp	- Cau						
Western Ca	pe Jerberg Diereh	aanitaal I	)						
Darling, 1yg Dairy: 2	jerberg bieren	iospitaai i	Jarling						
Malmesbury	, Dr Otto Krie	k							
Dairy: 1	ıtritional P	roblem	<b>S</b>						
Copper d		robiciii							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)				3.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)				3.0 (1)			
		1.0 (1)				- 5.0 (1)			

Dairy	2.0 (1)								
Sheep	2.0 (1)					3.0 (1)			
Mpumalang						· /			
	Pets Vet Hosp	ital							
Dairy: 2  Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
Kwazulu-Na Underberg	itai Underberg Ve	terinary S	Surgery						
Beef: 3, Shee		termary 5	urgery						
Zinc defic	ciency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)				3.0 (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						3.0 (1)			
Sheep						3.0 (1)			
Goat		2.0(1)							
Goat: 2 Kwazulu-Na Underberg,	Underberg Ve								
Beef: 3, Shee Selenium	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (3)		3.0 (1)	2.0 (2)	3.0 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0 (1)			2.0 (1)	3.0 (1)			
Dairy	2.0(1)						_		
Sheep		2.0 (1)		3.0 (1)	2.0 (1)	3.0 (1)			
Goat		2.0 (1)							
Mpumalang									
Piet Retief, Dairy: 2	Pets Vet Hosp	ital							

Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 2, Go	at: 2								
<b>North West</b>									
Christiana,	Christiana Die	rehospita	al						
Sheep: 3									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2, Shee									
Kwazulu-Na	•								
Underberg,	Underberg Ve	terinary S	Surgery						
Beef: 3, Shee		, .	,						
20011 07 01100	, p. 0								
Magnesiu	ım deficiend	СУ							_
				No at la	Fuer	Kwazulu-	Factous	Machaus	Nauthaus
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	State		Eastern Cape	Western Cape	Northern Cape
					1.0				
Average					(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									
Sheep					1.0		3.0 (1)		
-					(1)		3.0 (1)		
Free State									
	Cameeldoring	Diereklini	ek						
Sheep: 1									
Eastern Cap									
	, Steynsburg D	Dierehospi	itaal						
Sheep: 3									
Vitamin A	A deficiency								<u>^</u>
				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
					2.3				
Average				3.0(1)					
				, ,	(3)				
					a caca h	ut lace than t	= 2 and $3 = 1$	mara than	10 cases
	ortance scale: 1	= one case	e, 2 = more	tnan on	e case b	ut iess triair t	on and o	more triair	10 00303
Level of imported	ortance scale: 1	= one case	e, 2 = more	tnan on	e case b	ut less triair t	on and s	more triair	10 cases
	ortance scale: 1	= one case	e, 2 = more	tnan on		ut less triair t		more triair	To cases
	ortance scale: 1	= one case	e, 2 = more	3.0 (1)	3.0	ut less than t		more than	To cases
reported	ortance scale: 1	= one case	e, 2 = more		3.0	ut less triair t		more than	To cases
reported  Beef	ortance scale: 1	= one case	e, 2 = more		3.0 (1)	ut less triair t		more than	TO Cases
reported	ortance scale: 1	= one case	e, 2 = more		3.0 (1) 2.0	ut less triair t		more than	To cases
reported  Beef  Sheep		= one case	e, 2 = more		3.0 (1)	ut iess triair t	3. G.1. G. S	more trian	TO Cases
reported  Beef  Sheep  North West					3.0 (1) 2.0	ut iess triair t	3. G.1. G. G.	more trian	TO Cases
reported  Beef  Sheep  North West Christiana,					3.0 (1) 2.0	ut less than t	3. G.1.G. 5	more triali	TO Cases
Reef Sheep North West Christiana, Beef: 3					3.0 (1) 2.0	ut less triali t	3. G.1.G.3	more triali	To cases
reported  Beef  Sheep  North West Christiana,					3.0 (1) 2.0	ut less triali t	3. G.1.3 3	more triali	TO Cases

Sheep: 1 Hoopstad, H Beef: 3, Shee	Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3  Multi-factorial Disease Conditions										
Abortions	5								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)	1.3 (3)		2.0 (1)	2.7 (3)	2.7 (3)	2.3 (3)	1.0 (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 1	10 cases		
Beef		1.0(1)		2.0 (1)	2.5 (2)	3.0 (2)	2.0 (2)	1.0 (1)			
Dairy						2.0 (1)		1.0 (4)			
Sheep 1.5 (2) 3.0 (1)  Goat 2.0 (1)											
Goat 2.0 (1)											
Mpumalanga Nelspruit, Nelspruit Animal Hospital Goat: 2 Gauteng Bapsfontein, Bapsfontein Dierehospitaal											
•	Beef: 1, Sheep: 1 Pretoria, Anima Veterinary Consulting Rooms Sheep: 2										
	Christiana Die	rehospita	al								
Beef: 2 Free State											
Beef: 3, Shee	Hoopstad Diere ep: 3 Iinburg Dierek										
Beef: 2											
Dundee, En	Kwazulu-Natal Dundee, Endumeni Herd health										
Dairy: 2 Eshowe, Eshowe Veterinary Hospital											
	Beef: 3 Underberg, Underberg Veterinary Surgery Beef: 3										
Eastern Cap											
Alexandria, Beef: 2	Alexandria Pla	atteland S	preekkam	er							
	, Steynsburg D	Dierehospi	itaal								
Beef: 2, Shee Western Ca	ep: 3	•									
western Ca	pe										

Malmesbury, Bergzight Dierehospitaal  Dairy: 1  Malmesbury, Dr Otto Kriek  Dairy: 1  Riversdale, Riversdal Dierekliniek  Dairy: 1  Stellenbosch, Stellenbosch Animal Hospital  Beef: 1, Dairy: 1  Stillbirths											
Stillbirth	S								<u>^</u>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)				2.7 (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					2.5 (2)						
Sheep	2.0 (1)				3.0 (1)						
Beef: 3, Shee	Hoopstad Diere p: 3 inburg Dierek										
Abscesse	S								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (4)	1.4 (7)		2.5 (4)	2.0 (9)	2.0 (8)	3.0 (2)	1.9 (11)	2.0 (1)		
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)	1.0 (1)		3.0 (1)	2.0 (5)	2.2 (5)		2.0 (2)			
Dairy								2.0 (4)			
Sheep	2.0 (1)	1.3 (3)		2.0 (2)	2.0 (4)	1.5 (2)	3.0 (1)	1.8 (5)	2.0 (1)		
Goat	2.0 (1)	1.7 (3)		3.0 (1)		2.0 (1)	3.0 (1)				
Mpumalang Lydenburg,	a Longtom Dier	ekliniek									

Beef: 2, Sheep: 2 **Nelspruit, Nelspruit Animal Hospital** Beef: 2 Piet Retief, Pets Vet Hospital Goat: 2 Gauteng Hammanskraal, Themba Animal Clinic **Pretoria, Anima Veterinary Consulting Rooms** Sheep: 2, Goat: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1, Sheep: 1, Goat: 1 Rayton, Rayton Dierekliniek Sheep: 1 Corynebacterium **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 **Ventersdorp, Ventersdorp Dierekliniek** Sheep: 1 Corynebacterium **Zeerust, Avontuur veterinary Practice** Goat: 3 **Free State Bethlehem, Bethlehem Animal Hospital Bloemfontein, University Free State** Sheep: 1 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Hoopstad, Kameeldoring Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Winburg, Winburg Dierekliniek Beef: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Sheep: 1 **Eshowe, Eshowe Veterinary Hospital Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 Ticks Goat: 2 Pietermaritzburg, Veterinary House Hospital Pongola, Pongola Animal Clinic

Beef: 1

Beef: 2, Sheep: 2

**Underberg, Underberg Veterinary Surgery** 

Eastern Cap	16										
	et, Graaff Reir	net Veterii	nary Clinic	•							
Sheep: 3, Go		100 7000111	iary Cilino								
Western Ca											
	ledon Dierekli	niek									
Dairy: 2											
	erberg Veteri	narv Hosp	ital								
Beef: 2, Shee											
	orge Herd Hea	th Consult	t								
Dairy: 2											
	, Dr Otto Krie	k									
Dairy: 1	•										
	ırg, Korhaanru	g Dierege	sondheid								
Sheep: 2											
Oudtshoorn	, Ostrimed										
Sheep: 1											
Paarl, Paarl	Dierehospitaa	al;									
	y: 3, Sheep: 1										
Wellington,	<b>Wellington Di</b>	erehospit	aal								
Sheep: 3											
Corynebacter	ium										
Northern Ca	аре										
Kuruman, K	uruman Diere	kliniek									
Sheep: 2											
Bladder s	Bladder stones										
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 (2)	Natal	Cape	Cape	Cape		
Average  Level of impo				West	1.0 (2)	Natal	Cape	Cape	Cape		
Average  Level of imporeported  Sheep				West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State	ortance scale: 1	= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl		= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1	ortance scale: 1	= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1	ortance scale: 1	= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1  Reitz, Riem Sheep: 1	ortance scale: 1  ocolan Dierek land Dierehos	= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1 Reitz, Riem	ortance scale: 1  ocolan Dierek land Dierehos	= one case		West	1.0 (2) e case b	Natal	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1 Reitz, Riem Sheep: 1 Blindness	ortance scale: 1  ocolan Dierek land Dierehos	= one case	e, 2 = more	West	1.0 (2) e case b	Natal  ut less than to	Cape	Cape	Cape		
Average  Level of impore reported  Sheep  Free State Clocolan, Cl Sheep: 1 Reitz, Riem Sheep: 1 Blindness	ortance scale: 1  ocolan Dierek land Dierehos	= one case	e, 2 = more	than one	1.0 (2) e case b 1.0 (2) Free	Natal  ut less than to	Cape  en and 3 =	more than :	Cape  10 cases  A  Northern		

