# 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

# November 2019

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

These reports include data from individual practices

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

#### The following practices and laboratories (110) submitted reports during November 2019:

#### Mpumalanga (13)

Balfour - Dr. Lous van Jaarsveld

Bethal - Dr. Hardus Pieters

Grootvlei – Dr. Neels van Wyk

Karino – Dr. Silke Pfitzer

Lydenburg – Dr. Marietjie Malan

Lydenburg – Drs. Trümpelmann and Steyn

Malalane - Drs. Van Sittert and Van Sittert

Middelburg – Drs. Erasmus and Bernitz

Middelburg – Dr. Neil Fourie

Nelspruit – Dr. André Beytel

Karino – Dr. Silke Pfitzer

Standerton – Dr. Kobie Kroon

Volksrust - Dr. Johan Blaauw

#### Gauteng (6)

Bronkhorstspruit – Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal – Dr. Hentie Engelbrecht

Muldersdrift – Drs. Speedy and Enslin

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

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

University of Pretoria - Dr. Emily Mitchell

Vanderbijlpark – Dr. Kobus Kok

#### Limpopo (3)

Modimolle - Drs. Huber, Bredell and Barnard

Mokopane (Potgietersrus)- Dr. Alwyn Venter

Vaalwater – Dr. Hampie van Staden

#### North West (9)

Brits - Dr. Boshoff and Coertze

Christiana – Dr. Pieter Nel

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

Van den Berg, Van der Walt and Geral

Leeudoringstad - Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie-Krüger-Rall

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

Schweizer-Reneke - Dr. Pieter venter

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster –Drs. Benadé and Van der Merwe

#### Free State (21)

Bloemfontein - Dr. Stephan Wessels

Bultfontein - Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel

Ficksburg - Dr. Woody Kotzé

Harrismith – Drs. Slabber and Reynolds

Hoopstad – Dr. Kobus Pretorius

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

Memel – Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Reitz - Dr. Murray Smith

Senekal – Dr. Jan Blignaut

Philippolis – Dr. Stephan van Niekerk

Smithfield – Dr. Nienke van Hasselt

Viljoenskroon – Dr. Johan Kahts

Villiers - Dr. D'Wall Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Vrede - Dr. Rudolph Fourie

Wesselsbron – Dr. Johan Jacobs

Zastron – Drs. Troskie and Strauss

#### KwaZulu-Natal (14)

Bergville - Dr. Jubie Muller

Bergville - Dr. Ariena Shepherd

Camperdown – Dr. Anthony van Tonder

Dundee - Drs. Marais and Fynn

Eshowe, Mtunzini, Mandeni - Dr. Craig Pryke

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

Kokstad – Drs. Clowes, Shrives and Lees

Mooi River – Drs. Still, Edmunds and Fowler

Mtubatuba – Dr. Trevor Viljoen

Newcastle – Dr. Barry Rafferty

Pietermaritzburg – Drs. Kretzmann

Pongola - Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid - Drs. Theron and Theron

#### Eastern Cape (11)

Adelaide - Dr. Steve Cockroft

Alexandria - Dr. Charlene Boy

Alexandria - Dr. Johan Olivier

Aliwal North - Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Graaff- Reinet - Dr. Roland Larson

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

Steynsburg – Dr. Johan van Rooyen

Stutterheim – Dr Dave Watermann

Uitenhage - Drs. Mulder and Krüger

Witelshos - Dr. Elmien Kotze

#### Western Cape (21)

Beaufort West - Dr. Jaco Pienaar

Caledon - Drs. Louw and Viljoen

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

Elsenburg – Dr. Annelie Cloete

George - Drs. Strydom, Truter and Pettifer

Heidelberg – Dr. Albert van Zyl

Malmesbury - Dr. Otto Kriek

Malmesbury – Dr. Andries Lesch

Malmesbury – Dr. Markus Fourie

Malmesbury – Drs. Heyns and Zolner

Malmesbury - Dr. N.J. Heyns

Moorreesburg – Drs. Kotzé and Sheridan

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn - Dr. Adriaan Olivier

Piketberg – Dr. André van der Merwe

Plettenberg Bay - Dr. André Reitz

Stellenbosch - Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg - Dr. Izak Rust

Wellington - Drs. Van Zyl and Louw

#### Northern Cape (5)

Calvinia - Dr. Bertus Nel

De Aar – Dr. Donald Anderson

Kathu - Dr. Jan Vorster

Kuruman – Dr. Gerhard van der Westhuizen

Postmasburg – Dr. Boeta van der Merwe

Upington - Drs. Vorster and Visser

#### Feedlots (1)

Drs. Morris and Du Preez

#### Laboratory reports (6)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Sophette Gers - Pathcare, Cape Town

Dr. Mark Chimes - Dairy Standards, George

Amanda McKenzie – Vryburg Veterinary Laboratory

# **BIOSECURITY**

Biosecurity should not be just a word but should be an action. All of us (producer organizations, farmers and their employees, politicians, veterinarians, co-op personnel, representatives, auctioneers, agricultural writers and inhabitants of the Republic of South Africa) should be protecting our national herd becoming infected with organisms which could harm them and the people consuming products of animal origin.

We have been talking and writing, participating in TV and radio programmes, farmer's days and meetings on brucellosis, foot and mouth disease, Rift Valley fever, trichomonosis, Asiatic red water, cryptosporidiosis, *E. coli*, snotsiekte, rabies, fear of East Coast fever, sheep scab, ram's disease, listeriosis, tuberculosis, African swine fever, bird flu to name a few important diseases that we were confronted with during the last year or two. Stock theft and farm murders are on the increase. Water sources are polluted. Welfare issues were problematic.

Farmers had been hit by export restrictions, falling of meat prices and production losses – when will we ever learn to protect our investments with all our might!

We are not doing what we should! Identifying our animals, controlling movement, vaccinating our animals and demanding vendor declarations when buying animals- Buyer beware!

As was recently experienced, an auction could be the most dangerous place to buy animals if biosecurity measures are not heeded. All animals should be branded with a registered brand mark and or tattoo, health certificates in place and seller's home address (not post box number, should be available. Take note that foot and mouth disease, bovine brucellosis, tuberculosis, Johne's disease, trichomonosis, vibriosis, sheep scab (to name a few diseases) and parasites resistant to certain antiparasiticides are herd and flock diseases! Contact your veterinarian to assess your risk bringing in animals onto your farming unit. As an additional precaution quarantine animals for at least 28 days.

All is not doom and gloom – many farmers, although in the minority, are doing the correct thing. Following a closed herd policy, identifying their animals, testing their animals for brucellosis, movement control, animals that are bought and showed are quarantined before introducing them into the herd. Joint action by government and private sector during disease outbreaks through the National Animal Health Forum proved to be successful.

Our main goal now, should be to get a Livestock Identification and Traceability System (LITS) in place. This will enable us to establish certain disease free compartments and help to contain an outbreak within a short time period.

In unity lies our strenghth – join your producer organization!!

#### The current Foot and Mouth Disease situation in South Africa

12 December 2019

The NAHF with other stakeholders has compiled a list of frequently asked questions on FMD at present in the RSA.

We are attempting to answer as many questions as possible and have made a list of the most FAQ's over the past two weeks to assist the farming community to understand the current situation.

These questions should clear up a number of issues; any further questions can be sent to md@nahf.co.za

#### PART A: GENERAL QUESTIONS ABOUT THE GOVERNMENT GAZETTE NOTICE 42883

http://www.redmeatsa.co.za/wp-content/uploads/2019/12/Goverment-Gazette-Notice-No.42883 BANNING-OF-AUCTIONS.pdf

#### 1. Is the gazetted notice applicable to the whole country, or only certain areas or provinces?

The notice is applicable to the whole country. The media release of 14 November 2019 mentions only four provinces, but the Government Gazette notice of 4 December 2019 includes the whole of the Republic.

The prohibition is specifically targeted at those areas/premises where cloven hooved animals from two or more sources are gathered or brought together for further distribution to two or more places within a period shorter than 28 days.

#### 2. Is there a movement ban on animals?

There is no ban on the movement of animals in general, although it is advisable that movements should be restricted and discouraged as far as possible. The Gazette Notice does not prohibit the movement of animals. It prohibits the gathering of cloven-hoofed animals, where there are two or more places of origin, and where the intention is to move the animals to two or more destinations, within a time period shorter than 28 days.

#### 3. Are there any restrictions on the movement of animals from one farm to another?

The movement of animals between properties falls outside the scope of this Gazette Notice. The requirements that were applicable prior to the issuing of this notice are still applicable. There is no requirement for a government veterinary movement permit to be issued in terms of this Gazette.

If movements must take place, it is advised that a health declaration for movement is used, which requires veterinary inspection of the animals to be moved to ascertain that they are not showing clinical signs of Foot and Mouth Disease. This assists the seller and buyer of animals to limit potential spread of disease and subsequent liabilities.

https://www.mpo.co.za/hoe-lyk-n-bees-wat-bek-en-klouseer-het/

#### 4. Is the prohibition only applicable to auctions, or also to shows?

The prohibition is applicable to any activity where animals are gathered from two or more places of origin, and will be distributed to two or more places of destination, within a period shorter than 28 days. This will include shows in most cases.

#### 5. How long will the prohibition remain in place?

It is not possible to estimate on how long the prohibition will remain in place, but the intention is to make this period as short as possible. The purpose of the prohibition is to prevent further spread of Foot and Mouth Disease in the period when the extent of the outbreak is not yet known. Once no new cases (suspect or confirmed) have been reported for a 28 day period, the Director will re-consider the prohibition.

#### 6. If someone contravenes this gazette notice, must they be prosecuted?

The purpose of this prohibition is to assist with limiting the spread of Foot and Mouth Disease during the current outbreak and prosecution of clients for contravention is not the main focus. Any contravention of this Gazette Notice or the Animal Diseases Act, 1984 (Act No 35 of 1984) may however lead to charging and prosecution of the offender. Civil and criminal liability charges may be laid between private parties that are affected by such contraventions.

7. If an auction is placed under quarantine in terms of this notice, and 28 days have passed, can the auction go ahead once quarantine is lifted?

An auction facility that has been placed under quarantine must comply with the conditions as stipulated in the quarantine notice that has been served. In some cases this may be testing, for example if animals were received from potentially affected areas. Once the quarantine has been lifted, the animals can be distributed.

#### 8. How will live sales in the informal trade be regulated?

The emphasis must be on self-regulation and buyers must be made aware that they must only buy safe animals. Sellers of infected animals open themselves up to prosecution and civil lawsuits, should they cause the spread of FMD.

9. The gazette mentions on point 3 (3) "in the format as prescribed by the director". Where is the format?

There is no single format for the whole country, since the type of records to be kept may differ with the different farming systems. As a basic standard, the individual identification of animals, dates of arrival onto and movement off the property, details of origin and details of destination will be required. The Provincial Director Veterinary Services may evaluate the records of the client and prescribe additional information to be kept, if necessary to ensure that the records are auditable for the purpose of this gazette.

10. Is the Gazette notice correctly scanned in, since there are so many blank pages?

The Gazette notice consists of: 1. Definitions 2. Objective of control measure 3. (1), (2) and (3) Prohibition on the live auction of cloven hoofed animals in certain areas.

There is a front page (page 1), a contents page (page 3 at the top only), and the two pages containing the information of the notice (pages 4 and 5). Pages 2, 6, 7 and 8 are blank.

#### PART B: SPECIFIC SCENARIOS

1. If a client is willing to keep all animals isolated at the auction pens for 28 days, can the auction then go ahead after the 28 days?

Yes, provided that:

- The state veterinarian is notified and is in agreement to supervise the entire process.
- The client must be able to prove, through auditable records, that all animals on the premises have been there for 28 days (not only the animals to be auctioned).

- No other animals have been added to the property during this period.
- There must be no clinical signs of Foot and Mouth Disease on the premises.

If these isolated animals show any signs of Foot and Mouth Disease, the auction premises will become a suspect location, must be placed under precautionary quarantine and testing of animals will commence. The animals will not be allowed to move off the quarantine auction facility until quarantine has been lifted, in accordance with the procedures for suspect and/or positive locations.

#### 2. Is transport of animals allowed from farm to abattoir or from a feedlot to an abattoir?

Movement of animals from a farm or a feedlot directly to an abattoir is allowed, as the abattoir is an end-point destination from where the animals will not be distributed. Take note that it is illegal to move animals out of an abattoir facility based on the Meat Safety Act, 2000 (Act No. 40 of 2000).

3. If the client is willing to keep all animals isolated on the farm of origin for 28 days, can they then be sent to an auction to be sold?

The client may apply for exemption from the Gazette Notice to send these animals to an auction. This request for exemption will have to be supported and recommended by the Director(s) of Veterinary Services of the Province(s) involved.

4. Can an auction proceed if a single farmer's livestock is auctioned off, with no external animals added, but with multiple buyers?

Yes, this is allowed since the animals will come from a single origin. The single origin farm must also comply with the requirements of the Gazette notice.

The seller must declare and be able to prove, through auditable records, that no new animals were introduced onto the farm of origin for 28 days prior to movement to the auction. No other animals may be added to the auction property during the period when the seller's animals are there.

#### 5. Are on-farm auctions allowed?

Yes, provided that:

- The state veterinarian is notified and is in agreement to supervise the entire process. The client must be able to prove, through auditable records, that all animals on the premises have been there for 28 days (not only the animals to be auctioned)
- No other animals have been added to the property during this period
- There must be no clinical signs of Foot and Mouth Disease on the premises
- 6. Where the location is a feedlot or other farm where the animals are kept until they are slaughter ready (either within 28 days or more), what requirements must be complied with?

Animals may be gathered from different locations to a feedlot or another farm pre-slaughter, if they will move from that feedlot or farm to one location only, which can only be the abattoir. If there is a possibility that the animals may be distributed from the farm or feedlot to several other locations (ie not

to an abattoir), then they must remain on the farm or feedlot for at least 28 days, according to the conditions of Scenario B1 above.

7. Sometimes feedlots select heifers to sell to other farmers, so there is a mix of animals at the feedlot and not all go for slaughter. How will this practise be affected by the prohibition?