reported

Beef	2.0 (1)				2.5 (4)				
Dairy								1.0(1)	
Sheep	1.0 (1)				2.6 (5)			3.0 (1)	2.0 (1)
Goat									2.0 (1)
Mpumalang	a								
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
Piet Retief,	<b>Pets Vet Hosp</b>	ital							
Sheep: 1									
Free State									
	Bethlehem Ar	nimal Hosp	ital						
Beef: 2, Shee									
	, Greylingsrust	t Dierespre	ekkamer						
Sheep: 3									
	ocolan Dierek	liniek							
Beef: 3, Shee									
	loopstad Diere	ekliniek							
Beef: 3, Shee	•		.1						
	Kroonstad Die	renospita	11						
Sheep: 2	linhura Diarak	liniak							
Beef: 2	inburg Dierek	iiniek							
	no								
Western Ca	pe ırg, Korhaanru	a Diorogo	condhoid						
Sheep: 3	iig, Koillaaliiu	ig Dielege:	sonuneiu						
•	Riversdal Dier	okliniok							
Dairy: 1	Riversual Diel	CKIIIICK							
Northern Ca	ane								
	uruman Diere	kliniek							
Sheep: 2, Go									
Bloat									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				1.8 (5)	1.4 (5)		1.5 (2)	2.0 (2)
Level of impore	ortance scale: 1	= one case	, 2 = more	than on		ut less than t	en and 3 =	more than 1	10 cases
Beef	2.0 (1)				1.7 (3)	1.0 (2)		1.0 (1)	
Dairy						2.0 (1)			
Sheep					2.0 (2)			2.0 (1)	2.0 (1)
Goat						1.5 (2)			2.0 (1)
Mpumalang	a								
pamaiang	-								

Lydenburg, Longtom Dierekliniek Beef: 2 Free State Clocolan, Clocolan Dierekliniek Beef: 2 Excelsior, Weltevrede Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dain: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo  North West State  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Blue udder	Beef: 2 Free State Clocolan, Clocola	colan Dierek eltevrede Die Kroonstad Die rden Dierekli p: 2 tal n, Camperdo lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	kliniek ierekliniek ierehospitaal liniek own Vet Clinic health linic inary House Hospita	d								
Free State Clocolan, Clocolan Dierekliniek Sheep: 2 Excelsior, Weltevrede Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Western Cape Morreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo  Average  Limpopo  Limpop	Free State Clocolan, Cloc Sheep: 2 Excelsior, We Beef: 1 Kroonstad, Kr Beef: 2 Warden, Ward Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kui Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape Mostern Cape Kuruman, Kui Sheep: 2, Goat: Cape Cape Cape Cape Cape Cape Cape Cape	eltevrede Die  Kroonstad Die  rden Dierekli p: 2 tal n, Camperdon  lumeni Herd  tcourt Vet Cli  burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	ierekliniek ierehospitaal liniek own Vet Clinic health linic nary House Hospita	d								
Clocolan, Clocolan Dierekliniek Sheep: 2 Excelsior, Weltevrede Dierekliniek Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Warden, Warden Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2  Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1, Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  3.0 (1) Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Clocolan, Clocol	eltevrede Die  Kroonstad Die  rden Dierekli  p: 2 tal  n, Camperdon  lumeni Herd  tcourt Vet Cli  burg, Veterin  1 pe rg, Korhaanru  n, Stellenboso	ierekliniek ierehospitaal liniek own Vet Clinic health linic nary House Hospita	d								
Sheep: 2 Excelsior, Weltevrede Dierekliniek Beef: 1 Nroonstad, Kroonstad Dierehospitaal Beef: 2 Warden, Warden Dierekliniek Beef: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Morreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo  North West State Natal  Eastern Cape  Cape  Cape  Cape  Cape  Cape  Norther Cape  Cape  Cape  On Orther Cape  Ca	Sheep: 2 Excelsior, We Beef: 1 Kroonstad, Kr Beef: 2 Warden, Ward Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape Western Cape Morreesburg Sheep: 2, Goat: Red gut (to	eltevrede Die  Kroonstad Die  rden Dierekli  p: 2 tal  n, Camperdon  lumeni Herd  tcourt Vet Cli  burg, Veterin  1 pe rg, Korhaanru  n, Stellenboso	ierekliniek ierehospitaal liniek own Vet Clinic health linic nary House Hospita	d								
Excelsior, Weltevrede Dierekliniek Beef: 1  Kroonstad, Kroonstad Dierehospitaal Beef: 2  Warden, Warden Dierekliniek Beef: 2, Sheep: 2  Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2  Dundee, Endumeni Herd health Dairy: 2  Estcourt, Estcourt Vet Clinic Beef: 1, Goat: 1  Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape  Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North Free 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 cases reported  Dairy  Goat  Quality: 3  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Excelsior, We Beef: 1 Kroonstad, Kr Beef: 2 Warden, Ward Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kui Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape Moorreesburg Sheep: 2, Goat: Red gut (to Red gut	Kroonstad Die rden Dierekli p: 2 tal n, Camperdon lumeni Herd tcourt Vet Cli tburg, Veterin 1 pe rg, Korhaanru n, Stellenboso	ierehospitaal liniek  own Vet Clinic health linic mary House Hospita rug Dieregesondhei	d								
Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Warden, Warden Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dain: 2 Estcourt, Estcourt Vet Clinic Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat  3.0 (1) Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Beef: 1 Kroonstad, Kr Beef: 2 Warden, Ward Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kui Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	Kroonstad Die rden Dierekli p: 2 tal n, Camperdon lumeni Herd tcourt Vet Cli tburg, Veterin 1 pe rg, Korhaanru n, Stellenboso	ierehospitaal liniek  own Vet Clinic health linic mary House Hospita rug Dieregesondhei	d								
Recei: 2 Warden, Warden Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Kroonstad, Kr Beef: 2 Warden, Ward Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kui Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	rden Dierekli p: 2 tal n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	liniek  own Vet Clinic  health  linic  nary House Hospita  rug Dieregesondhei	d								
Beef: 2 Warden, Warden Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Northern Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat  Dairy Goat  Western Cape Beaufort West, Beaufort West State Vet Gooat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Beef: 2 Warden, Warden, Warden, Warden, Warden, Warden, Warden, Ender Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Esta Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, K	rden Dierekli p: 2 tal n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	liniek  own Vet Clinic  health  linic  nary House Hospita  rug Dieregesondhei	d								
Warden, Warden Dierekliniek Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North Free 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 cases reported  Dairy Goat  J. 0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Warden, Warden, Warden, Warden, Warden, Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estcourt, Estcourt, Estcourt, Estcourt, Estcourt, Estcourt, Estcourt, Estcourt, Goat: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cape Kuruman, Kuruman	tal n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	own Vet Clinic health linic nary House Hospita rug Dieregesondhei	d								
Beef: 2, Sheep: 2 Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2  Dundee, Endumeni Herd health Dairy: 2  Estcourt, Estcourt Vet Clinic Beef: 1, Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1  Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North Free 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 cases reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Beef: 2, Sheep: Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 2 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	tal n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	own Vet Clinic health linic nary House Hospita rug Dieregesondhei	d								
Kwazulu-Natal Camperdown, Camperdown Vet Clinic Goat: 2  Dundee, Endumeni Herd health Dainy: 2  Estcourt, Estcourt Vet Clinic Beef: 1  Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1  Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  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 cases reported  Dairy 3.0 (1)  Goat 2.0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Kwazulu-Nata Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 3 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	tal n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	health linic nary House Hospita rug Dieregesondhei sch Animal Hospital	d								
Camperdown, Camperdown Vet Clinic Goat: 2 Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North Free West 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 cases reported  Dairy Goat  Western Cape Beaufort West, Beaufort West State Vet Gooat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Camperdown, Goat: 2 Dundee, Endu Dairy: 2 Estcourt, Estc Beef: 1 Pietermaritzb Beef: 1, Goat: 3 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	n, Camperdon lumeni Herd tcourt Vet Cli burg, Veterin 1 pe rg, Korhaanru n, Stellenboso	health linic nary House Hospita rug Dieregesondhei sch Animal Hospital	d								
Goat: 2  Dundee, Endumeni Herd health  Dairy: 2  Estcourt, Estcourt Vet Clinic  Beef: 1  Pietermaritzburg, Veterinary House Hospital  Beef: 1, Goat: 1  Western Cape  Moorreesburg, Korhaanrug Dieregesondheid  Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital  Beef: 1  Northern Cape  Kuruman, Kuruman Dierekliniek  Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Cape Norther Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Goat: 2  Dundee, Endu Dairy: 2  Estcourt, Goat: 1  Western Cape Moorreesburg Sheep: 2  Stellenbosch, Beef: 1  Northern Cap Kuruman, Kur Sheep: 2, Goat:  Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	lumeni Herd tcourt Vet Cli burg, Veterin 1 oe rg, Korhaanru n, Stellenboso	health linic nary House Hospita rug Dieregesondhei sch Animal Hospital	d								
Dundee, Endumeni Herd health Dairy: 2 Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North State State Natal Eastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat 2.0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Dundee, Endu Dairy: 2 Estcourt, Estcourt, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kuruman	tcourt Vet Cli burg, Veterin 1 De rg, Korhaanru n, Stellenbosc	inic nary House Hospita rug Dieregesondhei sch Animal Hospital	d								
Dairy: 2  Estcourt, Estcourt Vet Clinic Beef: 1  Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1  Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape 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 cases reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Dairy: 2 Estcourt, Estcomerical Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kuruma	tcourt Vet Cli burg, Veterin 1 De rg, Korhaanru n, Stellenbosc	inic nary House Hospita rug Dieregesondhei sch Animal Hospital	d								
Estcourt, Estcourt Vet Clinic Beef: 1 Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu-State Natal Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Estcourt, Estcomes Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cape Kuruman,	burg, Veterin 1 pe rg, Korhaanru n, Stellenboso pe	nary House Hospita rug Dieregesondhei	d								
Beef: 1  Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1  Western Cape  Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape  Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo 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 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Beef: 1 Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat Western Cape	burg, Veterin 1 pe rg, Korhaanru n, Stellenboso pe	nary House Hospita rug Dieregesondhei	d								
Pietermaritzburg, Veterinary House Hospital Beef: 1, Goat: 1 Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo 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 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Pietermaritzb Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	1 pe rg, Korhaanru n, Stellenboso pe	rug Dieregesondhei sch Animal Hospital	d								
Beef: 1, Goat: 1  Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  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 cases reported  Dairy  Goat  2.0 (1)  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Beef: 1, Goat: 1 Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	1 pe rg, Korhaanru n, Stellenboso pe	rug Dieregesondhei sch Animal Hospital	d								
Western Cape Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Western Cape Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average Level of import reported  Dairy Goat  Western Cape	oe rg, Korhaanru n, Stellenboso pe	sch Animal Hospital									
Moorreesburg, Korhaanrug Dieregesondheid Sheep: 2 Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 cases reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Moorreesburg Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average Level of import reported  Dairy Goat  Western Cape	rg, Korhaanru n, Stellenboso pe	sch Animal Hospital									
Sheep: 2  Stellenbosch, Stellenbosch Animal Hospital Beef: 1  Northern Cape  Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-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 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Sheep: 2 Stellenbosch, Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	n, Stellenboso pe	sch Animal Hospital									
Stellenbosch, Stellenbosch Animal Hospital Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Eastern Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy 3.0 (1)  Goat 3.0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Stellenbosch, Beef: 1 Northern Cap Kuruman, Kui Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	pe										
Beef: 1 Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2 Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 cases reported  Dairy  Goat  3.0 (1)  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Beef: 1 Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	pe										
Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rape 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 cases reported  Dairy  Goat  3.0 (1)  Goat  2.5 (2)  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Northern Cap Kuruman, Kur Sheep: 2, Goat: Red gut (to PROVINCE M  Average  Level of import reported  Dairy Goat  Western Cape	=	rekliniek									
Kuruman, Kuruman Dierekliniek Sheep: 2, Goat: 2  Red gut (torsion sheep and goats)  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 cases reported  Dairy 3.0 (1)  Goat 2.0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Red gut (to PROVINCE MAVERAGE  Level of import reported  Dairy  Goat  Western Cape	=	ekliniek									
Red gut (torsion sheep and goats)  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  3.0 (1)  Goat  Western Cape  Beaufort West, Beaufort West State Vet  Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Red gut (to PROVINCE M  Average  Level of import reported  Dairy  Goat  Western Cape	·										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Red gut (to PROVINCE M  Average  Level of import reported  Dairy  Goat  Western Cape											
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape 2.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy 3.0 (1)  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Average Level of import reported Dairy Goat Western Cape	Sheep: 2, Goat: 2										
Average  Limpopo West State Natal Cape Cape  2.5 (2)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  Western Cape  Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3	Average  Level of import reported  Dairy  Goat  Western Cape	torsion she	eep and goats)						^			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Level of import reported  Dairy  Goat  Western Cape	Mpumalanga	a Gauteng Limpopo	A					Northern Cape			
reported  Dairy  Goat  Western Cape Beaufort West, Beaufort West State Vet Goat: 2  Malmesbury, Malmesbury Dierehospitaal Dairy: 3	reported  Dairy  Goat  Western Cape							2.5 (2)				
Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Goat Western Cape	rtance scale: 1	1 = one case, 2 = mo	re than one	case but	t less than te	en and 3 =	more than 1	.0 cases			
Western Cape Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3	Western Cape											
Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3								2.0 (1)				
Beaufort West, Beaufort West State Vet Goat: 2 Malmesbury, Malmesbury Dierehospitaal Dairy: 3		ре										
Goat: 2  Malmesbury, Malmesbury Dierehospitaal  Dairy: 3			: West State Vet									
Dairy: 3												
			ry Dierehospitaal									
									<u>^</u>			
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape	PROVINCE M	, Malmesbury										
Average 2.0 (1) 2.0 (2) 1.6 (5) 1.0 (1) 1.6 (5)	Average	, Malmesbury er	a Gauteng Limpopo	A					Northern Cape			