Feedlots that sell animals to other farms will be breaking the law unless all animals in the feedlot originate from one source, or if all animals in the feedlot have been on the farm for 28 days, according to the conditions of Scenario B1 above.

http://nahf.co.za/wp-content/uploads/FMD-Basic-Biosecurity-Guidelines-2019-11-26-Ver-4.pdf

http://nahf.co.za/wp-content/uploads/JOINT-MEDIA-STATEMENT-OF-THE-DEPARTMENT-OF-AGRICULTURE-LAND-REFORM-AND-RURAL-DEVELOPMENT-AND-THE-NATIONAL-ANIMAL-HEALTH-FORUM-ON-FOOT-AND-MOUTH-DISEASE-UPDATE-.pdf

#### FOOT AND MOUTH DISEASE UPDATE

# JOINT STATEMENT OF THE DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT AND THE NATIONAL ANIMAL HEALTH FORUM ON FOOT AND MOUTH DISEASE UPDATE – 20 November 2019

http://nahf.co.za/wp-content/uploads/JOINT-MEDIA-STATEMENT-OF-THE-DEPARTMENT-OF-AGRICULTURE-LAND-REFORM-AND-RURAL-DEVELOPMENT-AND-THE-NATIONAL-ANIMAL-HEALTH-FORUM-ON-FOOT-AND-MOUTH-DISEASE-UPDATE-.pdf

The Department of Agriculture, Land Reform and Rural Development advises farmers and livestock owners that all parties transacting with cloven-hoofed animals should observe the utmost caution. All gatherings of animals from more than one source (incl. auctions, livestock shows, and speculative transactions) are discouraged until the exact situation is known.

#### **Background**

On 1 November 2019, veterinary services were alerted to clinical signs suspicious for Foot-andMouth disease (FMD) in a herd of cattle on a farm in the Molemole local municipality of the Capricorn district, Limpopo.

Trace back and trace forward of animals from the positively confirmed herd is underway to determine the extent of the outbreak. So far, at least 5 properties have been confirmed.

A Technical Task Team has been established by the Honourable Minister, consisting of DAFF Veterinary officials, Provincial Veterinary officials as well as industry commodity groups led by the National Animal Health Forum and experts in the specific disease.

FMD is a highly contagious viral disease that affects cattle, pigs (domestic and wild), sheep, goats, and other cloven-hoofed animals. Signs of disease in animals may include depressed animals, sores in the mouth of animals causing reluctance to eat, and lameness.

FMD may show no clinical signs for up to 14–21 days when animals are infected. For this reason, it is very difficult to ascertain if the animals are infected by visual inspection alone.

Trace back and trace forward thus far linked infected animals to an auction facility in Limpopo Province and it has been confirmed that at least five commercial facilities have been affected as a result. More properties that purchased animals at the same auction could be affected.

All known infected properties have been placed under quarantine, suspect properties under precautionary quarantine; plans to resolve the situation are being implemented.

#### Movement of cloven hooved livestock

1.If at all possible, live cloven hooved animals should not be moved until the current situation has been stabilised. Only transport animals that are healthy and destined for immediate slaughter.

2.All buyers of animals should ensure that the animals purchased are free of disease, especially free of FMD. Any transaction of cloven-hoofed animals should be accompanied with a veterinary health certificate issued by a veterinarian

3.It should be noted that FMD virus can remain viable in the environment for a few days. Thus, any transport vehicle should be thoroughly cleaned and disinfected away from any animals before animals are loaded.

Vehicles used to transport animals to abattoirs should thus be thoroughly cleaned and disinfected before leaving the abattoir premises.

Please note that in terms of Section 11 of the Animal Diseases Act, 1984 it is the responsibility of "any owner or manager of land on which there are animals ...take,... all reasonable steps to prevent the infection of the animals with any animal disease, or parasite and the spreading thereof from the relevant land or animals...".

Anyone spreading FMD through the movement of animals may thus be held civilly and or criminally liable for such offence.

#### **Biosecurity**

Any person having had contact with possibly infected animals should take all precautions necessary to change clothing and footwear before handling other cloven-hoofed animals.

Anybody that is unsure of the above advice should please contact their local state or private veterinarian for biosecurity guidance and/or assistance to develop a biosecurity protocol for their farm.

Adherence to the above advice will assist DALRRD, Veterinary Services Limpopo, and farmers to resolve the situation. It is vital that all stakeholders act reasonably and responsibly and according to the law at all time.

All animal owners are encouraged to stay well informed.

Visit: www.nahf.co.za for the FMD-Basic Biosecurity Guidelines.

The disease does not affect human beings and it is safe to consume products of cloven-hoofed animals, such as meat and milk.

#### **Alternative options**

Electronic auctions or one-on-one transactions of cloven-hoofed animals (including wildlife) could be considered between producers if all biosecurity protocols, quarantine measures, veterinary health certificates, individual animal identification, as well as traceability back to source are implemented before any transaction takes place.

For more media inquiries contact: Reggie Ngcobo - Media Liaison Officer Mobile: 082 883 2458 The technical spokesperson on FMD is Dr Botlhe Modisane Mobile: 063 693 0330

### **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!!!!!!!

# Dr. Michel Bradfield (michael@agribsa.co.za)

At a Livestock industry workshop held in March this year in Pretoria (see Landbouweekblad 12 May 2017), attended by a large representative group of all the major industry role players in the value chain (including commercial producers, the large Feedlots and retail), industry role players spoke about the importance of the Livestock industry taking ownership of its own destiny. They also spoke about how the industry should fund itself without continuously looking at the Department of Agriculture and Fisheries (DAFF) to provide support or handouts. However, speak to most of the older livestock producers and not all producers will be convinced as they nostalgically remember the past when a large percentage of their inputs were subsidized by government. Amongst these same producers the perception also exists that overseas producers are heavily subsidised by their respective governments and that our government needs to do the same.

Whilst some European union countries do heavily subsidize their livestock industries, this is certainly not the case for many developed countries in the world. Table 1 that shows that the international level of subsidy given to producers is generally declining and that South African producers in some instances

obtain higher subsidies than that given to New Zealand producers for example, and not much less than that given to Australian producers. It is also unfair to compare ourselves to European producers who have very few sheep and cows. Most development efforts in Europe focus heavily on chicken and pork production because livestock production is often seen as an industry worth subsiding, often to keep people on the land and to also boost the very important tourist industry.

The New Zealand government has drastically reduced subsidies and expect producers to stand on their own feet and pay for their own industry development costs. It was initially difficult, but farmers have become more efficient and have learnt how to live without subsidies. In fact, their industry now refuses to allow themselves to become depended on government and would turn down subsidies even if offered (see link at the end of the article). Many countries are now following the New Zealand model and cutting subsidies. The ideal model for many countries is to have industry providing the bulk of the money for funding research and development of their own industry though a private company, usually a section 21 type company, and to then convince the government to match some of the research and development funds for major industry related projects in the form of matching grants.

#### The South African Livestock Levy

The South African livestock industry is currently funded by a very small industry levy (Table 2) of 0.05% of the total turnover. This compared to the 0.6% as an industry average. The current levy for Pork production for example is 0.5% of total turnover. Some in the industry have suggested that to equate to pork at least, the industry spend should be closer to R50 per animal in the beef sector, and an equitable amount in the Smallstock sector. The current levy in beef equates to a once off fee of about R10.00 per animal.

The USA beef checkoff has a compulsory levy that collects one USA dollar (R13.80) every time a transaction occurs in the value chain. A further one dollar is collected for exported carcasses or product. The MLA in Australia collects five Australian dollars i.e. R50.00 for each beef animal. The total amount collected is \$AUD 155.7 million i.e. R1.5 billion per annum. The South African equivalent is between R30-R50 million, a paltry amount in comparison. For both the MLA and American programs the money is spent on Research and Development, Marketing and Animal Health and opening new markets internationally. It is a truism that industry does not easily accept a statuary levy unless the benefits are clearly understood, demonstrable progress can be shown and is achieved, and results in significant changes to the bottom line for each producer. In previous articles I have shown for example that the USA is in a similar position as South Africa in that it produces just enough meat for its population. It however export about 10% of the high value cuts to premium markets and imports an equivalent amount of low value cuts for mostly the hamburger market. Some of their levy funding will thus be used to develop these export markets. Though the spend on levy by producers is often hotly debated by some producers in all countries, the common-sense position prevails that the industry would stagnate and become uncompetitive if no levee was paid, or if the levy amount was reduced.

Prof Michael Roberts, a world expert on business strategy, lists investing in Research and Development (R&D) as the number one step that industries should consider for growth. Poorly run industries or businesses usually spend little on research and development to their long-term detriment.

#### **Government involvement**

As mentioned previously, the industry in South Africa often looks at DAFF to fund any major development requirements, for example, national animal health initiative's, development of traceability systems, opening of export markets or research and development related to animal production. A recent report has shown that a serious outbreak of foot and mouth disease (F&M) for example, would cost the industry over 6 Billion rand. The same report showed that it is highly advisable to put measures in place and to be proactive to protect our industry against a F&M outbreak rather than waiting for a catastrophe to happen. A major disease outbreak alone is reason enough to get our industry to have serious introspection of how it could and should funding itself, without necessary looking at the government for funding.

My interaction with DAFF has shown that they are committed to work with industry and to form public private partnerships (PPP) where needed. They have certainly assisted us in a Beef Genomics program where they assisted industry with a matching grant of about 1:4 i.e. R30 million over three years for an in kind, industry contribution of R120 million. It is highly likely that this program will again be funded but by international norms it is still a drop in the ocean and hardly enough to make a significant difference by international standards. The reality is that to get money from government, as an industry you have to be prepared to provide the bulk of the funding.

Another reality in South Africa is that DAFF is overstretched and overburdened and that they also accommodate approximately 60 000 smallholder and emerging producers who own 40% of the sheep and cattle in the county and who were poorly serviced by DAFF before 1994. To rely of DAFF to fund any of the major developments in the Livestock industry is unrealistic and will simply not happen.

#### Importance of strong institutions and umbrella bodies

According to the World bank, the single biggest difference between success and failure in an industry is the strength of the institutions or umbrella bodies that supports the industry. Failed states will hardly ever have good institutions or representative umbrella bodies and have very little interaction between industry and government. Collectively they will hardly ever work towards a common goal. On the other hand, most livestock industries in the developed world will have a clear vision and strategy that has the buy in of the whole value chain. The vision and implementation plan must have clear guidelines, timelines and a clear funding model of how the plan should be implemented so that a collective vision will be achieved. To avoid duplication of projects all actors in an industry, including government must buy into such a masterplan so that any duplications of projects can be avoided. The South African livestock industry has good institutions such as the Red Meat Industry Forum (RMIF) that includes the national Emerging Red Meat producer's organization (NERPO) and Red Meat Producers organization (RPO). However, as shown above, the level of funding in South Africa for Research and Development of the industry is almost insignificant compared to our international competitors and serious introspection

is needed by all actors to ascertain a desired future position for the industry. My colleagues who are head of departments in animal production at the University of the Free State and Pretoria, openly admit that they cannot attract the youngest and brightest students into the field of animal production, especially in the field of Animal Breeding and Genetics. This discipline requires a high level of investment (and realises high levels of returns), but the results are not immediately apparent to industry. This is also true for much of the development initiatives mentioned above. The benefits of an animal traceability system for example, is not immediately apparent, but ask any country that has implemented animal traceability systems (such as Namibia), and most producers understand the benefits. The importance of funding large animal health initiative's, should be self-evident, especially in South Africa with its porous borders and continuous risks of disease outbreaks.

#### Summary and implications for the industry

The South African livestock industry is doing well after the sudden increase in prices, largely because of the drought in 2015, shortage of product, and to a small extent, some exports. However, these increases will be eroded in the next decade as the herds and flock recover to their normal levels and we again find ourselves competing internationally with countries such as South America, the USA and Australia in the international market. As an industry we are extremely susceptible to serious disease outbreaks and a serious Foot and Mouth outbreak for example could devastate the industry. Many of our producers and industry bodies look at government for funding major development initiatives such as national animal health, development of traceability systems, opening of export markets and research and development related to animal production. The reality is that the bulk of funding for the development of the industry by our international competitors comes from the producers themselves, and this trend is set to continue. Despite its political challenges, where you would expect the livestock industry in South Africa to properly fund its own industry, the size of the South African Statuary Levy can hardly be compared to our international competitors. If we as an industry are serious about getting maximum value from our sector, we should seriously consider taking ownership of our industry with proper funding. For example Is fifty or a hundred rand per animal, with a carcass value of R15 000, really too large a price to pay?

<sup>\*\*</sup>By not investing in our future we are slowly putting ourselves into a position where we will not be able to compete against our international peers \*\*

<sup>\*\*</sup>The International norm for investment in industry is 1.5 % of the turnover. The legislated Red Meat Levee in South Africa is 0.1 % of turnover and is of the lowest in the developed world.\*\*

\*\* Many of the animal production departments at South Africa's top universities openly admit that they cannot attract the youngest and brightest students into the field of animal production, especially in the animal genetics field\*\*

Table 1: Agricultural support payed by government to individual producers as a subsidy in USD Dollar. It shows that the subsidies have markedly decreased to producers for most countries. It also shows the disparity in subsidy between the European countries and countries such as South Africa and New Zealand. [Editor, use the countries highlighted in yellow]

	* PSECSE indicator	Producer Support E	stimate (PSE)	▼			
	→ Unit	USD mn ▼					
	u Time	2010	2011	2012	2013	2014	2015
	→ı Time	<b>∆</b> ₹	<b>∆</b> ♥	<b>∆</b> ₹	<b>▲</b> ▼	Δ∀	<b>∆</b> ₹
→ı Country							
<mark>Australia</mark>		1 293.36	1 576.49	1 007.60	1 085.69	721.51	588.80
Canada		7 069.26	7 417.94	7 519.67	5 352.70	5 043.25	4 289.26
Chile		287.33	356.12	402.34	420.32	417.32	400.21
Iceland		124.21	139.73	151.28	146.52	191.97	196.24
Israel		931.62	1 022.13	671.66	542.55	832.34	1 032.69
Japan		56 262.97	60 352.54	65 452.28	50 223.07	43 484.87	33 509.48
Korea		16 967.88	21 007.20	20 412.82	21 483.72	21 774.73	20 117.93
Mexico		6 371.33	6 782.52	6 737.65	6 665.51	6 626.31	5 163.55
New Zealand		99.77	162.48	144.97	129.56	133.36	101.25
Norway		3 618.47	4 016.32	4 278.60	3 918.65	3 948.60	3 252.50
Switzerland		5 792.56	6 801.29	6 691.12	6 300.80	7 313.64	7 737.55
Turkey		22 021.68	19 437.33	17 137.66	15 208.04	14 681.40	11 568.57
United States		30 774.35	32 683.81	35 993.12	29 020.14	43 571.84	38 784.56
European Union (28 countries)		104 901.85	108 988.43	110 542.61	120 825.51	108 213.78	89 986.99
OECD - Total		249 378.90	262 840.53	270 316.26	252 918.49	247 678.80	211 982.25
Brazil		9 283.76	11 473.51	6 872.98	6 193.20	7 280.35	4 092.12
China (People's Republic of)		135 996.90	112 929.08	219 170.10	263 843.94	275 581.25	307 394.82
Colombia		4 426.81	4 843.88	6 151.77	5 888.89	4 795.67	3 484.26
Indonesia		23 950.63	19 119.89	23 176.10	27 153.71	31 871.48	35 969.07
Kazakhstan		966.94	1 795.07	2 124.33	2 173.43	1 489.14	1 988.10
Russia		16 192.70	15 070.97	14 137.21	14 470.78	15 248.03	
South Africa		338.47	549.74	712.53	569.78	499.61	697.51
Ukraine		2 035.11	-745.30	559.65	-1 395.82	-3 095.76	-1 823.59
Viet Nam		3 097.10	2 754.17	2 696.91	946.19	-532.35	205.97