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								1.7 (3)	
Sheep	2.0 (1)			2.0 (1)	1.6 (5)	1.0(1)		1.5 (2)	
Goat				2.0(1)					
Mpumalang									
	Longtom Dier	ekliniek							
Sheep: 2 North West									
	ontuur veterin	arv Pract	ice						
Sheep: 2, Go		,							
Free State									
	ocolan Dierek	liniek							
Sheep: 1			-1						
Sheep: 2	Kroonstad Die	renospita	aı						
	land Dierehos	nitaal							
Sheep: 2	2.0.000	p.caa.							
	nekal Dierekli	niek							
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na	itai zburg, Veterin	any House	. Hospital						
Sheep: 1	zburg, veteriii	ary mouse	riospitai						
Western Ca	pe								
	erberg Veteri	nary Hosp	ital						
Sheep: 2									
	orge Herd Hea	th Consul	t						
Dairy: 2	0-4								
Oudtshoorn Sheep: 1	, Ostrimea								
	Riversdal Dier	ekliniek							
Dairy: 2	141015441 2101								
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Diarrhoe	a								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (4)	2.2 (5)		2.8 (12)	2.3 (15)	2.5 (15)	1.7 (3)	2.2 (6)	2.0 (2)

(12)

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

2.8 (6)

(15)

2.3

2.3 (9)

3.0 (1)

reported

Beef

2.7 (3)

2.5 (2)

Dairy	3.0 (1)			2.0 (1)	3.0 (1)		2.0 (3)	
Sheep		2.5 (2)	2.8	(5) 2.4 (5)	3.0 (2)	1.5 (2)	2.0 (2)	2.0 (1)
Goat		1.0(1)	2.0	(1)	2.3 (3)	2.0 (1)		2.0 (1)
Mpumalar	nga							
Grootvlei,	Grootvlei Diere	ekliniek						
Beef: 2								
Lydenburg	g, Longtom Die	rekliniek						
Beef: 3, Da								
Lydenburg	g, Lydenburg Di	erespreekk	amer					
Beef: 3								
Gauteng								
	in, Bapsfontein	Dierehosp	itaal					
Beef: 2, Sh			_					
	kraal, Themba	Animal Clin	iiC					
Goat: 1			D					
Beef: 3, Sh	Anima Veterina	ry Consultii	ig kooms					
North Wes								
	s Dierekliniek							
Beef: 3, Sh								
	iac Dierekliniek							
Beef: 3		•						
	, Christiana Die	erehospitaa	1					

Beef: 3, Sheep: 3

Lichtenburg, Dr CM Kruger-Rall

Beef: 2 Calves

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3 Calves Sheep: 3 Lambs

Stella, Stella Dierekliniek

Beef: 3, Sheep: 3

**Zeerust, Avontuur veterinary Practice** 

Sheep: 2, Goat: 2 **Free State** 

**Bethlehem, Union Street Animal Consulting Rooms** 

Beef: 2, Sheep: 2

**Bloemfontein, University Free State** 

**Bultfontein, Greylingsrust Dierespreekkamer** 

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 1

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 2

**Excelsior, Weltevrede Dierekliniek** 

Beef: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal** 

Beef: 2, Shee	p: 2								
	n, Wesselsbroi	n Dierekli	niek						
Beef: 2, Shee									
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clini							
Beef: 2	ergvine vetern	ilary Cillin							
	n, Camperdov	ın Vet Cli	nic						
Beef: 1	ii, caiiipeidov	vii vet ein							
	dumeni Herd h	aalth							
	/: 3, Sheep: 3, G								
	nowe Veterina								
Beef: 1	iowe veterina	ту поѕріц	aı						
	toourt Vot Clim	i.							
	tcourt Vet Clin	IIC							
Beef: 3	C Vatarinam, C	!							
	G.Veterinary S	ervices							
Beef: 3		- 6							
	a, generally with			mponent					
	zburg, Veterin	ary House	Hospital						
Beef: 3, Shee	•								
	ngola Animal	Clinic							
Goat: 1									
	Underberg Ve	terinary S	urgery						
Beef: 2									
	heid Privaat V	eeartse							
Beef: 3									
Eastern Cap									
	p, Humansdor	p Veterina	ary Clinic						
Sheep: 2, Go									
	Uitenhage Die	rehospita	al						
Sheep: 1									
Western Ca	pe								
George, Geo	orge Herd Heat	th Consul	t						
Dairy: 2									
Oudtshoorn	, Ostrimed								
Beef: 3									
Calves									
Sheep: 3									
Lambs									
Plettenberg	Bay, Plettenb	erg Bay A	Reitz						
Dairy: 2									
Five calves -	no diagnosis yet								
Riversdale,	Riversdal Dier	ekliniek							
Dairy: 2, She	ep: 1								
<b>Northern Ca</b>									
	uruman Diere	kliniek							
Sheep: 2, Go									
<b>Epididym</b>	itis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

		•							
Average	2.0 (1)							1.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep	2.0 (1)							1.5 (2)	
Mpumalang	` '								
	Pets Vet Hosp	ital							
Sheep: 2									
Western Ca									
	,, Bergzight Di	ierehospit	aal						
Sheep: 1	1/								
Sheep: 2	ırg, Korhaanru	ig Dierege	sonaneia						
Sheep. 2									
Eye Canc	er								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.3 (3)		3.0 (1)	1.5 (2)	1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef							3.0 (1)	1.0(1)	1.0(1)
Dairy					1.5 (2)			2.0 (1)	
Sheep		1.0 (1)			1.0 (1)				
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Sheep: 1									
Free State	Union Street	Animal Co	ncultina P	nome					
Sheep: 1	omon street	Ailliai Co	nisulting it	.001113					
	/eltevrede Die	rekliniek							
Dairy: 2									
	nekal Dierekli	niek							
Dairy: 1									
Eastern Cap		\!avabaan!							
Beef: 3	, Steynsburg D	vierenospi	taai						
Western Ca	pe								
	orge Herd Hea	th Consul	t						
Dairy: 2									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Northern Ca	•								
Kuruman, K Beef: 1	uruman Diere	Kliniek							

Eye infec	tions								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	2.3 (6)	2.0 (3)	3.0 (5)	2.6 (21)	2.0 (10)	3.0 (2)	2.1 (8)	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									10 cases

reported

Beef	2.3 (3)	2.0 (1)	2.0 (1)	3.0 (3)	2.8 (12)	2.1 (7)	3.0 (1)	1.7 (3)	2.0 (1)
Dairy					2.0 (1)	2.0 (1)		2.3 (4)	
Sheep		2.5 (2)	2.0 (1)	3.0 (2)	2.7 (7)	1.0 (1)	3.0 (1)	3.0 (1)	
Goat		2.3 (3)	2.0 (1)		1.0 (1)	2.0 (1)			

## Mpumalanga

## Grootvlei, Grootvlei Dierekliniek

Beef: 2

#### Lydenburg, Longtom Dierekliniek

## Piet Retief, Pets Vet Hospital

Beef: 3 Gauteng

# **Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 2, Goat: 2

## Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2

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

Sheep: 3, Goat: 3 Limpopo

# **Bela Bela, Artemis Veterinary Services**

Sheep: 2, Goat: 2

# **Tzaneen, ZZ2 Farm Practice**

Beef: 2 **North West** 

# Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

## Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

# Stella, Stella Dierekliniek

Beef: 3, Sheep: 3 **Free State** 

## **Bloemfontein, Dr Stephan Wessels**

## **Bultfontein, Greylingsrust Dierespreekkamer**

Beef: 3, Sheep: 3

#### Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

**Dewetsdorp, Platkop Dierekliniek** Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Sheep: 2 **Reitz, Riemland Dierehospitaal** Beef: 3, Dairy: 2, Sheep: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Vrede, Vrede Dierehospitaal Beef: 3 Warden, Warden Dierekliniek Wesselsbron, Wesselsbron Dierekliniek Beef: 2, Sheep: 2, Goat: 1 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 2 **Estcourt, Estcourt Vet Clinic** Dairy: 2 Mtubatuba, Mtubatuba Animal Clinic Beef: 2, Goat: 2 **Newcastle, Ncanduvet Newcastle** Pongola, Pongola Animal Clinic Beef: 1 Moraxella bovis Sheep: 1 **Underberg, Underberg Veterinary Surgery Vryheid, Vryheid Privaat Veeartse** Beef: 2 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic** Beef: 3, Sheep: 3 **Western Cape** Caledon, Caledon Dierekliniek Beef: 2, Dairy: 2 Caledon, Overberg Veterinary Hospital Sheep: 3 George, George Herd Heath Consult Dairy: 2 Malmesbury, Bergzight Dierehospitaal Dairy: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Paarl, Paarl Dierehospitaal; Beef: 1 Stellenbosch, Stellenbosch Animal Hospital

Northern Ca	ape Turuman Diere	kliniak							
Beef: 2	uruman Diere	Kiiniek							
beer: 2									
Joint Ill									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.7 (3)	2.0 (6)	1.0 (2)	1.0 (1)	1.0 (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 1	l0 cases
Beef	2.0 (1)			2.5 (2)	2.0 (4)	1.0 (2)		1.0 (2)	2.0 (1)
Sheep				3.0 (1)	2.0 (2)				2.0 (1)
Goat							1.0(1)		
Mpumalang	a								
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 3, Shee	•								
	ontuur veterin	ary Pract	ice						
Beef: 2									
Free State	Union Street	Animal Ca	ncultina B	loome					
Beef: 1	Onion Street I	Allilliai Co	nisulting r	COULIS					
	Greylingsrust	Dierespr	eekkamer						
Beef: 2, Shee		. Бісі сэрі	CCIMATICI						
	, Platkop Dier	ekliniek							
Sheep: 2	,								
•	/eltevrede Die	rekliniek							
Beef: 2									
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na									
	tcourt Vet Clir	1IC							
Beef: 1	zburg, Veterin	any Hauss	Hoenital						
Beef: 1	zburg, veterin	ary House	riospital						
Eastern Cap	ne .								
	Uitenhage Die	rehospita	al						
Goat: 1		- 1							
Western Ca	ре								
	jerberg Diereh	ospitaal I	Darling						
	Riversdal Dier	ekliniek							
Beef: 1									
Northern Ca	ре								
	uruman Diere	kliniek							

Beef: 2, Shee	ep: 2								
Lameness/Foot Problems									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (5)	2.0 (6)		2.6 (5)	2.6 (21)	2.2 (10)	1.7 (3)	1.7 (7)	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 :	10 cases
Beef	1.3 (3)	2.0 (3)		2.3 (3)	2.3 (8)	2.0 (5)		1.0 (3)	3.0 (1)
Dairy					2.7 (3)			2.5 (2)	
Sheep	2.0 (1)	2.0 (2)		3.0 (2)	2.8 (10)	2.7 (3)	1.5 (2)	2.0 (2)	1.5 (2)
Goat	2.0 (1)	2.0 (1)				2.0 (2)	2.0 (1)		
Beef: 2, Shee	Longtom Dier ep: 2, Goat: 2								
	Lydenburg Di	erespreek	kamer						
Beef: 1	\	-1!!-							
Beef: 1	Grasslands vet	CIINIC							
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Goat									
Magaliesbu	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey						
Beef: 2									
Foot rot									
	ima Veterinar	y Consult	ing Rooms	3					
Sheep: 2				d D d.		animal Climi	_		
Beef: 2	nderstepoort A	icademic i	nospitai ai	na Proai	uction A	Animai Ciinio	<u>C</u>		
Seven cases									
Sheep: 2									
Two cases									
North West									
Christiana,	Christiana Die	rehospita	al						
Beef: 3, Shee									
	a Dierekliniek								
Beef: 3, Shee									
	ontuur veterin	ary Pract	ice						
Beef: 1 Free State									
	Bethlehem Ar	nimal Hoo	nital						
Sheep: 3	Detineneni Al	iiiiai nus	pital						
	in, Dr Stephar	Wessels							
Beef: 3, Shee									
	ocolan Dierek	liniek							

Beef: 2, Sheep: 3

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 1

**Excelsior, Weltevrede Dierekliniek** 

Sheep: 3

Hertzogville, Hertzogville Dierekliniek

Sheep: 3 Foot rot

**Kroonstad, Kroonstad Dierehospitaal** 

Beef: 1, Dairy: 3, Sheep: 2

**Reitz, Riemland Dierehospitaal** 

Beef: 3, Dairy: 3, Sheep: 3

Senekal, Senekal Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Vrede, Vrede Dierehospitaal

Sheep: 3

Foot rot after rains

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Camperdown, Camperdown Vet Clinic

Beef: 2

Laminitis, footrot

**Eshowe, Eshowe Veterinary Hospital** 

Beef: 2, Goat: 2

**Kokstad, E.G.Veterinary Services** 

Sheep: 3

Also starting to see a lot of footrot in sheep, especially from the surrounding rural areas who kraal at night. It seems to be a particularly vicious strain that spreads rapidly and causes massive cellulitis. We will have to keep an eye on it going forward into the new year.