Table 2: National Marketing Council Report on Statuary levys implemented. The Table shows that the Red Meat Sector has the lowest statuary levy of all the Agricultural sectors in South Africa. [Editor, this is Table 2]

TABLE 5: TOTAL AMOUNT OF STATUTORY LEVIES COLLECTED

Product	Levy income	Total value of product at the first point of sale *	Levy income as a percentage of the value of the product	Levy collection rate
	R	R	%	%
Citrus (exported)	54 199 844	11 241 576 908	0.5 %	100
Cotton lint	1 933 555	168 000 000	1.2 %	100
Dairy products	46 585 458	9 754 000 000	0.5 %	113
Deciduous Fruit	94 130 207	5 402 611 877	1.7 %	97
Dried fruit	5 816 018	569 626 735	1.0 %	98
Fynbos (proteas)	367 495	59 818 787	0.6 %	98
Lucerne	2 443 252	268 898 000	0.9 %	75
Macadamias	11 551 652	276 000 000	4.2 %	98
Olives	871 754	66 043 180	1.3 %	56
Pecan nuts	1 571 913	651 000 000	0.2 %	97
Pork	24 737 146	4 772 306 000	0.5 %	106
Potatoes	38 203 447	7 100 000 000	0.5 %	98
Red meat	34 782 190	29 900 000 000	0.1 %	98
Sorghum	2 074 028	345 422 500	0.6 %	100
Table grapes	21 502 612	5 000 000 000	0.4 %	100
Wine	87 210 168	4 727 000 000	1.8 %	100
Winter cereals	61 861 825	7 663 128 367	0.8 %	104
TOTAL	489 842 564	87 965 432 354	0.6 %	96

<sup>\*</sup>as provided by levy administrators

#### Sources

 $\frac{http://dailysignal.com/2016/09/22/what-happened-when-new-zealand-got-rid-of-government-subsidies-for-farmers/$ 

http://www.huffingtonpost.com/mark-ross/farm-subsidies-new-zealand b 1680259.htmlBy

https://www.mla.com.au/about-mla/about-your-levy/grassfed-cattle/

http://www.beefusa.org/

http://www.beefresearch.org/

https://www.beefboard.org/producer/CBBFinalUnderstandingBrochure.pdf

## **Summary of disease report for November 2019**

110 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 13; Gauteng (G) 6; Limpopo (L) 3; Northwest (NW) 19; Free State (FS) 21; KwaZulu-Natal (KZN) 14; Eastern Cape (EC) 11; Western Cape (WC) 21: Northern Cape (NC) 5; Feedlots (FL) 1 and Laboratories (Lab) 6)

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

Disease or condition	Number of provinces reporting
Dystocia (difficult calving)	8
Protein deficiency	8
Energy deficiency	8
E. coli	8
Lameness	8
Coccidiosis	7
Selenium deficiency	7
Abscesses	7
Diarrhoea	7
Mastitis	7

Downer animal	
Wireworm	6
Tapeworms	6
Cryptosporidisis	6
African red water	6
Asiatic red water	6
Anaplasmosis	6
Heartwater	6
Pulpy kidney	6
Ringworm	6
Acidosiss	6
Retained afterbirth	6
Vaginal prolaps	6
Roundworms	5
Blue ticks	5
Bont-legged ticks	5
Red-legged ticks	5
Nuisance flies	5
Blackquarter	5
Botulism	5
Orf	5
Warts	5
Abortions	5
Bloat	5

Blue udder	5
Joint ill	5
Metritis	5
Uterine prolaps	5
Lightning	5
Drought	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.

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

**VENDOR DECLARATION BOVINE BRUCELLOSIS** 

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

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

Note: Vaccination does not mean freedom from Bovine Brucellosis as cattle can still be carriers

Please attach the most recent *Brucella* blood test certificate

Owner or authorised representative:
•
Signature:

#### \*\* \* Biosecurity

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

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

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

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

### OVINE JOHNE'S DISEASE VENDOR DECLARATION

#### ON THE SALE OF SHEEP

(Updated Draft May 2015)

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













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

Audit date:		
Authorised perso	n:	

		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	
Resistant roundworms		х			Х		Х	х	
Wireworm	Х	х			Х	х	Х	х	
Brown stomach-worm						х		х	
Long-necked 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		х	
Conical fluke					Х	х	Х		
Cysticercosis (measles)		х				х		х	x

Schistosomiasis (bilharzia)								
Coccidiosis	х		х	х	X	x	х	х
Cryptosporidiosis	х	х	х	х	х		х	

Welcoming rain has fallen in some areas, this will soon result in parasite outbreaks. Young and pregnant animals are the most vulnerable! Use the five point check in sheep to keep on top of what is happening in the flock. Check each animal slaughtered or that died for nodular worm infestation-whitish nodules can be seen in the small intestine. For further detail contact your local veterinarian. Treatment is but one of many actions in the holistic management approach to control internal parasites.



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

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

#### www.wormx.info

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

#### **Prevention of Cryptosporidiosis**

Since there is no vaccine or registered treatment for *Cryptosporidium*, prevention is the best control method. Animals with a well developed immune system will generally easily overcome *Cryptosporidium* thus this must be the main aim in controlling *Cryptosporidium*.

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

Ensure no nutritional deficiencies especially vitamin A and Selenium

Excellent bio-security

Ensure clean pathogen free water sources Hygiene training of personnel Consult your veterinarian

# **External parasites**

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

External parasites	MP	G	L	NW	FS	KZN	EC	wc	NC
Blue ticks	х			х	х	x		х	
Resistant blue ticks						x		х	
Heartwater ticks	х			х		x	х		
Brown ear-ticks	х				Х	x		х	
Bont-legged ticks	х			х	х	x		х	
Red-legged ticks	х			х	Х	х		х	
Paralysis ticks					Х				
Tampans									
Biting lice	х			х	Х				
Sucking lice									х
Fleas									
Itch mites									
Sheep scab					X	х			
Mange mites	х			х	Х				
Nuisance flies	х				Х	х	Х	х	
Midges	х					х			
Mosquitoes						х			
Blowflies	х				х	х		х	
Screw-worm	х								

Gedoelstia (uitpeuloogsiekte)					
Nasal bot	х				

Tick infestations are on the increase after rains fell in the summer rain-fall areas. Blue ticks (African and Asiatic blue ticks) are able to transmit red water, anaplasmosis and lumpy skin disease.

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

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

Discuss your tick control programme with your veterinarian, especially in areas where summer rains fell. Below is a list of diseases transmitted by ticks.

#### Tick borne diseases

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

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

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

Numerous mortalities were reported!

Heartwater outbreaks were reported from 6 provinces.

The keyword is vaccinate your animals! Contact your veterinarian.

Anaplasmosis outbreaks were reported in 8 provinces.

#### **Tick toxicosis**

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

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

Insect transmittable diseases will increase after summer rains . Have you vaccinated your animals?

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

New cases of **trichomonosis** are reported every month and this disease is out of control. **Make sure to** buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 7 provinces and vibriosis fom 4 provinces.

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

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

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

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

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

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

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

#### **Bacterial diseases**

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Anthrax									
Blackquarter	х			х	х	х	х		
Botulism	х			х	х			х	х
Pulpy kidney	х	х		х	х		х	х	
Lamb dysentery							х		
Swelled head					х				
Red gut (cattle)	х				х	х			
Blood gut (sheep)					х				
Tetanus					х		х		

Salmonellosis		х		х	х			
Klebsiella								
Bovine brucellosis	х	х	х	Х				
Brucella melitensis (goats)								
Ovine brucellosis (Ram's disease)				x			х	
Bovine tuberculosis								
Johne's								
Leptospirosis								
Listeriosis							х	
Pseudomonas								
Pasteurella multocida								
Pasteurellosis (see pneumonia -lungs)				x	х			
Fusibacterium necrophorum							х	
Septicaemia					х	х		
E. coli	х	х	х	x	х	х	х	х
Klebsiella								
Coxiella								
Mycoplasma								
Enzootic abortion								
Lumpy wool (Dermatophilus)								
Bovine dermatophilosis (Senkobo disease)								
Uterine gangrene		х					х	х
Wooden tongue								
Lumpy jaw								

Multiclostridial vaccines should be used if blackquarter outbreaks still occur when only using a vaccine containing *Clostridium chauvoei*. Remember to give a booster vaccine when using an inactivate vaccine for the first time. Read the packet insert!! Study the table above and determine the risk for animals on your farm.

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

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

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

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

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 laten carrier of brucellosis may only test positive after calving!!!!!

PREVENTION IS BETTER AND CHEAPER THAN CURE!

Do not save yourself bankrupt!

#### **Viral diseases**

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

Viral diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
									1

	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			

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

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

Keep cattle and wildebeest well separated especially when wildebeest are under stress to prevent snotsiekte outbreaks! There is also a sheep associated form of the disease. Discuss vaccination programmes and biosecurity measures with your veterinarian.

## **Fungal diseases**

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

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

## **Protozoal diseases**

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

## **Toxicities**

The following toxicities were reported by practices in the provinces:

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

Chrusosoma siliata (hittorhos)						
Chrysocoma ciliata (bitterbos)						
Solanum incanum (maldronksiekte)						
Gomphocarpus (Asclepias) fruticosus						
(milkweed)						
Heliotropium (potato weed)						
Bracken fern						
January bush (Gnidia polycephalatus)						
Chinkerinchee	х				х	
Ceylons rose						
Datura						
Sarcostemme viminale (melktou, caustic						
bush)						
Malva parviflora (kiesieblaar)						
Bitou						
Cotula nigellifolia (Stagger weed,						
stootsiektebossie)						
Eucalyptus (bloekom) bark						
Kikuyu						
Ryegrass						
Lush pastures (Dikkop)						
Ganskweek						
Paspalum staggers						
Phalaris aquaticum (Phalaris staggers)						
Photosensitivity (Turknael, <i>Erodium</i> moschatum)						
Photosensitivity (Stellenbosch)						
		 		l	l	

Photsensitivity		х					
Lusern							
Mycotoxicosis						х	
Apergillus							
Aflatoxin							
Diplodiosis							
Lupins							
Harpuisbos							
Syringa berries							
Acorn							
Cycad							
Kraalbos, Geelbos (Galenia africana)							
Radish							
Carrot poisoning							
Onion poisoning							
Bracken fern							
Pollen beetle ( Astylus atromaculatus)							
Water contamination							
Nitrate							
Tannins							
Urea	х			х	х		х
Salt							
Wet carcase syndrome							
Snake bite			Х				

Moth cocoons (impaction)					
Blue green algae					
Copper					
Selenium					
Zinc					
Zinc sulphite					
Fluoride					
Lead					
Paraquat					
Phosamine					
Aldicarb					
Organophosphate					
Zinc phosphide					
Xanthium			х		
Pyrethroid					
Amitraz					
Levamisole					
Ivermectin					
Moxidectin					
Oxytetracycline					
Tilmicosin					
Bromoxynil nitrate					
lonophor					
Monensin					

Нуро					
Diazinon					
Glyphosate					
Chicken litter					

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

Do have activated charcoal on the farm as the antidote for tulip poisoning! (Outbreaks reported in 7 provinces) 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.

## **Nutritional deficiencies**

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

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

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

Drought conditions are still present in many areas!

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

## Members of RuVASA's hearts go out to our colleagues and their clients in drought stricken areas!

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 drought conditions.

## Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	wc	NC
Abortions	х			х	х	х		х	
Stillbirths					х	х			х
Abscesses	х	x		х	х	х	х	х	
Intestinal ulcers									
Bladder stones –urolithiasis				х	х				
Blindness					х	Х	х	х	

Bloat	x	X	Х		х		х	
Blue udder		X		Х	х	х	х	
Diarrhoea	х	х	Х	х	х	х	х	
Epididymitis				х				
Eye cancer				X	х		x	
Eye infections	х	X	Х	X	х	x	x	
Vestibular syndrome (middle ear infection)								
Skin lymphoma								
Joint ill	х		Х	Х	х	х		
Cystitis								
Lameness/foot problems	х	X	Х	х	х		х	
Lung infection	х	X	Х	х	х	х	х	х
Mastitis	х	X	Х	х	х	х	х	
Navel ill	х			х	х		х	
Umbilical hernia								
Red gut (sheep, torsion of gut)						х		
Rectal prolaps								
Rumen stasis		X						
Abdominal impaction								
Abdominal hernia								
Floppy kid synrome								
Swelsiekte								
Traumatic reticulo-pericarditis		x	х					
Trauma				Х			х	
	1	1			1	l	1	

Teeth wear								
Plastic bags (ingestion)								
Downer	х	х		х	х	х	х	х
Anaphylactic shock								
Vestibular syndrome (middle ear infection)								
Hernia								
Deformaties								

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	х	x	
Displaced abomasum					х	х		х	
Ketosis (Domsiekte)		х			х	х		х	
Milk fever					Х			х	

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

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

## **Reproductive diseases**

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

Endometritis				х	х		X	
Metritis			х	х	х	х	х	
Hydrops								
Poor conception	х				х	х	х	х
Retained afterbirth	х	х	Х	х	х		х	
Sheath prolaps				х	х			
Uterine prolaps	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						х			
Frozen to death									
Heat stress	х				х	х		х	
Lightning	х	х		х	х	х			
Electrocution									
Drought	х				х	Х	х		х

## Other conditions

	MP	G	L	NW	FS	KZN	EC	wc	NC
Dermatospraxis									
Genetic disorders						х		х	
Wet carcasses									х
Drug residues (milk, meat, liver, kidney etc)									
Preditors	х	х			х				
Theft/Sabotation	х				х	х			
Trauma (fractures etc)		х							
Trauma (veldfires)									

In the CODE OF CONDUCT of the RPO the following standard operating procedures are documented. The local veterinarian should be your partner to help you achieve the necessary standards. http://www.rpo.co.za/BestPractices/English.aspx

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

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

### 2. PURCHASES FROM SALES OR SPECULATORS

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

- \* brand marks
- \* parasite infestation

#### 3. TRANSPORT TO THE FARM

Use only reputable transporters
Has the truck been cleaned and disinfected?
Truck to follow the shortest uninterrupted route
Truck to take the shortest route to the handling facilities
Do not allow the truck personnel to get in contact with the farm herd

#### 4. ARRIVAL ON THE FARM

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

Isolate them from the farm herd and shared facilities for at least 21 days (quarantine)
Retest for diseases of concern if needed, before mixing with the rest of the herd
Process new arrivals within 24 hrs after arrival (unique ID tag brand, dip, dose, vaccinate)
Inspect regularly

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

Ensure bales of hay are sourced from areas that are not bordering scheduled areas Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

#### 6. VISITORS

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

## 7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

## **GENERAL AND REPRODUCTION MANAGEMENT**

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

#### HERD HEALTH AND BIO-SECURITY

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

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

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

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

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

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

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

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

## Practices that had nothing to report

Cape Town - Dr. Sophette Gers

Camperdon – Dr. Anthony van Tonder

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

Malalane – Drs. Van Sittert and Van Sittert

Mokopane – Dr. Alwyn Venter

Nelspruit – Dr. Silke Pfitzer

Plettenberg Bay – Dr. André Reitz

Stellenbosch - Dr. Annelie Cloete

Tulbagh - Dr. Dirk Trichardt

Volksrust - Dr. Johan Blaauw

Vanderbylpark- Dr. Kobus Kok Wellington – Dr. William van Zyl

## **Ostriches**

## **Western Cape**

## Oudtshoorn

	-
Bont-legged ticks	3 - Drought stricken Karoo farmers take on ostrich rearing – severe tick infestations and challenges
Nuisance flies	2 - In ostriches we see insect associated pitting on the skins/ hides when we tan. Supperficial epidermal erosisons
Midges	2 - In ostriches we see insect associated pitting on the skins/ hides when we tan. Supperficial epidermal erosions
Entero typhlocolitis necrotic	3 - New season chicks – from day 3-14. Stress trigger like heat. Acute mortalities, early treatment effective, if poor response with primary antibiotic course you are in for a rough ride. Rapid resistance, constant diarrhoea and poor doers.
<i>Mycoplasma</i> - Airsacculitis	2 – Cold/ immune compromise and dust – micoplasma, going over into secondary infections <i>E. coli</i> etc.
Cryptosporidiosis	2 - Chicks soil ingestion on wet spots/ stress displaced behaviour, cold weather keeping indoors for longer than expected.
Diarrhoea	2 - Displaced behaviour of return growers – sand ingestion – mechanical diarrhoeas
Stock theft Feather theft	3 - Rural communities are struggling – theft for food. BUT also sindicate targeting feathers on live birds and even killing them due to high price and value of feathers currrentlly. Associated feed refusal/ trauma/ muscle damage etc.

## **Equines**

Gauteng Muldersdrift

### Babesiosis - 2

## Limpopo

## Modimolle

Wireworm - 2 Sable with severe infestation

Wireworm – Buffalo herd with moderate infestation (accidental finding)

## Game

## Limpopo

### Modimolle

Wireworm – 2 Sable with severe infestation

Wireworm – Buffalo herd with moderate infestation (accidental finding)

## **Northern Cape**

## Kathu

Energy deficiency - 1

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

There were 27 cases of *E. coli* [ seven were ESBL positive] from calves, three with *Cryptosporidium*; 5 from lambs [one was ESBL positive] and one of them was with *Cryptosporidium*, and three from pigs. Extended Spectrum Beta Lactamase [ESBL] isolates are resistant to all penicillins and cephalosporins, and usually to many other antibiotics as well.

The virulence tests for four of the *E. coli* isolates were positive. One bovine *E. coli* was positive for eaeA, which results in the loss of microvilli in the gut, leading to watery chronic diarrhoea, with a decrease in nutrient absorption.

One lamb *E. coli* was CNF 1 positive, which is a necrotizing toxin, leading to enteritis and septicaemia.

One pig *E. coli* isolate was positive for both stx2e and F18, both of which are markers for oedema disease. Another pig isolate was positive for StaP and Stb which are heat stable toxins affecting fluid absorption and sodium secretion in the intestine. Vaccines prepared from strains of *E. coli* which harbour virulence factors are usually protective.

Other causes of bovine enteritis were *Salmonella* Dublin and *S*. Typhimurium in calves and *Clostridium perfringens* type A. *Salmonella* Dublin also caused septicaemia in two cases, one of which was an ESBL strain.

Respiratory tract disease yielded *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* in cattle.

Clostridial myositis cases were positive for *C. novyi* [4] and *C. chauvoei* [5] in cattle, and *C. novyi* in a pig. One of the cattle cases was negative for *Clostridium*, but showed Gram positive cocci on one of the submitted smears. A pure growth of *Staphylococcus pseudintermedius* was isolated from the muscle of that case.

Intractable cases of bovine mastitis yielded *Klebsiella pneumoniae* in one case, and an environmental *Mycobacterium* in another. The high producing Jersey cow with the *Mycobacterium* was kept under unhygienic conditions, and a subsequent milk sample from the same quarter yielded *Mycobacterium* in pure growth again.

A bull with pus in his semen yielded *Trueperella pyogenes*. *Trueperella pyogenes* was also isolated from an abscess in a goat, and from pigs showing septicaemia.

Blue udder in sheep yielded Mannheimia haemolytica.

Pyoderma in a goat yielded a methicillin resistant S. pseudintermedius and Pseudomonas aeruginosa.

# Monthly report for November 2019 from Dr R D Last (BVSc; M.Med.Vet(Path); MRCVS)

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

LIVESTOCK DISEASE SURVEILANCE						
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION			
BOVINE	MALIGNANT OEDEMA	1	VOLKSRUST, MPUMALANGA			
BOVINE	PASTEURELLOSIS MANNHEIMA HEMOLYTICA	1	VOLKSRUST, MPUMALANGA			
BOVINE, CALVES	SALMONELLA DUBLIN PARATYPHOID	1	HUMANSDORP, E.CAPE			
BOVINE ADULTS	CESTRUM POISONING	1	KEI RIVER, E. CAPE			
BOVINE CALVES	ESBL MULTI-DRUG RESISTANT E. COLI	1	CLOCOLAN, FREE STATE			
BOVINE, NEONATE	IN-UTERO ANAPLASMOSIS	1	BETHLEHEM, FREE STATE			

WILDLIFE DISEASE SURVEILANCE						
WILDLIFE SPECIES	DISEASE AGENT	NO. CASES	LOCATION			
Loggerhead Turtle, Adult	Blood fluke (Spirorchiid)	1	St Lucia, KZN			
White rhino calf	Cachexia	1	Mtuba, KZN			

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

Condition	Comments and Specie
Intestinal roundworms	0 3
Liver fluke worms	В 3
Parafilaria	В 3
Cysticercosis	В 3
Cryptosporidiosis	B 3, O 2
Blue ticks	В 3
Red-legged ticks	B 3, O 3
Bont-legged ticks	В 3
Blowflies	B 1, O 3
Heartwater	В 3
Anaplasmosis	B 1
Red gut	В 3
Blood gut	0 3
Pulpy kidney	0 3
E. coli	B 2, O 2
Ringworm	В 3
IBR	В 3
Warts	В 3
Urea poisoning	B 2
Gifblaar	В 3
Lantana poisoning	B 1
Ergot poisoning	В 3
Protein deficiency	B 3, O 3

Energy deficiency	В 3, О 3
Phosphate deficiency	В 3, О 3
Calcium deficiency	0 3
Vitamin A deficiency	В 3, О 3
Vitamin B 1 deficiency	В 3, О 3
Copper deficiency	В 3
Selenium deficiency	B 3, O 3
Acidosis	B 3, O 3
Blue udder	0 3
Joint ill	В 3
Lameness	B 3, O 1
Lungs	B 3 , O 3
Diarrhoea	В 3, О 3
Eyes	В 3, О 3
Abscesses	B 3,O 3
Abortion	B 2
Dystocia	В 3
Heat stroke	В 3
Trauma	В 3, О 3
Traumatic pericarditis	B 1
Pericarditis	В 3
Deaths reported by farmers:	
Cattle: anaplasmosis, pneumonia , acidosis, gifblaar	

Sheep: acidosis, pneumonia, protein,	
energy malnutrition (PEM)	

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

Condition	Comments and Specie
Cryptosporidiosis	B 1, O 1
Coccidiosis	01
Red gut	G 1
Pulpy kidney	C 1
E. coli	B1, O1, G 1
Septic bacterial infection	B 2
Bacterial enteritis	B 1, O 1, P 1
Abscesses	G 1
BMC (snotsiekte)	B 2
Lung infection - bacterial	B 2, C 1
Rhabdomyolysis (muscle condition)	E 1
Equine sarcoid	E 2
Acidosis	B 1, G 1
Protein/Energy malnutrition	G 1
Copper toxicity	0 2



#### Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

18<sup>th</sup> Dec, 2019 DAFF Import/Export Policy Unit Subdirectorate

# Monthly report: Faculty of Veterinary Science cases Wildlife cases sent to referring veterinarians between 25th Oct and 18th Dec 2019

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

PM Date	Species	Final	Histo No
14-Oct-19	Cheetah	Gastritis monitoring; peripheral giant cell granuloma	S3321-19
15-Oct-19	Lion	Endometrial hyperplasia	S3338-19
15-Oct-19	Lion	Endometrial hyperplasia, adenomyosis	S3339-19
18-Oct-19	Nile Crocodile	Mycoplasma polyarthritis	S3365-19
21-Oct-19	Cheetah	Nasal and meningeal cryptococcosis	S3389-19
23-Oct-19	Reedbuck	Traumatic injury	S3463-19
08-Nov-19	African Buffalo	Traumatic reticulopericarditis	S3609-19
11-Dec-19	Black crested Sulawezi macaque	Colitis and aspiration pneumonia	S3972-19

Kind regards,

Mila Mitchell

Prof. Emily Mitchell

## DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

Table of Contents	
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Eye worm ( <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
<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
<u>Venereal Diseases</u>	<u>Trichomonosis</u> , <u>Vibriosis</u>
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Red qut (cattle), Blood qut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Septicaemia, E. coli, Intrauterine Gangrene, Fusibacterium necrophorum, Other, Pasteurellosis
Protozoal diseases (other)	Coccidiosis, Cryptosporidium
Fungal diseases	Ringworm
<u>Viral Diseases (other)</u>	BMC, Rabies, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), Enzootic Bovine Leucosis (EBL), Orf, Warts, Rota virus, Corona Virus
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, Cestrum, Facial eczema, Geeldikkop/Dikoor, Gifblaar, Lantana, Prussic acid poisoning, Seneciosis, Tulip Poisoning, Mycotoxicosis, Other
<u>Poisonings</u>	<u>Urea Poisoning</u> , <u>Snake Bite</u> , <u>Chemical products</u>
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, Vitamin B1 deficiency
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bload, Blood gut (sheep and goat), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint

		Ill, Lameness/Foot Problems, Lung infection, Mastitis in general, Navel Ill, Red qut (Sheep), Trauma, Downer, Other, Wet carcases Yellow carcase at abattoir							
Metabolic D	<u>Diseases</u>		Acidosis, D	isplaced	aboması	um, <u>Ketosis</u> , <u>l</u>	Milk Fever		
Reproductiv	ve diseases					<u>ndometritis, l</u> Jterus prolaps			
Climatical (	<u>Cause</u>		Cold expos	ure, <u>Dro</u>	ught, <u>He</u>	at stress, Lig	<u>htning</u>		
Non specifi	<u>c diseases</u>			<b>Preditors</b>		ned, <u>Genetic</u> tion/Theft, <u>Tr</u>	auma, <u>Trau</u>	umatic Retici	-olu
Internal	Parasites								
Roundwo	orms in gene	eral							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)				2.3 (7)	1.6 (9)	2.4 (5)	2.3 (6)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef						1.5 (4)		3.0 (1)	
Sheep	2.0 (2)				2.3 (7)	1.5 (2)	2.3 (3)		
Goat						1.7 (3)	2.5 (2)	1.0(1)	
Mpumalang	<b>a</b>					1.7 (3)	2.3 (2)	1.0 (1)	
	a four Diereklin	iek							
Sheep: 1	10a1 21010kiiii								
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Sheep: 3									
Free State									
	in, Dr Stephan	n Wessels							
Sheep: 3	Greylingsrust	h Diarasmu	a alelea maa w						
Sheep: 1	Greyningsrust	L Dielespi	eekkaillei						
	ocolan Dierek	liniek							
Sheep: 1									
	loopstad Diere	ekliniek							
Sheep: 3									
	Ladybrand Die	erekliniek							
Sheep: 3									
	on, Viljoenskro	oon Diere	kliniek						
Sheep: 3	gepoort Dierel	kliniek Va	nnootekan						
Sheep: 2	gepoort pierei	Milliek ve	mootskap						
oncep. Z									