**Newcastle, Ncanduvet Newcastle** 

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2, Sheep: 2, Goat: 2

**Underberg, Underberg Veterinary Surgery** 

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

**Alexandria, Riverview Trading Vet Consulting Services** 

Sheep: 1

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

Sheep: 2, Goat: 2

**Western Cape** 

Caledon, Caledon Dierekliniek

Beef: 1, Sheep: 2

George, George Herd Heath Consult

Dairy: 3

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

**Oudtshoorn, Oudtshoorn Dierekliniek** 

Beef: 1

Paarl, Paarl Dierehospitaal;

Reef: 1

**Swellendam, Swellendam Dierehospitaal** 

Dairy: 2									
Foot rot cattle	 _								
Northern Ca									
	Kimberley Die	rakliniak							
Sheep: 1	Killiberiey Die	CKIIIICK							
Foot rot									
	Zuruman Diara	klimiak							
	Kuruman Diere	Kiiiiek							
Beef: 3, Shee	ep: 2								
Lung infe	ection								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	2.0 (1)		2.0 (3)	2.2 (17)	2.5 (4)		2.4 (9)	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	1.7 (3)			2.0 (1)	(9)	2.3 (3)		2.5 (2)	2.0 (1)
Dairy					2.0 (1)			2.3 (4)	
Sheep	2.0 (1)	2.0 (1)		2.0 (1)	2.4 (7)	3.0 (1)		2.7 (3)	
Goat				2.0(1)					
Mpumalang	ıa								
	hal Diereklinie	k							
Beef: 2									
	rootvlei Diere	kliniek							
Beef: 2									
	Lydenburg Die	erespreek	kamer						
Beef: 1									
Piet Retief,	<b>Pets Vet Hosp</b>	ital							
Sheep: 2									
Gauteng									
	nima Veterinar	y Consulti	ing Rooms	3					
Sheep: 2			J						
North West									
	ontuur veterin	arv Practi	ice						
	ep: 2, Goat: 2	,							
Free State	,								
	Union Street	Animal Co	nsultina R	Rooms					
Beef: 2	Jilon Street I	ai C0	suitilig N						
	in, Dr Stephan	Wessels							
Beef: 1	iii, Di Stepilali	**C33C13							
	in, University	Fraa State	`						
Sheep: 2	iii, Oiliveisity	i i ee Statt	•						
	Gravlingerust	Diorosan	ooldkamar						

**Bultfontein, Greylingsrust Dierespreekkamer** 

Clocolan, Clocolan Dierekliniek

Sheep: 3

Beef: 2, Sheep: 2

**Dewetsdorp, Platkop Dierekliniek** 

Dairy: 2

Harrismith, Harrismith Dierehospitaal

Beef: 2

Hertzogville, Hertzogville Dierekliniek

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic** 

Beef: 1

Reitz, Riemland Dierehospitaal

Beef: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 2

**Underberg, Underberg Veterinary Surgery** 

Beef: 3, Sheep: 3
Western Cape

**Darling, Tygerberg Dierehospitaal Darling** 

Dairv: 3

**George, George Animal Hospital** 

Sheep: 3

George, George Herd Heath Consult

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 1

Paarl, Paarl Dierehospitaal;

Beef: 3, Dairy: 3, Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

Swellendam, Swellendam Dierehospitaal

Sheep: 3

Pneumonia in lambs

**Northern Cape** 

Kimberley, Kimberley Dierekliniek

Beef: 2

Pleuritis seen at abattoir

Mastitis in general									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.3 (6)		3.0 (3)	2.0 (5)	2.0 (3)	2.0 (1)	2.2 (6)	2.0 (1)

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

	_							
Beef		1.0 (2)	3.0 (2)	3.0	1.5 (2)	2.0 (1)	2.0(1)	2.0(1)
Deci		1.0 (2)	3.0 (2)	(1)	1.3 (2)	2.0 (1)	2.0 (1)	2.0 (1)
Dairy	2.0 (1)	1.0 (1)		1.7	3.0 (1)		2.2 (5)	
Dali y	2.0 (1)	1.0 (1)		(3)	3.0 (1)		2.2 (5)	
Chara		1.5.(2)	2.0 (1)	2.0				
Sheep		1.5 (2)	3.0 (1)	(1)				
Goat		2.0 (1)		, ,				
Mpumalan	na							
	, Longtom Die	rekliniek						
Dairy: 2	,							
Gauteng								
	raal, Themba	Animal Clinic						
	y: 1, Goat: 2							
	l Diere Spreek	kamer						
Beef: 1								
Pretoria, A	nima Veterina	ry Consulting R	ooms					
Sheep: 2								
	nderstepoort /	Academic Hosp	ital and Produ	iction A	nimal Clinic	С		
Sheep: 1								
North West	t							
Christiana,	Christiana Die	erehospitaal						
Beef: 3, She		-						
Zeerust, Av	ontuur veterii	nary Practice						
Beef: 3								
Free State								
<b>Bloemfonte</b>	ein, Dr Stepha	n Wessels						
Beef: 3								
Bloemfonte	ein, University	Free State						
Dairy: 1, She								
•	locolan Dierek	diniek						
Dairy: 2								
	enekal Dierekl	iniek						
Dairy: 2								
Kwazulu-N								
	, Mtubatuba A	nimal Clinic						
Beef: 1								
	ongola Animal	Clinic						
Beef: 2								
	, Underberg Ve	eterinary Surge	ry					
Dairy: 3								
Eastern Ca								
	rp, Humansdo	rp Veterinary C	linic					
Beef: 2								
Western Ca								
	verberg Veteri	inary Hospital						
Dairy: 2		h ! D - !!						
	gerberg Diere	hospitaal Darlii	19					
Dairy: 2	Ar-!! !!	laanital						
	orge Animal H	iospitai						
Dairy: 3	oven Hard II.	th Canada						
	orge Herd Hea	itn Consult						
Dairy: 3	ar Du Otto V-1	N.						
Maimespul	y, Dr Otto Krie	S.N.						

Moorreesburg, Korhaanrug Dieregesondheid Beef: 2 Northern Cape Kuruman, Kuruman Dierekliniek Beef: 2 Navel III  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1) 1.3 (3)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Beef 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1)  Dairy 1.5 (2)										
Reef: 2 Northern Cape Kuruman, Kuruman Dierekliniek Beef: 2 Navel III  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1) 1.3 (3)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Beef 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1)										
Northern Cape Kuruman, Kuruman Dierekliniek Beef: 2  Navel III  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1) 1.3 (3)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Beef 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1)										
Kuruman, Kuruman Dierekliniek   Beef: 2   Navel III   PROVINCE Mpumalanga Gauteng Limpopo West North West Free State Kwazulu- Natal Eastern Cape Western Cape   Average 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1) 1.3 (3)   Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported   Beef 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1)										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  Average 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1) 1.3 (3)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reported  Beef 2.0 (1) 1.5 (2) 2.0 (1) 2.0 (2) 1.0 (1)										
PROVINCEMpumalangaGautengLimpopoNorth WestFree StateKwazulu- NatalEastern CapeWestern CapeAverage $2.0 (1)$ $1.5 (2)$ $2.0 (1)$ $2.0 (1)$ $1.0 (1)$ $1.3 (3)$ Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than reportedBeef $2.0 (1)$ $1.5 (2)$ $2.0 (1)$ $2.0 (1)$ $2.0 (1)$										
Average $2.0 (1)$ $1.5 (2)$ $2.0 (1)$ <										
Level of importance scale: $1 = \text{one case}$ , $2 = \text{more than one case but less than ten and } 3 = \text{more than reported}$ Beef $2.0 (1)$ $1.5 (2)$ $2.0 (1)$ $2.0$ $2.0 (1)$	Cape									
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									
1.5 (2)										
Sheep 1.0 (1)										
Mpumalanga										
Lydenburg, Longtom Dierekliniek										
Beef: 2										
Gauteng										
Bapsfontein, Bapsfontein Dierehospitaal										
Beef: 1										
Hammanskraal, Themba Animal Clinic										
Beef: 2										
North West										
Christiana, Christiana Dierehospitaal Beef: 2										
Free State										
Bultfontein, Greylingsrust Dierespreekkamer										
Beef: 2										
Winburg, Winburg Dierekliniek										
Beef: 2										
Kwazulu-Natal										
Camperdown, Camperdown Vet Clinic										
Beef: 1										
Western Cape										
Darling, Tygerberg Dierehospitaal Darling										
Dairy: 1 George, George Herd Heath Consult										
Dairy: 2										
Riversdale, Riversdal Dierekliniek										
Sheep: 1										
Trauma										
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape										