Kwazulu-Na									
	ugela Vet Clini	С							
Beef: 1, Shee	p: 1, Goat: 1								
Estcourt, Es	tcourt Vet Clir	nic							
Sheep: 2, Go	at: 2								
Mooi River,	<b>Mooirivier Vet</b>	Clinic							
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2, Goat									
	zburg, Veterin	arv House	Hospital						
Beef: 1		u. ,							
Eastern Cap	e								
_	et, Camdeboo	Veterina	v Clinic						
Sheep: 2, Go		veceimai	y Cillic						
	et, Graaff Reir	at Vatori	nary Clinic	•					
Sheep: 3, Go		iet veteri	nary Ciline	•					
	Nitelsbos Vete	rinary Co	ncultina D	oome					
Sheep: 2	WITEISDOS VELE	a iliai y CO	nsurung K	CUIIIS					
Western Ca	ne								
		aanital							
	orge Animal H	ospitai							
Beef: 3, Shee		D!	-1::-1-						
	(WC), Heidelb	erg Diere	KIINIEK						
Sheep: 2									
	y, Malmesbury	Dierenos	pitaai						
Sheep: 2									
	ırg, Moorreesb	urg Diere	kliniek						
Sheep: 3									
	h, Stellenbosc	h Animal	Hospital						
Goat: 1									
Resistant	Round Wo	rms							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			2.5 (4)		2.0 (2)	2.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Sheep		1.0(1)			2.5 (4)		2.0 (1)	2.5 (2)	
Goat							2.0 (1)		
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Bronknorsts									
Sheep: 1	, , , , , , , , , , , , , , , , , , ,								
Sheep: 1 Free State									
Sheep: 1 Free State Bloemfonte	in, Dr Stephan								
Sheep: 1 Free State Bloemfonte Sheep: 3	in, Dr Stephan	Wessels							
Sheep: 1 Free State Bloemfonte Sheep: 3 Hoopstad, F		Wessels							
Sheep: 1 Free State Bloemfonte Sheep: 3 Hoopstad, F Sheep: 3	in, Dr Stephan	Wessels ekliniek							

	land Dierehos	pitaal							
Sheep: 1									
Eastern Cap									
	et, Camdeboo	Veterinar	y Clinic						
Goat: 2									
	et, Graaff Reir	net Veteri	nary Clinic	1					
Sheep: 2									
Western Ca									
	orge Animal H	ospitai							
Sheep: 3	y, Malmesbury	Diorobos	nitaal						
Sheep: 2	y, Mailliesbui y	Dieleilos	pitaai						
Sheep. 2									
Wireworn	n								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
_	0.5 (0)	0.5 (0)	1.0.(1)		2.1	1.0.7	0.5.(0)	2.0.(2)	
Average	2.5 (2)	2.5 (2)	1.0 (1)		(10)	1.8 (5)	2.5 (2)	2.0 (3)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Sheep	2.5 (2)	3.0 (1)	1.0 (1)		2.1 (10)	2.0 (3)	3.0 (1)	2.0 (3)	
Goat 2.0 (1) 1.5 (2) 2.0 (1)									
Mpumalang	a								
•	nal Diereklinie	k							
Sheep: 2									
	Longtom Dier	ekliniek							
Sheep: 3									
Gauteng	spruit, Kerkstr	ant Dievel	diniak						
Sheep: 3, Go		aat Dierei	Kiiniek						
Limpopo	at. 2								
	Kranskop Dier	ekliniek							
Sheep: 1									
One flock									
Free State									
	ocolan Dierek	liniek							
Sheep: 1									
	Oosvrystaat Di	ere Produ	kte						
Sheep: 2	wantefact Div	.l.l:: - !-							
Sheep: 3	rankfort Diere	кипіек							
	loopstad Diere	kliniek							
Sheep: 3	ioopsidu Diele	CKIIIICK							
	Kroonstad Die	rehosnita	al						
Sheep: 2	Jonetha Die	. 51103p1ta	·-						
	Ladybrand Die	erekliniek							
Sheep: 3	•								
	land Dierehos	pitaal							
Sheep: 2									

Villiers, Wil	gepoort Dierel	diniek Ve	nnootskap	1					
Sheep: 2									
Vrede, Sauls	shoek Dierepr	aktyk							
Sheep: 2		-							
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	•								
Kwazulu-Na	ital								
Dundee, End	dumeni Herd h	nealth							
Sheep: 2, Go									
	tcourt Vet Clir	nic							
Sheep: 2, Go									
	zburg, Veterin	arv House	Hospital						
Sheep: 2	<b></b>								
Eastern Cap	e								
	et, Camdeboo	Veterinar	v Clinic						
Sheep: 3, Go			,						
Western Ca									
	orge Animal H	ospital							
Sheep: 3	ge Allinai III	- <b> </b>							
	(WC), Heidelb	era Dierel	kliniek						
Sheep: 1	(170), Heldelb	cig Diciel							
	, Malmesbury	Dierehos	nitaal						
Sheep: 2	y, Mailliesbui y	Dicicios	pitaai						
эпеер. 2									
Brown st	omach-wor	m							^
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 to	en and 3 =	more than :	10 cases
Beef						1.0(1)			
Sheep								2.0(1)	
Kwazulu-Na	ıtal								
	zburg, Veterin	ary House	Hospital						
Beef: 1	a.g/ Teleiiii	, 11Ju30	ospital						
Western Ca	ne								
	pe ,, Malmesbury	Dierehos	nitaal						
Sheep: 2	,, Plannesbury	210101103	p.wui						
	n ( <i>Thelazia</i> :	rhodesii	)						_
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 to	en and 3 =	more than :	10 cases

Beef					1.0 (1)				
	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Tape Wo	rms								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	2.0 (1)	l		2.4 (5)	1.0 (1)	1.0 (1)	3.0 (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 1	l0 cases
Beef	1.5 (2)				2.0 (1)				
Sheep	1.5 (2)				2.5 (4)	1.0 (1)		3.0 (1)	
Goat		2.0 (1)					1.0 (1)		
<b>Mpumalang</b>	а								
	four Diereklin	iek							
Beef: 1, Shee									
Standerton,									
Beef: 2, Shee	ep: 2								
Gauteng Bronkhorste	spruit, Kerkstr	aat Diorol	diniok						
Goat: 2	spiuit, keiksti	aat Dielei	VIIIIEK						
Free State									
	in, Dr Stephan	Wessels							
Sheep: 2									
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 2									
	Ladybrand Die	erekliniek							
Sheep: 3		D:	-1::-1-						
Sheep: 3	on, Viljoenskro	oon Dierei	KIINIEK						
•	gepoort Dierel	dinjek Ve	nnootskan						
Sheep: 2	gepoort Dierei	MIIIICK VC	шоосыкар						
Kwazulu-Na	atal								
Dundee, En	dumeni Herd h	nealth							
Sheep: 1									
Eastern Cap									
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Western Ca	pe orge Animal Ho	ocnital							
Sheep: 3	orge Ammai A	ospitai							
Parafilar	ia								^

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)		2.0 (2)			-
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	2.0(2)	2.0 (1)		3.0 (1)		2.0 (2)			
Mpumalang		2.0 (1)		2.0 (2)		2.0 (2)			
	Longtom Dier	ekliniek							
Beef: 2									
	lelspruit Anima	al Hospita	ı						
Beef: 2									
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
North West									
	a Dierekliniek								
Beef: 3									
Kwazulu-Na									
	Mtubatuba Ar	nımal Clin	iC						
Beef: 2									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
Liver fluk	(e								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)				3.0 (1)	1.5 (4)		2.7 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	l0 cases
Beef	2.5 (2)				3.0 (1)	1.5 (4)		3.0 (1)	
Dairy								3.0 (1)	
Sheep	2.0(1)							2.0 (1)	
Mpumalang	а								
Mpumalang Balfour, Bal	four Diereklin	iek							
Mpumalang Balfour, Bal Beef: 2, Shee	four Diereklin ep: 2								
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg,	four Diereklin								
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3	four Diereklin ep: 2								
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State	four Diereklin ep: 2 Longtom Dier	ekliniek							
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State Clocolan, Cl	four Diereklin ep: 2	ekliniek							
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State Clocolan, Cl Beef: 3	four Diereklin ep: 2 Longtom Dier ocolan Dierek	ekliniek							
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State Clocolan, Cl Beef: 3 Kwazulu-Na	four Diereklin ep: 2 Longtom Dier ocolan Dierek	ekliniek Iiniek							
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State Clocolan, Cl Beef: 3 Kwazulu-Na Bergville, Tu	four Diereklin ep: 2 Longtom Dier ocolan Dierek	ekliniek Iiniek							
Mpumalang Balfour, Bal Beef: 2, Shee Lydenburg, Beef: 3 Free State Clocolan, Cl Beef: 3 Kwazulu-Na Bergville, To Beef: 1	four Diereklin ep: 2 Longtom Dier ocolan Dierek	ekliniek liniek							

Beef: 1									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
Underberg,	<b>Underberg Ve</b>	terinary S	urgery						
Beef: 2									
Western Ca	pe								
	orge Animal H	ospital							
	/: 3, Sheep: 2								
Conical F									^
Conicari	iukes								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.8 (5)	1.0 (2)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (3)	1.0 (2)	1.0 (1)		
Sheep					1.5 (2)				
Free State									
Frankfort, F	rankfort Diere	kliniek							
Beef: 3									
Senekal, Se	nekal Dierekli	niek							
Beef: 1									
Villiers. Wil	gepoort Dierel	diniek Ve	nnootskan	)					
Beef: 2, Shee		AIIIIICIA VO	шооскар	<u></u>					
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	11, 11 033013010	ii Dici cikii	ilick						
Kwazulu-Na	tal								
	nan Mooirivier Vet	Clinic							
Beef: 1	MOOITIVIEL VE	Cillic							
	zburg Votorin	any Harras	Hoon!to!						
	zburg, Veterin	ary nouse	nospital						
Beef: 1									
Eastern Cap	e Uitenhage Die	roboon!t-	al .						
Beef: 1	опеннауе ые	еноѕріта	aı						
Cysticerc	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)				2.0 (1)		1.5 (2)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)		1.0 (1)	
Sheep		1.0(1)						2.0 (1)	2.0 (1)
		1.0 (1)						<b>2.</b> 0 (1)	2.0 (1)

Gauteng								
	spruit, Kerkstr	aat Dierekliniek	(					
Sheep: 1	. /							
Kwazulu-Na	atal							
Pietermarit	zburg, Veterin	ary House Hosp	ital					
Beef: 2								
<b>Western Ca</b>	ре							
George, Geo	orge Animal H	ospital						
Beef: 1, Shee	ep: 2							
<b>Northern Ca</b>								
	rg, Postmasbu	rg Dierekliniek						
Sheep: 2								
External	<b>Parasites</b>							
Blue ticks	S							^
PROVINCE	Mpumalanga	Gauteng Limpo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)		3.0 (1)	2.9 (9)	2.6 (11)		2.3 (7)	
Level of impore	ortance scale: 1	= one case, 2 = r	more than on		ut less than t	en and 3 =	more than	10 cases
Beef	2.3 (4)		3.0 (1)	2.8 (6)	2.8 (9)		2.3 (4)	
Dairy				3.0 (1)			2.5 (2)	
Sheep	1.0 (1)			3.0 (2)	2.0 (1)		2.0 (1)	
Goat					2.0 (1)			
Mpumalang	a							
	four Diereklin	iek						
Beef: 1, Shee								
	Longtom Dier	ekliniek						
Beef: 3								
Middelburg	, Middelburg I	Dierehospitaal						
Beef: 2								
Standerton,	Econovet							
Beef: 3								
North West		doorn Diarroldin	iok CD					
Beef: 3	кепеке, вите	doorn Diereklin	IEK SK					
Free State								
	ocolan Dierek	liniek						
Beef: 3	Joseph Dielek							
	Dosvrystaat Di	ere Produkte						
	y: 3, Sheep: 3							
	rankfort Diere	kliniek						
Beef: 3								
Hoopstad, F	loopstad Diere	ekliniek						

Beef: 3, Shee									
	on, Viljoenskro	on Dierel	kliniek						
Beef: 3									
Villiers, Wil	gepoort Dierek	diniek Ve	nnootskap	)					
Beef: 2									
Kwazulu-Na	ntal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Bergville, T	ugela Vet Clini	С							
Beef: 2, Shee	p: 2, Goat: 2								
Dundee, En	dumeni Herd h	ealth							
Beef: 3									
Eshowe, Es	howe Veterina	ry Hospita	al						
Beef: 3									
Mooi River,	<b>Mooirivier Vet</b>	Clinic							
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 3									
Pietermarit	zburg, Veterin	arv House	Hospital						
Beef: 3		,							
Underbera.	Underberg Ve	terinary S	urgerv						
Beef: 3	<u> </u>	, .	<b>.</b>						
	heid Privaat V	/eeartse							
Beef: 3	,								
Western Ca	ne								
	orge Animal Ho	nsnital							
Beef: 3, Dairy		оортсан							
	(WC), Heidelb	era Dierel	rliniek						
Beef: 2	(We), Heldelb	cig Dicici	XIIIICK						
	y, Groenkloof I	Diereklinia	≥k						
Beef: 2	, Groenkioor i	JICI CIXIIIII	y.x						
	y, Malmesbury	Dierehos	nitaal						
Beef: 2, Dairy		Dicicios	predai						
	ırg, Moorreesb	ura Diere	kliniek						
Sheep: 2	ing, Moonreesb	uig Diele	KIIIICK						
Resistant	t blue Ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
								-	-
Average						1.7 (3)		3.0 (2)	
Level of impo	ortance scale: 1	- one case	2 - more	than on	e case h	ut less than t	en and 3 –	more than	10 cases
reported	ortance scale. 1	- One case	s, 2 – IIIOI e	ulan on	e case b	ut less triair t	en and 5 –	more than	to cases
Beef						1.7 (3)		3.0 (1)	
Dairy								3.0 (1)	
Kwazulu-Na	ital								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
<b>Pietermarit</b>	zburg, Veterin	ary House	Hospital						
Beef: 2									