Average	2.0 (2)	1.0 (1)			1.5 (2)	1.0 (1)		1.7 (3)	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 1	l0 cases
Beef	2.0 (1)	1.0(1)			2.0 (1)			2.0 (1)	3.0 (1)
Dairy						_		2.0 (1)	
Sheep	2.0 (1)				1.0 (1)			1.0 (1)	
Goat						1.0(1)			
Mpumalang	ja					. ,	_		
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2, Shee	ep: 2								
Gauteng									
	Diere Spreekl	kamer							
Beef: 1 Free State									
	in, University	Eroo State	<u> </u>						
Sheep: 1	iii, Oiliversity	i i ee Stati	<b>-</b>						
Metacarpal fr	acture								
	Kroonstad Die	rehospita	al						
Beef: 2									
Kwazulu-Na									
	n, Camperdov	vn Vet Cli	nic						
Goat: 1 Fractured tibi	in .								
Western Ca									
	Dierehospitaa	al:							
	y: 2, Sheep: 1	,							
Northern Ca									
	Kimberley Die	rekliniek							
Beef: 3									
Bruising seen	at abattoir								
Downer									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	2.0 (1)		3.0 (1)	1.5 (4)	1.0 (1)	1.0 (1)	1.5 (4)	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 1	l0 cases
Beef	1.0 (1)	2.0 (1)		3.0 (1)	1.5 (4)	1.0 (1)	1.0 (1)	1.0 (1)	2.0 (1)
Dairy								1.7 (3)	
Sheep	1.0(1)								
-	. ,								
<b>Mpumalang</b>	a								

Breef: 1 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 North West Zeerust, Avontuur veterinary Practice Beef: 3 Free State Bultfontein, Greylingsrust Dierespreekkamer Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 1 Winburg, Winburg Dierekliniek Beef: 1 Winburg, Winburg Dierekliniek Beef: 1 Reastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Beef: 1 Beef: 1 Bestern Cape Caledon, Overberg Veterinary Hospital Dainy: 2 George, George Herd Heath Consult Dainy: 2 Beef: 1 Riversdale, Riversdal Dierekliniek Beef: 1 Riversdale, Riversdal Dierekliniek Beef: 1 Riversdale, Riversdal Dierekliniek Beef: 2 Other  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Eastern Cape Average  1.0 (2) 1.0 (1) 1.0 (1) 2.0 (	Bethal, Betl	hal Diereklinie	k							
Beef: 1  Sauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 Morth West Beef: 1  Sauteng Beef: 2 Memel, Memel Veterinary Clinic Beef: 2 Memel, Memel Veterinary Clinic Beef: 1  Winburg, Winburg Dierekliniek Beef: 1  Sextourt, Estcourt Vet Clinic Beef: 1  Sextourt, Estcourt Veterinary Hospital Beef: 2  Caledon, Overberg Veterinary Hospital Dairy: 2  Caledon, Overberg Veterinary Hospital Beef: 2  Other  PROVINCE Mpumalanga Gauteng Limpopo North West Seef: 2  Other  1.0 (2) 1.0 (1) 1.0 (1) 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef: 1.0 (1) 1.0 (1) 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Bauting Gauteng  1.0 (1) 1.0 (1) 2.0 (1)  Second Cauteng	Sheep: 1									
Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 Recent 2 Recent 3 Recent 3 Recent 3 Recent 3 Recent 3 Recent 3 Recent 4 Recent 4 Recent 5 Recent 5 Recent 5 Recent 6 Recent 1 Recent		rootvlei Diere	kliniek							
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 North West Zeerust, Avontuur veterinary Practice Beef: 3 Builfontein, Greylingsrust Dierespreekkamer Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 1 Winburg, Minburg Dierekliniek Beef: 2 Kwazulu-Natal Estcourt, Estcourt Vet Clinic Beef: 1 Western Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Bergzight Dierehospitaal Beef: 1 Minburgy, Bergzight Dierehospitaal Beef: 1 Minburg, Briversdal Dierekliniek Dairy: 1 Northern Cape Kuruman, Kuruman Dierekliniek Beef: 2 Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1 Ling (1) 1.0 (1) 2.0 (1) Dairy Goat 1.0 (1) 1.0 (1) 2.0 (1) Dairy Goat 1.0 (1) 2.0 (1) Dairy Goat Gauteng	Beef: 1									
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2 North West Zeerust, Avontuur veterinary Practice Beef: 3 Builfontein, Greylingsrust Dierespreekkamer Beef: 1 Kroonstad, Kroonstad Dierehospitaal Beef: 1 Winburg, Minburg Dierekliniek Beef: 2 Kwazulu-Natal Estcourt, Estcourt Vet Clinic Beef: 1 Western Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Western Cape Caledon, Overberg Veterinary Hospital Dairy: 2 Malmesbury, Bergzight Dierehospitaal Beef: 1 Minburgy, Bergzight Dierehospitaal Beef: 1 Minburg, Briversdal Dierekliniek Dairy: 1 Northern Cape Kuruman, Kuruman Dierekliniek Beef: 2 Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Beef 1 Ling (1) 1.0 (1) 2.0 (1) Dairy Goat 1.0 (1) 1.0 (1) 2.0 (1) Dairy Goat 1.0 (1) 2.0 (1) Dairy Goat Gauteng	Gauteng									
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Caledon, Overberg Veterinary Hospital  Dairy: 2  George, George Herd Heath Consult  Dairy: 2  Malmesbury, Bergzight Dierehospitaal  Beef: 1  Riversdale, Riversdal Dierekliniek  Dairy: 1  Northern Cape  Kuruman, Kuruman Dierekliniek  Beef: 2  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average 1.0 (2) 1.0 (1) 1.5 (2) 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 1.0 (1) 1.0 (1) 1.0 (1) 2.0 (1)  Dairy Goat 1.0 (1)  Gauteng										
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George, George Herd Heath Consult  Dairy: 2  Malmesbury, Bergzight Dierehospitaal  Beef: 1  Riversdale, Riversdal Dierekliniek  Dairy: 1  Northern Cape  Kuruman, Kuruman Dierekliniek  Beef: 2  Other  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rape Cape Northern Cape  Average 1.0 (2) 1.0 (1) 1.5 (2) 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef 1.0 (1) 1.0 (1) 1.0 (1) 1.0 (1) 2.0 (1)  Goat 1.0 (1)  Gauteng		erberg veterii	nary Hosp	ıtaı						
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Teported	Average		1.0 (2)	1.0 (1)					1.5 (2)	2.0 (1)
Dairy 2.0 (1)  Goat 1.0 (1)  Gauteng	Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat 1.0 (1)	Beef		1.0(1)	1.0(1)					1.0 (1)	2.0 (1)
Gauteng	Dairy								2.0 (1)	
	Goat		1.0 (1)							
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic	Gauteng									
						_				

Rectal prolap	S								
Goat: 1									
	s; abdominal he	rnia							
Limpopo	-,								
	Kranskop Dier	ekliniek							
Beef: 1	•								
One bull died	with hind leg ly	mphangitis	- no diagno	sis of ca	use				
Western Ca			_						
Plettenberg	Bay, Plettenb	erg Bay A	Reitz						
Dairy: 2									
	cows with squar			removed	l surgica	lly			
	n, Swellendam	Dierehos	pitaal						
Beef: 1									
	down in a bull du	ue to an ob	struction						
Northern Ca	-								
	Kimberley Die	rekliniek							
Beef: 2									
Injection mar	KS								
Vestubul	ar syndrom	e (Middl	e ear inf	ection	)				_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		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)			_	
Free State									
	ocolan Dierek	liniek							
Sheep: 1									
Wet carc	asses								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.7 (3)	2.5 (2)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef								3.0 (1)	2.0(1)
Dairy								3.0 (1)	
<del>-</del>								· · ·	2 0 (1)
Sheep								2.0 (1)	3.0 (1)
Western Ca	•								
	Dierehospitaa	ıl;							
	y: 3, Sheep: 2								
Northern Ca	<del>-</del>	ol: .:							
je Aar, Dê i	Aar Veterinary	CIINIC							

C	heep:	3
9	neep.	J

Increased wet carcasses seen at abattoirs severly bruised as well. Some wet carcasses dried off. Stress may play a role. Some carcasses in excellent condition.

### Kimberley, Kimberley Dierekliniek

Beef: 2 At abattoir

Yellow cascases at abattoir									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	Average 2.0						2.0 (4)	1.0 (1)	

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

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

### **Western Cape**

### **George, George Animal Hospital**

Sheep: 2

### Paarl, Paarl Dierehospitaal;

Beef: 2, Dairy: 2, Sheep: 2

**Northern Cape** 

### Kimberley, Kimberley Dierekliniek

Beef: 1

DCCI. I	Beer: 1										
Metabolic Diseases											
Acidosis											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average		1.0 (2)			1.0 (1)	2.3 (3)		2.2 (6)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases		
Beef		1.0(1)						1.5 (2)			
Dairy						3.0 (1)		2.0 (1)			
Sheep		1.0(1)			1.0 (1)	2.0 (1)		2.7 (3)			
Goat						2.0 (1)					

#### Gautena

### **Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 1, Sheep: 1
Free State

#### Senekal, Senekal Dierekliniek

Sheep: 1

	_									
Kwazulu-Na										
	n, Camperdov	vn Vet Cli	nic							
Sheep: 2										
	dumeni Herd h	nealth								
Dairy: 3										
	zburg, Veterin	ary House	Hospital							
Goat: 2										
Western Ca										
	ledon Dierekli	niek								
Sheep: 3	(WC) Haidalla	D:I								
	(WC), Heidelb	erg Dierei	Kiiniek							
Dairy: 2, Shee	ep: Հ rg, Korhaanru	a Dioroga	condhoid							
Sheep: 3	ig, Kuillaalliu	y Dielege	Sonuneiu							
	h, Stellenbosc	h Animal	Hoenital							
Beef: 1	ii, Stellelibosc	II Allillai	поэрна							
	, Swellendam	Dierehos	nitaal							
Beef: 2	i, Swelleridaili	Dicicios	pitaai							
Displaced	l abomasun	1							_	
						1/	<b>-</b>	144	N 1	
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern	Western	Northern	
				west	State	ivatai	Cape	Cape	Cape	
_						0.0 (1)		1.0 (1)		
Average						3.0 (1)		1.0 (1)		
Level of importance scale: $1 = $ one case, $2 = $ more than one case but less than ten and $3 = $ more than 10 cases										
reported										
Dairy						3.0 (1)		1.0(1)		
Kwazulu-Na	ital									
	dumeni Herd h	nealth								
Dairy: 3										
Western Ca	pe									
	orge Herd Hea	th Consul	t							
Dairy: 1										
Ketosis									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern	
. KOVIKE	paa.aga	Guaterig	Limpopo	West	State	Natal	Cape	Cape	Cape	
Average						2.0 (1)		3.0 (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										
Dairy						2.0(1)		3.0 (1)		
Kwazulu-Na	ıtal							(1)		
	itai dumeni Herd h	nealth								
Dairy: 2	admem nerd I	Icaitii								
Western Ca	ne									
	pe orge Herd Hea	th Consul	<b>:</b>							
Dairy: 3	go nera nea	consul								
_ 3.1. 7.1. 3										

Milk Feve	er								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)		2.0 (2)	2.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef									2.0 (1)
Dairy								2.0(2)	
Sheep						1.0(1)			
Western Cape George, George Herd Heath Consult  Dairy: 3 Riversdale, Riversdal Dierekliniek  Dairy: 1 Northern Cape Kuruman, Kuruman Dierekliniek  Beef: 2  Reproductive diseases									
	(Difficult Bi	rths)							
Dystocia	(Difficult Bi		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

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

Beef	1.8 (4)	1.5 (4)	1.5 (2) 2.7 (6) 2.7 (1)	2 7) 2.1 (7)	1.7 (3)	1.5 (2)	2.0 (1)
Dairy		1.0(1)		2.0(1)		1.6 (8)	
Sheep		1.5 (2)	3.0 (1) 2.	.5	2.0 (1)	2.0 (1)	

# Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dierespreekkamer

Beef: 1

Middelburg, Neil Fourie Veeartsenydienste

# Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2, Sheep: 1 Hammanskraal, Themba Animal Clinic Beef: 2 Nigel, Nigel Diere Spreekkamer Beef: 1, Dairy: 1 **Pretoria, Anima Veterinary Consulting Rooms** Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1

### Limpopo

**Modimolle, Kranskop Dierekliniek** 

# **Mokopane, Bundu Veterinary Services**

Beef: 2 **North West** 

#### **Brits, Brits Dierekliniek**

Beef: 2

#### Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

#### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3 Heifers too fat

#### Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Two caesareans

## Stella, Stella Dierekliniek

# Vryburg, Molopo Dierekliniek

Beef: 3 **Free State** 

## **Bethlehem, Union Street Animal Consulting Rooms**

### **Bloemfontein, Dr Stephan Wessels**

Beef: 2

#### **Bloemfontein, University Free State**

Beef: 1, Sheep: 2

#### **Bultfontein, Greylingsrust Dierespreekkamer**

Beef: 2

#### Clocolan, Clocolan Dierekliniek

Beef: 2

#### **Ficksburg, Oosvrystaat Diere Produkte**

#### Hertzogville, Hertzogville Dierekliniek

Beef: 2 Six cases

### Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

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

Beef: 2, Sheep: 2

#### **Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Sheep: 2

#### **Memel, Memel Veterinary Clinic**

Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3 Warden, Warden Dierekliniek Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2 Winburg, Winburg Dierekliniek Beef: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic Dundee, Endumeni Herd health** Beef: 2 **Eshowe, Eshowe Veterinary Hospital** Beef: 1 **Estcourt, Estcourt Vet Clinic** Beef: 2, Dairy: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3 **Underberg, Underberg Veterinary Surgery** Beef: 3 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek **Humansdorp, Humansdorp Veterinary Clinic** Sheep: 2 Steynsburg, Steynsburg Dierehospitaal Uitenhage, Uitenhage Dierehospitaal Beef: 1 **Western Cape Caledon, Overberg Veterinary Hospital** Beef: 2, Dairy: 2, Sheep: 2 **Darling, Tygerberg Dierehospitaal Darling** Dairy: 2 George, George Herd Heath Consult Dairy: 2 Malmesbury, Bergzight Dierehospitaal Dairy: 2 Malmesbury, Dr Otto Kriek Dairy: 1 Riversdale, Riversdal Dierekliniek Stellenbosch, Stellenbosch Animal Hospital Beef: 1, Dairy: 1 Swellendam, Swellendam Dierehospitaal Dairy: 2 **Northern Cape** 

Kimberley, Kimberley Dierekliniek

Beef: 2									
Endomet	ritis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			3.0 (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								3.0 (2)	
Beef: 2 <b>Western Ca</b>	-								
	orge Herd Hea	th Consul	t						
Dairy: 3									
Malmesbury Dairy: 3	y, Bergzight Di	ierehospit	aal						
Metritis				,	,				^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		2.0 (1)	3.0 (2)			2.3 (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	10 cases
Beef		2.0 (1)		2.0 (1)	3.0 (1)				
Dairy					3.0 (1)			2.3 (3)	
Gauteng Bapsfonteir	n, Bapsfontein	Dierehosi	oitaal						
	7								
Beef: 2									
North West									
North West Christiana,			al						
North West Christiana, Beef: 2			al						
North West Christiana, Beef: 2 Free State	Christiana Die	rehospita	al						
North West Christiana, Beef: 2 Free State Senekal, Se		rehospita	al						
North West Christiana, Beef: 2 Free State Senekal, Se Dairy: 3	Christiana Die nekal Dierekli	rehospita niek	al						
North West Christiana, Beef: 2 Free State Senekal, Se Dairy: 3 Winburg, W	Christiana Die	rehospita niek	al						
North West Christiana, Beef: 2 Free State Senekal, Se Dairy: 3 Winburg, W Beef: 3	Christiana Die nekal Dierekli Inburg Dierek	rehospita niek	al						
North West Christiana, Beef: 2 Free State Senekal, Se Dairy: 3 Winburg, W Beef: 3 Western Ca	Christiana Die nekal Dierekli Inburg Dierek	rehospita niek liniek							

Dairy: 3									
	orge Herd Hea	th Consul	ŧ						
Dairy: 2									
	, Swellendam	Dierehos	pitaal						
Dairy: 2	•		-						
Poor con	ception								^
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 (3)	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 I	10 cases
Beef	2.0 (1)				2.0 (1)	2.0 (3)			
Dairy								2.0(1)	
Sheep					1.0 (1)		3.0 (1)		
Mpumalang	a								
	Longtom Dier	ekliniek							
Beef: 2									
Free State									
Excelsior, W	eltevrede Die	rekliniek							
Sheep: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									
Kwazulu-Na	tal								
Dundee, En	dumeni Herd h	nealth							
Beef: 1									
Eshowe, Esl	nowe Veterina	ry Hospita	al						
Beef: 2									
Underberg,	<b>Underberg Ve</b>	terinary S	Surgery						
Beef: 3									
Early foetal d	eath								
Eastern Cap	e								
Steynsburg,	Steynsburg D	ierehospi	taal						
Sheep: 3									
Western Ca	ре								
Swellendam	, Swellendam	Dierehos	pitaal						
Dairy: 2									
Follicular ysts									
Retained	afterbirth								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			2.0 (2)	1.7 (3)	1.7 (3)	1.0 (1)	1.6 (5)	3.0 (1)

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

Beef	2.0 (1)	2.0 (	$(2) \begin{array}{ c c } \hline 3.0 \\ \hline (1) \\ \hline \end{array}$	1.7 (3)	1.0 (1)	1.0 (1)	3.0 (1)
Dairy			1.0 (2)			1.8 (4)	
Sheep	2.0(1)						