Level of importar reported  Beef Sheep	(Bont) ti numalanga 3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	Gauteng  = one case		North West 2.0 (1) e than one 2.0 (1)	e case b	Kwazulu- Natal 1.9 (13) ut less than to		Western Cape	Northern Cape
Heartwater  PROVINCE Mp  Average  Level of importar reported  Beef  Sheep  Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, M	3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	Gauteng  = one case		2.0 (1) e than one	<b>State</b> e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =	Cape	Cape
Average  Level of importar reported  Beef Sheep Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	Gauteng  = one case		2.0 (1) e than one	<b>State</b> e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =	Cape	Cape
Average  Level of importar reported  Beef Sheep Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	Gauteng  = one case		2.0 (1) e than one	<b>State</b> e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =	Cape	Cape
Average  Level of importar reported  Beef Sheep Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	= one case		2.0 (1) e than one	<b>State</b> e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =	Cape	Cape
Average  Level of importar reported  Beef Sheep Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Midd	3.0 (5) nce scale: 1 3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	= one case		2.0 (1) e than one	<b>State</b> e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =	Cape	Cape
Level of importar reported  Beef Sheep Goat Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (3) 3.0 (1) 3.0 (1) mgtom Dier 3, Goat: 3		e, 2 = more	2.0 (1)	e case b	1.9 (13) ut less than to	1.0 (2) en and 3 =		
Level of importar reported  Beef Sheep Goat Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (3) 3.0 (1) 3.0 (1) mgtom Dier 3, Goat: 3		e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Reef Sheep Goat Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (3) 3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3		e, 2 = more					more than 1	LO cases
Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	ekliniek		2.0 (1)		20(7)			
Goat  Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (1) 3.0 (1) ngtom Dier 3, Goat: 3	ekliniek				2.0(7)	1.0(1)		
Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3.0 (1)  ngtom Dier 3, Goat: 3	ekliniek				1.3 (3)			
Mpumalanga Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	ngtom Dier 3, Goat: 3	ekliniek				2.3 (3)	1.0 (1)		
Lydenburg, Lon Beef: 3, Sheep: 3 Middelburg, Mi	3, Goat: 3	ekliniek				2.3 (3)	1.0 (1)		
Beef: 3, Sheep: 3 Middelburg, Mi	3, Goat: 3	ekiiniek							
Middelburg , Mi									
	iuucibuig i	Diorobosn	itaal						
DECI. 3		Dierenosp	ıtaaı						
Nelspruit, Nelsp	nruit Anim	al Hocnita	ı						
Beef: 3	pruit Amm	ai nospita	<u> </u>						
North West									
Schweizer-Ren	aka Buffal	ldoorn Die	rokliniok (	CD					
Beef: 2	eke, buile	iuooiii Die	i ekiiiiek .	JK .					
Kwazulu-Natal									
Bergville, Bergv	villa Vatari	nary Clinia	^						
Beef: 3	ville veteri	mary Cillin	<u> </u>						
Bergville, Tugel	la Vet Clini	ic							
Beef: 1, Sheep: 1									
Dundee, Endum		nealth							
Beef: 2	ilelii Helu I	icaitii							
Eshowe, Eshow	e Veterina	ry Hosnita	 al						
Sheep: 1	re veterina	ı y 1103pıu	41						
Estcourt, Estcou	urt Vet Clir	nic							
Beef: 1, Goat: 2	art vet cili								
Mtubatuba, Mtu	uhatuha Ai	nimal Clini	ic						
Beef: 3, Goat: 3			. •						
Pietermaritzbui	ra. Veterin	arv House	Hospital						
Beef: 2	. <del>3</del> / + CtC: !!!	,ouse	···ospitai						
Pongola, Pongo	ola Animal	Clinic							
Beef: 2, Sheep: 2									
Eastern Cape	,								
Alexandria, Alex	xandria Pla	atteland S	preekkam	ner					
Beef: 1			F						
Uitenhage, Uite	enhage Die	rehospita	al						
Goat: 1	. 5								
Brown ear-t									^
PROVINCE Mp	icks								

Average	3.0 (3)				2.0 (2)	2.0 (1)		2.3 (3)	
Level of imp reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	3.0 (2)				2.0 (2)	2.0 (1)		2.5 (2)	
Dairy								2.0 (1)	
Sheep	3.0 (1)								
Mpumalang	` '								
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 3, Shee	•								
Standerton	, Econovet								
Beef: 3									
Free State	mel Veterinary	Clinic							
Beef: 2	mei veterinary	Clinic							
	gepoort Dierel	diniek Ve	nnootskar	<b>.</b>					
Beef: 2	gepoort Dierei	AIIIIICK VC	шооскар	2					
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Western Ca	•								
	orge Animal H	ospital							
Beef: 3		D:							
Beef: 2, Dair	y, Malmesbury	Dierenos	рітааі						
Bont-leg	ged ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)			2.6 (5)	2.7 (12)	2.7 (3)		2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.3 (3)			2.8 (4)	2.6 (9)	2.7 (3)			
Sheep	2.0 (2)			2.0 (1)	3.0 (3)			2.0 (1)	
Mpumalang									
	lfour Diereklin	iek							
Beef: 1, Shee		aldintel							
	Longtom Dier	ekiiniek							
Beef: 3, Shee									
Middelhura	Middelhura I	Diarahaca	itaal						
	, Middelburg I	Dierehosp	itaal						
Middelburg Beef: 3 North West		Dierehosp	itaal						

Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 2, Sheep: 2									
	Reneke, Buffel	doorn Die	rekliniek (	SR					
Beef: 3	Keneke, Burrer	uoom bio	J. CKIIIII CK	JIX					
	o, Ventersdorp	Diereklir	niek						
Beef: 3	o, venterouorp	DICI CKIII							
Free State									
	in, Dr Stephan	Wessels							
Beef: 3	, Di Geophan	110000.0							
Bultfontein	Greylingsrust	Dierespr	eekkamer						
Beef: 2									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 3									
Frankfort, F	rankfort Diere	kliniek							
Beef: 3									
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 3, Shee	-								
	Kroonstad Die	rehospita	al						
Beef: 3, Shee		•							
	nel Veterinary	Clinic							
Beef: 2									
Philippolis,	Rowelsfontein	veearts 9	Spreekkan	ner					
Sheep: 3									
Senekal, Se	nekal Dierekli	niek							
Beef: 1									
Viljoenskro	on, Viljoenskro	on Diere	kliniek						
Beef: 3									
Kwazulu-Na	ıtal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd h	ealth							
Beef: 3									
	heid Privaat <b>\</b>	eeartse/							
Beef: 3									
Western Ca									
	ırg, Moorreesb	urg Diere	kliniek						
Sheep: 2									
Red-legg	ed ticks								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (6)			3.0 (2)	2.3 (7)	3.0 (2)		2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
					2.3				

Sheep	2.0 (2)				2.3 (3)					
Goat	1.0(1)					•				
Mpumalanga										
Balfour, Bal	four Diereklini	iek								
Beef: 1, Shee	p: 1, Goat: 1									
	<b>Longtom Dier</b>	ekliniek								
Beef: 3, Shee	•									
	, Middelburg [	Dierehosp	itaal							
Beef: 2										
North West			_							
	Christiana Die	rehospita	al							
Beef: 3										
Schweizer-i Beef: 3	Reneke, Buffel	aoorn Die	erekiiniek :	SK						
Free State										
Clocolan, Cl	ocolan Dierek	liniek								
Beef: 2										
	loopstad Diere	ekliniek								
Beef: 3, Shee	•									
	Kroonstad Die	rehospita	al							
Beef: 2, Shee										
•	nel Veterinary	Clinic								
Beef: 2, Shee	•									
Kwazulu-Na			•							
	Underberg Ve	terinary S	urgery							
Beef: 3	shaid Driveat	/oonutoo								
Beef: 3	heid Privaat \	reeai tse								
Western Ca	ne									
	y, Groenkloof I	Diereklini	ek							
Beef: 2	,, 0.00									
Paralysis	ticks								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
							-			
Average					2.0 (2)					
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Sheep					2.0 (2)					
Free State										
Frankfort, F	rankfort Diere	kliniek								
Sheep: 3										
	gepoort Dierel	diniek Ve	nnootskap	)						
Sheep: 1										
Biting lice	e (red lice)								^	

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (1)			3.0 (1)	1.5 (2)						
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef	2.0 (1)			3.0 (1)	2.0 (1)						
Sheep					1.0 (1)						
Mpumalang	a										
Standerton,	Econovet										
Beef: 2											
North West	Vortered	Dispolati	iok								
<b>Ventersdorp</b> Beef: 3	o, Ventersdorp	Dierekiin	пек								
Free State											
	Kroonstad Die	rehospita	al								
Beef: 2	501.5444 516	. 5.1.55 p. cu									
	nekal Diereklii	niek									
Sheep: 1											
Sheep: 1  Sucking I	ice (blue lic	e)							_		
Sucking I	ice (blue lic Mpumalanga		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Sucking I			Limpopo								
Sucking li PROVINCE Average		Gauteng		West	State	Natal	Cape	Cape	<b>Cape</b> 2.0 (1)		
PROVINCE  Average  Level of imporeported	Mpumalanga	Gauteng		West	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE Average Level of imported Goat	<b>Mpumalanga</b> ortance scale: 1	Gauteng		West	State	Natal	Cape	Cape	<b>Cape</b> 2.0 (1)		
PROVINCE Average Level of imported Goat Northern Ca	Mpumalanga ortance scale: 1	Gauteng  = one case	e, 2 = more	West	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca  Postmasbur	<b>Mpumalanga</b> ortance scale: 1	Gauteng  = one case	e, 2 = more	West	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca Postmasbur  Goat: 2	Mpumalanga  ortance scale: 1  upe ug, Postmasbu	Gauteng  = one case	e, 2 = more	West	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca	Mpumalanga  ortance scale: 1  upe ug, Postmasbu	Gauteng  = one case	e, 2 = more	West	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca Postmasbur Goat: 2  Scab mite	Mpumalanga  ortance scale: 1  upe ug, Postmasbu	Gauteng  = one case  rg Dierekl	e, 2 = more	West than one	State	Natal	Cape	Cape	2.0 (1) 10 cases		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca Postmasbur Goat: 2  Scab mite	Mpumalanga ortance scale: 1 ope og, Postmasbur	Gauteng  = one case  rg Dierekl	e, 2 = more	West than one	State e case b	Natal  ut less than to	Cape en and 3 =	more than  Western	2.0 (1)  10 cases  2.0 (1)  Northern		
PROVINCE  Average  Level of imporeported  Goat  Northern Ca Postmasbur Goat: 2  Scab mite  PROVINCE  Average	Mpumalanga ortance scale: 1 ope og, Postmasbur	Gauteng  = one case  rg Dierekl  Gauteng	e, 2 = more	west than one	Free State  2.0 (2)	wit less than to the less than the less t	en and 3 =  Eastern Cape	more than  Western Cape	2.0 (1) 10 cases 2.0 (1)  Northern Cape		

Free State											
Frankfort, Frankfort Dierekliniek											
Sheep: 3											
Smithfield, Freestate Smithfield SV											
	Sheep: 1 One farm, 639 sheep treated										
Kwazulu-Na											
	G.Veterinary S	ervices									
Sheep: 1	•										
One flock											
Mange Mites											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (2)			3.0 (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	1.0 (1)			3.0 (1)	3.0 (1)						
Sheep	1.0(1)				3.0 (1)						
Mpumalang											
	four Diereklin	iek									
Beef: 1, Shee	ep: 1										
North West	Christiana Dia	voboonito									
Beef: 3	Christiana Die	renospita	aı								
Sarcoptes											
Free State											
Frankfort, F	rankfort Diere	kliniek									
Sheep: 3											
	loopstad Diere	ekliniek									
Beef: 3											
Nuisance	Flies								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (3)				2.7 (7)	2.7 (7)	3.0 (1)	2.3 (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 :	10 cases		
Beef	2.5 (2)				2.8 (4)	2.8 (5)	3.0 (1)	2.0 (2)			
Dairy						3.0 (1)		3.0 (2)			
									_		

Sheep	2.0 (1)				2.7 (3)			2.0 (2)	
Goat						2.0(1)			
Mpumalang	а								
	four Diereklin	iek							
Beef: 2, Shee									
	lelspruit Anima	al Hospita							
Beef: 3									
Free State									
Frankfort, F	rankfort Diere	kliniek							
Beef: 3, Shee									
	loopstad Dier	ekliniek							
Beef: 3, Shee	•								
	nel Veterinary	Clinic							
Beef: 3									
	nekal Dierekli	niek							
Beef: 2, Shee	•								
Kwazulu-Na		namı Clini	_						
Beef: 3	ergville Veteri	nary Clinic	С						
	dumeni Herd l	nealth							
Beef: 3	aumem nera i	icaidi							
	Mtubatuba Aı	nimal Clin	ic						
Beef: 2, Goat									
	 zburg, Veterin	arv House	Hospital						
Beef: 3	<b></b>	,							
Underberg,	Underberg Ve	terinary S	urgery						
Beef: 3, Dair									
Eastern Cap									
Alexandria,	Alexandria Pla	atteland S	preekkam	er					
Beef: 3									
<b>Western Ca</b>	pe								
	y, Malmesbury	Dierehos	pitaal						
	y: 3, Sheep: 3								
	, Oudtshoorn	Diereklini	ek						
Beef: 1, Shee									
	n, Swellendam	Dierehos	pitaal						
Dairy: 3									
Blowflies									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				3.0 (1)	2.0 (3)		1.7 (6)	
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 1	.0 cases
Beef	1.0(1)							1.5 (2)	
Dairy						2.0 (1)		2.0 (1)	
Dan y						2.0 (1)		2.0 (1)	