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2
North West

Christiana, Christiana Dierehospitaal

Beef: 2

Vryburg, Molopo Dierekliniek

Beef: 2 Free State

**Bloemfontein, University Free State** 

Dairy: 1

Ficksburg, Oosvrystaat Diere Produkte

Dairy: 1

**Winburg, Winburg Dierekliniek** 

Beef: 3

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beet: 2

**Newcastle, Ncanduvet Newcastle** 

Beef: 1

**Underberg, Underberg Veterinary Surgery** 

Beef: 2
Eastern Cape

Witelsbos, Witelsbos Veterinary Consulting Rooms

Beef: 1

Western Cape Caledon, Caledon Dierekliniek

Dairy: 1

**Darling, Tygerberg Dierehospitaal Darling** 

Dairy: 2

Malmesbury, Bergzight Dierehospitaal

Dairy: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1, Dairy: 1
Northern Cape

Kuruman, Kuruman Dierekliniek

Sheath Prolaps									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)			1.3 (4)	1.0 (3)			1.0 (1)

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

Beef	1.0 (1)	1.3 (4)	1.0 (3)	1.0(1)
Dairy	1.0(1)			

#### Gauteng

#### Hammanskraal, Themba Animal Clinic

Beef: 1

### Nigel, Nigel Diere Spreekkamer

Dairy: 1

#### Free State

#### **Excelsior, Weltevrede Dierekliniek**

Beef: 1

### Hoopstad, Hoopstad Dierekliniek

Beef: 1

### Kroonstad, Kroonstad Dierehospitaal

Beef: 1

## Winburg, Winburg Dierekliniek

Beef: 2

#### Kwazulu-Natal

### Bergville, Bergville Veterinary Clinic

Beef: 1

### **Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

### Pongola, Pongola Animal Clinic

Beef: 1

### **Northern Cape**

# Kuruman, Kuruman Dierekliniek

Beef: 1

Uterus prolaps									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	1.0 (1)	1.0 (1)		1.7 (6)	1.3 (3)		1.5 (2)	2.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported								10 cases	
Beef	1.0 (2)	1.0 (1)			1.5 (4)	1.3 (3)			2.0 (1)
Dairy								1.5 (2)	

1.0(1)

2.0

(2)

#### Mpumalanga

#### Grootvlei, Grootvlei Dierekliniek

2.0(1)

Beef: 1

Sheep

### Lydenburg, Longtom Dierekliniek

Sheep: 2

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

Beef: 1										
Gauteng										
Hammansk	raal, Themba <i>A</i>	Animal Cli	nic							
Beef: 1										
Limpopo										
Bela Bela, A	rtemis Veterin	nary Servi	ces							
Sheep: 1										
Free State										
	Union Street A	Animal Co	nsulting F	Rooms						
Beef: 1										
	in, University	Free State	•							
Sheep: 1										
	Dosvrystaat Di	ere Produ	kte							
Beef: 1										
	loopstad Diere	ekliniek								
Beef: 2, Shee										
	nekal Dierekli	niek								
Beef: 2										
Kwazulu-Natal										
	ergville Veteri	nary Clini	C							
Beef: 1										
	dumeni Herd h	nealth								
Beef: 2										
	Mtubatuba Ar	nimal Clin	ic							
Beef: 1										
Western Ca										
	erberg Veterii	nary Hosp	ital							
Dairy: 2										
	y, Bergzight Di	erehospit	aal							
Dairy: 1										
Northern Ca	-									
	uruman Diere	Kliniek								
Beef: 2										
Vaginal (	Cervical) pr	olaps							^	
PROVINCE	Mpumalanga	Gauteng	Limpono	North		Kwazulu-			Northern	
IROVINCE	- pamaianga	Guuteng	Limpopo	West	State	Natal	Cape	Cape	Cape	
Average	1.0(1)	2.0(1)		2.0(1)	1.9	1.6 (5)		2.0(2)		
Average	1.0 (1)	2.0 (1)		2.0 (1)	(8)	1.0 (3)		2.0 (2)		
					<u> </u>					
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases	
reported										
					1.0					
Beef	1.0(1)	2.0(1)		2.0(1)	1.6	1.6 (5)				
	110 (1)	2.0 (1)		(1)	(5)	110 (0)		_		
Dairy								2.0(1)		
,					2.2			2.0 (1)		
Sheep					2.3			2.0(1)		
(3)										
Mpumalanga										
	irootvlei Diere	kliniek								
Beef: 1										
Gauteng										
dutelig										

Hammanskraal.	Thombo	Animal	Clinic
Hammanskraai.	. inemba	Anımaı	Clinic

Beef: 2 North West

Vryburg, Molopo Dierekliniek

Beef: 2
Free State

**Bultfontein, Greylingsrust Dierespreekkamer** 

Sheep: 2

Clocolan, Clocolan Dierekliniek

Beef: 1

**Dewetsdorp, Platkop Dierekliniek** 

Beef: 1

Hertzogville, Hertzogville Dierekliniek

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal** 

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Camperdown, Camperdown Vet Clinic

Beef: 1

**Dundee, Endumeni Herd health** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

**Western Cape** 

Mpumalanga

**Bethal, Bethal Dierekliniek** 

Caledon, Overberg Veterinary Hospital

Dairy: 2, Sheep: 2

Climatical Cause										
Lightning										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.3 (4)	2.0 (1)		2.0 (1)	2.4 (9)	2.3 (4)	1.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	2.0 (3)	2.0 (1)		2.0 (1)	2.5 (8)	2.3 (3)	1.0 (1)			
Sheep	3.0 (1)				2.0 (1)	2.0 (1)				

D C - 1											
Beef: 1			_								
	Lydenburg Die	erespreek	kamer								
Beef: 3											
Volksrust, G	irasslands vet	clinic									
Beef: 2, Shee	p: 3										
Gauteng											
Nigel, Welg	elegen Dierek	liniek									
Beef: 2											
Five cases											
North West											
	stad, Leeudori	nastad Di	orokliniok								
Beef: 2	stau, Leeuuoii	ngstau Di	CICKIIIICK								
Free State											
	Uanniamith Di	b <del>-</del>	1								
	Harrismith Di	erenospita	aaı								
Beef: 3											
	loopstad Diere	ekliniek									
Beef: 3											
	nel Veterinary	Clinic									
Beef: 2											
Oranjeville,	<b>Grasveld Kud</b>	degesond	heid								
Beef: 3											
Reitz, Riem	land Dierehos	pitaal									
Beef: 2											
Vrede, Saul	shoek Dierege	sondheid.									
Beef: 3, Shee	p: 2										
	rden Dierekli	niek									
Beef: 1											
	inburg Dierek	liniek									
Beef: 3											
Kwazulu-Na	ıtal										
	ergville Veteri	nary Clinie	_								
Beef: 2	ergville veteri	ilary Cillin	<u> </u>								
	dumeni Herd l	andth.									
		leaitii									
Beef: 2, Shee											
	Ncanduvet Ne	wcastie									
Beef: 3											
Eastern Cap											
	n, Queenstowi	n Veterina	ry clinic								
Beef: 1											
Non spor	cific diseas	.oc									
Mon spe	ciric diseas	C5									
Cause of	death not e	stablish	ed						_		
				North	Free	Kwazulu-	Eastern	Western	Northern		
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape		
					1.0						
Average					1.0			2.0(1)			
71. C. u.g.c					(1)			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	_										
•											
Dairy								2.0 (1)			

Goat					1.0 (1)						
Free State					(1)						
	ırden Dierekliı	niek									
Goat: 1											
Western Cape											
George, George Herd Heath Consult											
Dairy: 2											
Dermatos	sparaxis								_		
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		
Beef					2.0 (1)						
Free State											
Winburg, W	inburg Dierek	liniek									
Beef: 2											
Genetic d	isorders								_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average						1.0 (1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef						1.0(1)					
Kwazulu-Na	tal					1.0 (1)					
	ergville Veteri	nary Clini	С								
Beef: 1		·									
Preditors									_		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average					3.0 (1)				1.0 (1)		
Level of 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)						

Sheep									1.0(1)
Free State									
Winburg, Winburg Dierekliniek									
Beef: 3									
Northern Ca	аре								
	uruman Diere	kliniek							
Sheep: 1									
Sabotatio	on/Theft								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (2)	2.8 (8)	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				1.0 (1)	(5)	3.0 (1)			
Sheep				1.0 (1)	3.0 (3)				
North West									
Zeerust, Av	ontuur veterin	ary Pract	ice						
Beef: 1, Shee	ep: 1								
Free State									
	, Greylingsrust	Dierespr	eekkamer						
Beef: 1									
	ocolan Dierek	liniek							
Beef: 3, Shee		dagaaand	haid						
Beef: 3, Shee	Grasveld Kud	uegesona	neiu						
	arden Dierekli:	niek							
Beef: 3, Shee		IICK							
	inburg Dierek	liniek							
Beef: 3									
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	С						
Beef: 3									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		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)						
Sheep		2.0 (1)							
<b>-</b>		2.0 (1)							

Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2	radi, memba i	anninai Cii	1110						
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clini			
Sheep: 2	- a constant								
Fractures									
Limpopo									
	Bundu Veterin	ary Servi	ces						
Beef: 2									
Traumatic reticulo-pericarditis									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.5 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		1.0(1)			1.5 (2)				
Gauteng									
Bapsfonteir	, Bapsfontein	Dierehos	pitaal						
Beef: 1									
Free State									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Winburg, W	inburg Dierek	liniek							
Beef: 2									