Injumalanga Isalfour, Balfour Dierekliniek eef: 1 rankfort, Frankfort Dierekliniek heep: 3 Wazulu-Natal strourt, Estcourt Vet Clinic heep: 2 Western Cape leidelberg (WC), Heidelberg Dierekliniek heep: 2 Poutshoorn, Oudtshoorn Dierekliniek eef: 1, Sheep: 1  Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  Average 2.0 (1)  Injumalanga leispruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Mpumalanga Limpopo North State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Norther Cape Norther Cape  Norther Cape Norther Cape  Nor						3.0	2.0 (2)		1.7 (3)	
laffour, Balfour Dierekliniek eeef: 1 ree State rankfort, Frankfort Dierekliniek heep: 3 wazulu-Natal stcourt, Estcourt Vet Clinic heep: 2 linderberg, Underberg Veterinary Surgery laighigh: 2, Sheep: 2 Vestern Cape leidelberg (WC), Heidelberg Dierekliniek heep: 2 latinesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2 loudshoorn, Oudshoorn Dierekliniek eef: 1, Sheep: 1 Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo West State Natal  PROVINCE Mpumalanga Gauteng Limpopo  Average 2.0 (1)  Injumalanga leispruit, Nelspruit Animal Hospital eef: 2  PROVINCE Mpumalanga Gauteng Limpopo  Average 3.0 (1)  Injumalanga leispruit, Nelspruit Animal Hospital eef: 2  Vasaal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo  Average 3.0 (1)  Injumalanga leispruit, Nelspruit Animal Hospital eef: 2  Vasaal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo  Average 3.0 (1)  Injumalanga Velenburg, Longtom Dierekliniek heep: 3  Average 3.0 (1)  Injumalanga Velenburg, Longtom Dierekliniek heep: 3  Rees State	Sheep					(1)	2.0 (2)		1.7 (3)	
ree's tate rankfort, Frankfort Dierekliniek heep: 3 wazulu-Natal stcourt, Estcourt Vet Clinic heep: 2 Inderberg, Underberg Veterinary Surgery lairy: 2, Sheep: 2 Western Cape leidelberg (WC), Heidelberg Dierekliniek heep: 2 lailmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2 wattshoom, Oudsthoorn Dierekliniek heep: 3  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal  PROVINCE Mpumalanga Gauteng Limpopo North State Natal  PROVINCE Natal State Natal State Natal  PROVINCE Natal State Natal State Natal  PROVINCE Natal State Natal State Natal State Natal  PROVINCE Natal State Natal State Natal State Natal State Natal State Natal State										
ree State rankfort, Frankfort Dierekliniek heep: 3 wazulu-Natal skrourt, Estcourt Vet Clinic heep: 2 londerberg, Underberg Veterinary Surgery lainigr: 2, Sheep: 2 Vestern Cape ledielberg (WC), Heidelberg Dierekliniek heep: 2 loudshoorn, Oudtshoorn Dierekliniek heep: 2 loudshoorn, Oudtshoorn Dierekliniek heep: 1 Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal ledielberg Lastern Cape  2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported leder 2.0 (1)  Reverage 3.0 (1)		lfour Diereklin	iek							
wazulu-Natal stcourt, Estcourt Vet Clinic heep: 2 Inderberg, Underberg Veterinary Surgery lainy: 2, Sheep: 2 Vestern Cape leidelberg (WC), Heidelberg Dierekliniek heep: 3 Inderberg, Underberg Veterinary Surgery leidelberg (WC), Heidelberg Dierekliniek heep: 2 Inderberg, Underberg Veterinary Surgery leidelberg (WC), Heidelberg Dierekliniek heep: 2 Inderberg, Underberg Veterinary Surgery leidelberg (WC), Heidelberg Dierekliniek heep: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 2, Dairy: 2, Sheep: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 2, Dairy: 2, Sheep: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 3, Dairy: 2, Sheep: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 3 Inderberg, Valley, Malmesbury Dierehospitaal heef: 3 Inderberg, Valley, Malmesbury Dierehospitaal heef: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 2 Inderberg, Valley, Malmesbury Dierehospitaal heef: 2 Inderberg, Valley, Malmesbury Dierekliniek heep: 3 Inderberg, Valley, Melspruit Animal Hospital heep: 2 Inderberg, Valley, Melspruit Animal Hospital heep: 3 Inderberg, Valley, Melspruit Animal Hospital heep: 2 Inderberg, Va										
wazulu-Natal skcourt, Estcourt Vet Clinic heep: 2 larger Cape ledielberg UWC), Heidelberg Dierekliniek heep: 2 ludtshoorn, Oudtshoorn Dierekliniek eef: 1, Sheep: 1  PROVINCE Mpumalanga leder 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 eported leef: 2 ludushoot larvae  PROVINCE Mpumalanga leder 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 eported leef: 2 ludushoot larvae  PROVINCE Mpumalanga leder 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 eported leef: 2 lumpopo level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported leef: 2 lumpopo level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported leef: 2 lumpopo level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level of importance scale: 1 = one cas		rankfort Diore	deliminde							
indeziberg, Underberg Veterinary Surgery inderberg, 2  Vestern Cape leidelberg (WC), Heidelberg Dierekliniek heep: 2  falmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2  Vetern, Oudtshoorn Dierekliniek heep: 3  falmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2  Vestern Cape  Vestern Cape  Vestern Norther Cape  Norther		ranktort biere	Kiiniek							
Average 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases seported  PROVINCE Mpumalanga Gauteng Limpopo North West Pree State Region 1.5 (2)  Region 1.5 (2)  Region 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 seported  Region 3.0 (1)  Reverage 3.0 (1)		atal								
heep: 2 Inderberg, Underberg Veterinary Surgery largiv; 2, Sheep: 2 Vestern Cape Ideldelberg (WC), Heidelberg Dierekliniek heep: 2 Idalmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2 Vestern, Quidtshoorn, Oudtshoorn Dierekliniek eef: 1, Sheep: 1  Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported level: 2.0 (1) Injumalanga letspruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Refresion State Stat			nic							
Inderberg, Underberg Veterinary Surgery  Jainy: 2, Sheep: 2  Vestern Cape  Leidelberg (WC), Heidelberg Dierekliniek  Heep: 2  Jalimesbury, Malmesbury Dierehospitaal  Jalimesbury, Malmesbury Dierehospitaal  Jalimesbury, Malmesbury Dierehospitaal  Jalimesbury, Malmesbury Dierekliniek  Jalimesbury, Malmesbury, Longtom Dierekliniek  Jalimesbury, Malmesbury, Longtom Dierekliniek  Jalimesbury, Morther Dierekliniek  Jalimesbury, Longtom Dierekliniek  Jalimesbury, Morther D	•									
Vestern Cape Vestern Natal Vestern Cape Vest	•	Underberg Ve	terinary S	Surgery						
Reidelberg (WC), Heidelberg Dierekliniek heep: 2 heef: 2, Dairy: 2, Sheep: 2 rudtshoorn, Oudtshoorn Dierekliniek eef: 1, Sheep: 1  Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Norther Cape  Reported  Ref 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Ref 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Ref 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Ref 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reverage 3.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reported 3.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reported 3.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reported 3.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reported 3.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Reverage 3.0 (1)										
heep: 2 falmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2 Pudtshoorn, Oudtshoorn Dierekliniek eef: 1, Sheep: 1  Screw-worm  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Eastern Cape Norther Cape  Average 2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  PROVINCE Mpumalanga Gauteng Limpopo West State Stan ten and 3 = more than 10 cases reported  Average 3.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 1.5 (2)  2.0 (1)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 1.5 (2)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 1.5 (2)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 (5)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 (5)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 (5)  2.0 (1)  Limpopo West State Stan ten and 3 = more than 10 cases reported  2.6 (5)  2.0 (1)		•								
Malmesbury, Malmesbury Dierehospitaal eef: 2, Dairy: 2, Sheep: 2  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape Norther Cape  Average 2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Norther Cape  DROVINCE Mpumalanga Gauteng Limpopo North West State Norther Cape Norther Cape  DROVINCE Norther Cape  D		(WC), Heidelb	erg Dierel	kliniek						
province Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Cape Cape Cape Cape Cape	•									
Average 2.0 (1)  Average 3.0 (1)  Averag			Dierehos	pitaal						
Grew-worm  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratel Cape Cape Cape Cape Cape Cape Cape Cape			D: I-I!!	_1_						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Ratal Eastern Cape Norther Cape  2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  2.0 (1)  Appumalanga leispruit, Nelspruit Animal Hospital eeff: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Natal Eastern Cape Cape  Average 3.0 (1)  Limpopo North West State Kwazulu- Natal Eastern Cape Cape Cape  2.0 (1)  2.0 (1)  2.0 (1)  2.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  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 eported  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 eported  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 eported  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 eported  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 eported  Average 3.0 (1)			Dierekiini	ек						
Average 2.0 (1)  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported	beer: 1, Shee	ep: 1								
Average 2.0 (1)  evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  leef 2.0 (1)  Inpumalanga leispruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Raverage 3.0 (1)  Evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported  Limpopo North West State Kwazulu- Raverage 3.0 (1)  Eastern Cape Cape  Average 3.0 (1)  2.6 (5)  1.5 (2)  2.0 (1)  Inpumalanga State	Screw-w	orm								
evel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases eported    2.0 (1)	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northerr Cape
reported  leef 2.0 (1)  Inpumalanga  lelspruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raverage 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  lheep 3.0 (1)  Inpumalanga ydenburg, Longtom Dierekliniek heep: 3 ree State	Average	2.0 (1)								
Mpumalanga lelspruit, Nelspruit Animal Hospital leef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- Raverage 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  Albert Mest State St		2.0 (1)								
Relispruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  2.6 (5) 1.5 (2) 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  3.0 (1) 2.0 (1)  Repumalanga Sydenburg, Longtom Dierekliniek heep: 3 ree State			= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Relispruit, Nelspruit Animal Hospital eef: 2  Nasal bot larvae  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  2.6 (5) 1.5 (2) 2.0 (1)  Revel of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  3.0 (1) 2.0 (1)  Repumalanga Sydenburg, Longtom Dierekliniek heep: 3 ree State	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
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Rate State	Level of imp reported Beef	ortance scale: 1 2.0 (1)	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than I	10 cases
Average 3.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Theep 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  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 r	Level of imp reported Beef Upumalang Nelspruit, N	2.0 (1)			than on	e case b	ut less than t	en and 3 =	more than I	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    Cheep	Level of imp reported <b>Beef</b> <b>Mpumalang</b> <b>Nelspruit, N</b> Beef: 2	2.0 (1)  a lelspruit Anima			than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Peported  Sheep 3.0 (1)  Sheep 3.0 (1)  Sheep 3.0 (1)  Sheep: 3  Sheep: 3  Sheep: 3	Level of impreported  Beef  Mpumalang Nelspruit, Notes: 2  Nasal books	2.0 (1)  a lelspruit Anima t larvae	al Hospita	ıl	North	Free	Kwazulu-	Eastern	Western	Northern
Ipumalanga ydenburg, Longtom Dierekliniek heep: 3 ree State	Level of impreported  Beef  Mpumalang Nelspruit, Notes: 2  Nasal books	2.0 (1)  a lelspruit Anima t larvae  Mpumalanga	al Hospita	ıl	North	Free State	Kwazulu- Natal	Eastern	Western Cape	Northern
ydenburg, Longtom Dierekliniek heep: 3 ree State	Level of impreported  Beef  Mpumalang Nelspruit, Notes: 2  Nasal boo  PROVINCE  Average  Level of imp	2.0 (1)  a lelspruit Anima t larvae  Mpumalanga  3.0 (1)	al Hospita Gauteng	Limpopo	North	Free State  2.6 (5)	Kwazulu- Natal	Eastern Cape	Western Cape  2.0 (1)	Northerr Cape
heep: 3 ree State	Level of impreported  Beef  Apumalang Nelspruit, Nasal boo PROVINCE  Average  Level of impreported	2.0 (1)  a lelspruit Anima t larvae  Mpumalanga  3.0 (1)  ortance scale: 1	al Hospita Gauteng	Limpopo	North	Free State  2.6 (5) e case b	Kwazulu- Natal 1.5 (2) ut less than t	Eastern Cape	Western Cape  2.0 (1)  more than 3	Northerr Cape
ree State	Level of impreported  Beef  Mpumalang Nelspruit, Name 2  Nasal boo  PROVINCE  Average  Level of impreported  Sheep  Mpumalang	2.0 (1)  a delspruit Anima t larvae  Mpumalanga  3.0 (1)  ortance scale: 1  3.0 (1)	Gauteng  = one case	Limpopo	North	Free State  2.6 (5) e case b	Kwazulu- Natal 1.5 (2) ut less than t	Eastern Cape	Western Cape  2.0 (1)  more than 3	Northern Cape
	Level of impreported  Beef  Mpumalang Nelspruit, Notes: 2  Nasal boo  PROVINCE  Average  Level of impreported  Sheep  Mpumalang Lydenburg,	2.0 (1)  a delspruit Anima t larvae  Mpumalanga  3.0 (1)  ortance scale: 1  3.0 (1)	Gauteng  = one case	Limpopo	North	Free State  2.6 (5) e case b	Kwazulu- Natal 1.5 (2) ut less than t	Eastern Cape	Western Cape  2.0 (1)  more than 3	Northerr Cape
	Level of impreported  Beef  Ipumalang Nelspruit, North Beef: 2  Nasal boo  PROVINCE  Level of impreported  Sheep  Ipumalang Lydenburg, Sheep: 3	2.0 (1)  a delspruit Anima t larvae  Mpumalanga  3.0 (1)  ortance scale: 1  3.0 (1)	Gauteng  = one case	Limpopo	North	Free State  2.6 (5) e case b	Kwazulu- Natal 1.5 (2) ut less than t	Eastern Cape	Western Cape  2.0 (1)  more than 3	Northerr Cape

Sheep: 3									
	Ladybrand Die	erekliniek							
Sheep: 3									
	nekal Dierekli	niek							
Sheep: 2									
	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 3									
Kwazulu-Na									
	dumeni Herd l	nealth							
Sheep: 2									
	Mtubatuba Ar	nimal Clin	ic						
Sheep: 1									
<b>Western Ca</b>	ре								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Sheep: 2									
Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
						1 11			
Average	2.3 (3)					1.5 (2)			
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
Beef	2.0 (2)					2.0 (1)			
Sheep	3.0 (1)					1.0 (1)			
Mpumalang	а								
	four Diereklin	iek							
	l Di								
	Longtom Dier	екипіек							
Beef: 3, Shee	•								
Kwazulu-Na		<b>611 1</b>							
	ergville Veteri	nary Ciini	С						
Beef: 2									
	ugela Vet Clini	ic							
Sheep: 1									
Mosquito	es								<u>^</u>
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)			
Kwazulu-Na	atal								
	ergville Veteri	nary Clini	С						
Beef: 3									

Tick-bor	ne Disease	es							
African re	ed water								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (4)			1.0 (1)	2.0 (3)	1.9 (12)	2.0 (2)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.5 (4)			1.0 (1)	2.0 (3)	1.9 (11)	2.0 (1)	2.0 (2)	
Dairy						2.0(1)	2.0(1)		
Mpumalang	a								
	rootvlei Diere	kliniek							
Beef: 2									
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 3									
	, Middelburg I	Dierehosp	itaal						
Beef: 3									
Standerton,	Econovet								
Beef: 2									
North West									
Beef: 1	Klerksdorp Di	erenospit	aaı						
Free State									
	Harrismith Di	erehosnit	aal						
Beef: 3		Ciciospic	<b></b>						
	loopstad Dier	ekliniek							
Beef: 2									
Reitz, Riem	land Dierehos	pitaal							
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	ugela Vet Clini	IC							
Beef: 2	dumoni Hord I	hoolth							
Beef: 3	dumeni Herd l	icalli							
	tcourt Vet Cli	nic							
Beef: 1	touit fet cili								
	G.Veterinary S	ervices							
Beef: 2	<b>,</b> -								
Mooi River,	<b>Mooirivier Vet</b>	t Clinic							
Beef: 2									
	Mtubatuba Aı	nimal Clin	ic						
Beef: 2		_							
	Ncanduvet Ne	wcastle							
Beef: 2	-la								
Pietermarit	zburg, Veterin	ary House	nospital						

Beef: 2 Pongola, Pongola Animal Clinic Beef: 1 Young calves **Underberg, Underberg Veterinary Surgery** Vryheid, Vryheid Privaat Veeartse Beef: 2 **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Jeffreys Bay, Cape Cross Veterinary Hospital** Dairy: 2 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Heidelberg (WC), Heidelberg Dierekliniek Beef: 2 Asiatic red water North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0 2.0(1)2.0(1)**Average** 2.0(4)1.0(1)1.5 (10) (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 **Beef** 2.0(4)1.0(1)2.0(1)1.5 (8) 1.5 (2) 2.0(1)**Dairy Mpumalanga Balfour, Balfour Dierekliniek** Beef: 1 Lydenburg, Longtom Dierekliniek Beef: 2 Middelburg, Middelburg Dierehospitaal Beef: 3 **Standerton, Econovet** Beef: 2 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 1 **North West** Ventersdorp, Ventersdorp Dierekliniek Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 2 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic

Beef: 2

Beraville. T	ugela Vet Clini	ic							
Beef: 2									
Dundee, En	dumeni Herd l	nealth							
Beef: 2, Dair	y: 1								
Estcourt, Es	stcourt Vet Cli	nic							
Beef: 1									
	G.Veterinary S	ervices							
Beef: 2									
	Mooirivier Ve	t Clinic							
Beef: 1									
	, Mtubatuba Aı	nimai Clin	IC						
Beef: 1	-b Vataria	U	. Usanital						
Beef: 1	zburg, Veterin	ary nouse	поѕрітаі						
	Underberg Ve	torinary S	Surgery						
Dairy: 2	Oliderberg ve	termary 3	urgery						
Eastern Car	16								
-	y, Cape Cross \	Veterinary	/ Hospital						
Dairy: 2	,, cape 0.000	,	· · · · · · · · · · · · · · · · · · ·						
Anaplasr	nosis								_
PROVINCE	Mpumalanga	Gauteng	Limpono	North		Kwazulu-	Eastern	Western	Northern
		- autong	popo	West	State	Natal	Cape	Cape	Cape
Average	2.0.(2)			2.0.(2)	1.8	1.7 (0)	1.0 (2)	17(6)	
Average	2.0 (2)			2.0 (3)	(12)	1.7 (9)	1.0 (2)	1.7 (6)	
Level of imp	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									
					1.8				
Beef	2.0(2)			2.0(3)	(12)	1.6 (7)	1.0(1)	1.6 (5)	
	, , ,			, í	(12)	` ′	ì í	` ′	
Dairy						2.0 (2)	1.0 (1)	2.0 (1)	
Mpumalang	ja								
Grootvlei, C	Grootvlei Diere	kliniek							
Beef: 2									
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 2									
North West									
	<b>Christiana Die</b>	rehospita	al						
Beef: 3									
	Reneke, Buffe	ldoorn Die	erekliniek	SR					
Beef: 2									
	p, Ventersdorp	Diereklin	ilek						
Beef: 1									
Free State	Cuardinana	Diorece	0 0   e   e   e   e   e						
	, Greylingsrust	Dierespr	eekkamer						
Beef: 2	localan Diazala	linick							
	locolan Dierek	шиек							
Beef: 2	Frankfort Diere	kliniak							
Beef: 2	rialiki oft Diefe	KIIIIIEK							
	Harrismith Di	arahasnit	ادد						
i iai i isiiiiui,	mannsillui Di	ei eiiospik	adı						

Beef: 1 Hoopstad, Hoopstad Dierekliniek Beef: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Ladybrand, Ladybrand Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Reitz, Riemland Dierehospitaal Beef: 2 Senekal, Senekal Dierekliniek Beef: 1 Viljoenskroon, Viljoenskroon Dierekliniek Wesselsbron, Wesselsbron Dierekliniek Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 Bergville, Tugela Vet Clinic Beef: 2 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Eshowe, Eshowe Veterinary Hospital** Beef: 1 **Kokstad, E.G.Veterinary Services** Beef: 2 **Mooi River, Mooirivier Vet Clinic** Beef: 1 Pietermaritzburg, Veterinary House Hospital **Underberg, Underberg Veterinary Surgery** Dairy: 2 Acute deaths **Eastern Cape Alexandria, Riverview Trading Vet Consulting Services** Aliwal North, Hertzogbrug Dierekliniek Beef: 1 **Western Cape Darling, Tygerberg Dierehospitaal Darling** Beef: 2 **George, George Animal Hospital** Beef: 1 Malmesbury, Malmesbury Dierehospitaal

Beef: 2
Heartwater

Beef: 2, Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

**Worcester, Durban Straat Dierekliniek Worcester** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	2.0 (2)	2.0 (1)	2.0 (2)		1.8 (12)	1.7 (3)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef	2.5 (2)		2.0 (1)	2.0(2)		1.8 (6)	2.0 (2)		
Dairy							1.0 (1)		
Sheep	2.0(1)	2.0 (1)				1.7 (3)			
Goat	2.0 (1)	2.0 (1)				2.0 (3)			
Mpumalang	2	2.0 (1)				2.0 (3)			
	Longtom Dier	ekliniek							
Beef: 2, Shee									
	, Middelburg [	Dierehosp	itaal						
Beef: 3		-							
Gauteng									
	raal, Themba <i>A</i>	Animal Cli	nic						
Sheep: 2, Go	at: 2								
Limpopo									
	Vaalwater Die	respreekk	amer						
Beef: 2 North West									
Brits, Brits I	Diorokliniok								
Beef: 2	Dierekiiliek								
	, Bergbos Dier	ekliniek							
Beef: 2	, beigboo biei	Citimicit							
Kwazulu-Na	ntal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2	_								
Bergville, To	ugela Vet Clini	С							
Sheep: 2									
	dumeni Herd h	nealth							
Beef: 2, Shee	•	_							
	tcourt Vet Clir	nic							
Beef: 2, Goat		imal Clini							
Beef: 2, Goat	Mtubatuba Ar	iimai Ciin	IC .						
	∠ ongola Animal •	Clinic							
Beef: 1, Shee		Cillic							
	heid Privaat \	/eeartse							
Beef: 2	,								
Eastern Cap	е								
Alexandria,	Alexandria Pla	atteland S	preekkam	er					
Beef: 2									
	Riverview Tra	ding Vet (	Consulting	Service	S				
Beef: 2, Dairy	/: 1								
Sweating	Sickness								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Christiana, Christiana Dierehospitaal

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 1 Free State

**Bloemfontein, Dr Stephan Wessels** 

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 2

**Hoopstad, Hoopstad Dierekliniek** 

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

#### **Insect Transmittable Diseases Lumpy skin disease** North Free Kwazulu-Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.5 1.0(1)1.0(1) **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

Beef 1.0 (1) 1.5 (2) 1.0 (1)

Mpumalanga

Middelburg, Middelburg Dierehospitaal

Beef: 1 Free State

Hoopstad, Hoopstad Dierekliniek

Reef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Kwazulu-Natal

**Dundee, Endumeni Herd health** 

Beef: 1

Three-day-stiffsickness

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)	1.0 (2)		1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef					3.0 (1)	1.0 (2)		1.5 (2)	
Free State									
	n, Wesselsbro	n Dierekli	niek						
Beef: 3									
Outbreak alor	ng the Vet river	between P	ort Allen and	d Hoopst	ad. Area	s that were fl	ooded duri	ng April 201	9.
Kwazulu-Na	ital								
Dundee, En	dumeni Herd h	ealth							
Beef: 1									
	ngola Animal	Clinic							
Beef: 1									
Western Ca									
	(WC), Heidelb	erg Dierel	kliniek						
Beef: 2	ikathara Diar	oboonitoo	1						
Beef: 1	Piketberg Dier	enospitaa							
beer. 1									
Blue tong	jue								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)						2.0 (1)	3.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Sheep	1.0(1)						2.0 (1)	3.0 (1)	
Mpumalang							=(-)		
	a rootvlei Diere	kliniek							
Sheep: 1	. Journal Dicke								
Eastern Cap	е								
	, Cape Cross \	eterinary/	Hospital						
Sheep: 2									
Western Ca									
Western Ca	pe orge Animal Ho	ospital							
Western Ca George, Geo		ospital							_
Western Ca George, Geo Sheep: 3 Nagana			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

reported	1						_		
Beef						2.0 (1)			
Kwazulu-Na	ital								
Mtubatuba,	Mtubatuba Aı	nimal Clin	ic						
Beef: 2									
Vonoroa	l Diseases								
venerea	i Diseases								
Trichomo	mania								_
Trichonio	HOSIS								_
DD OVINCE	M	Ct		North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	шроро	West	State	Natal	Cape	Cape	Cape
					24				
Average	2.3 (4)	1.0 (1)		2.5 (2)	(11)	2.0 (3)	2.0 (1)		2.0 (1)
					(11)				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported							1	_	
Beef	2.3 (4)	1.0 (1)		2.5 (2)	2.4	2 () (3)	2.0 (1)		2.0 (1)
Dec.	2.3 (4)	1.0 (1)		2.5 (2)	(11)	2.0 (3)	2.0 (1)		2.0 (1)
Mpumalang	а								
Bethal, Beth	nal Diereklinie	k							
Beef: 2									
Grootvlei, G	irootvlei Diere	kliniek							
Beef: 2									
	, Middelburg I	Dierehosp	itaal						
Beef: 3									
Standerton,	Econovet								
Beef: 2									
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1									
North West									
	Klerksdorp Di	ierenospit	aaı						
Beef: 2									
	stad, Leeudori	ngstad Di	erekiiniek						
Beef: 3									
Free State	in Du Ctanhau	. Wassala							
Beef: 2	in, Dr Stephar	ı wesseis							
	Eventeior 7 but	la positivo							
	Excelsior - 7 bul								
Beef: 2	, Ріаскор Біеі	ekiiiiek							
Two positive	hulle								
	Dosvrystaat Di	ere Produ	ıkte						
Beef: 1	Josy i ystaat Di	cie riout	INC						
	rankfort Diere	kliniek							
Beef: 3	Taliki Of C Diele	CK							
	loopstad Dier	ekliniek							
Beef: 3	potaa bici								
	Kroonstad Die	rehospita	al						
55.15644/	JJJ DIC								

Beef: 3									
Parys, Parys	s Dierehospita	al							
Beef: 2									
Reitz, Riem	land Dierehos	pitaal							
Beef: 3									
Senekal, Se	nekal Dierekli	niek							
Beef: 3									
Villiers, Wil	gepoort Dierel	diniek Ve	nnootskap	)					
Beef: 2	<del></del>								
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 2									
Kwazulu-Na	ıtal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1									
Dundee, En	dumeni Herd h	nealth							
Beef: 2									
Vryheid, Vry	/heid Privaat \	/eeartse							
Beef: 3									
15 out of 50	plus bulls positiv	⁄e							
Eastern Cap									
<b>Aliwal Nortl</b>	h, Hertzogbrug	j Diereklii	niek						
Beef: 2									
Northern Ca	ipe								
Postmasbur	g, Postmasbu	rg Dierekl	liniek						
Beef: 2									
N/*!									
Vibriosis									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo		State 2.0				
Average	-			2.0 (3)	2.0 (8)	1.0 (1) ut less than t	Cape	Саре	Cape
Average Level of impo	1.0 (1) ortance scale: 1			2.0 (3)	2.0 (8)	1.0 (1) ut less than t	Cape	Саре	Cape
Average Level of imporeported	1.0 (1) ortance scale: 1 1.0 (1)			2.0 (3) than one	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang	1.0 (1) ortance scale: 1 1.0 (1)	= one case	e, 2 = more	2.0 (3) than one	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang	1.0 (1)  ortance scale: 1  1.0 (1)	= one case	e, 2 = more	2.0 (3) than one	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg	1.0 (1)  ortance scale: 1  1.0 (1)	= one case	e, 2 = more	2.0 (3) than one	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg Beef: 1  North West	1.0 (1)  ortance scale: 1  1.0 (1)	= one case	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg Beef: 1  North West	1.0 (1)  ortance scale: 1  1.0 (1)  a  , Middelburg I	= one case	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudorings Beef: 3	1.0 (1)  ortance scale: 1  1.0 (1)  a  , Middelburg I	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg Beef: 1  North West Leeudoring: Beef: 3  Schweizer-I	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg Beef: 1  North West Leeudoring: Beef: 3  Schweizer-I Beef: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of impore reported  Beef  Mpumalang Middelburg Beef: 1  North West Leeudoring: Beef: 3  Schweizer-I Beef: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori  Reneke, Buffel	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudoring: Beef: 3 Schweizer-I Beef: 2 Stella, Stella Beef: 1	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori  Reneke, Buffel	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudoring: Beef: 3 Schweizer-I Beef: 2 Stella, Stella Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori  Reneke, Buffel	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudoring: Beef: 3 Schweizer-I Beef: 2 Stella, Stella Beef: 1 Free State	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori Reneke, Buffel a Dierekliniek	= one case  Dierehosp  ngstad Di	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudoring: Beef: 3 Schweizer-I Beef: 2 Stella, Stell: Beef: 1 Free State Bloemfonte Beef: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori Reneke, Buffel a Dierekliniek	= one case  Dierehosp  ngstad Di  doorn Die	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape
Average  Level of imporeported  Beef  Mpumalang Middelburg Beef: 1 North West Leeudoring: Beef: 3 Schweizer-I Beef: 2 Stella, Stell: Beef: 1 Free State Bloemfonte Beef: 2	1.0 (1)  ortance scale: 1  1.0 (1)  a , Middelburg I  stad, Leeudori Reneke, Buffel a Dierekliniek  in, Dr Stephan	= one case  Dierehosp  ngstad Di  doorn Die	e, 2 = more	2.0 (3) than one 2.0 (3)	2.0 (8) e case b	1.0 (1) ut less than t	Cape	Саре	Cape

Frankfort, Frankfort Dierekliniek

Beef: 3									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Reitz, Rieml	and Dierehos	pitaal							
Beef: 1									
Senekal, Se	nekal Dierekli	niek							
Beef: 2									
	on, Viljoenskro	oon Diere	kliniek						
Beef: 2	, ,								
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 2	,								
Kwazulu-Na	ıtal								
	ergville Veteri	narv Clini	C						
Beef: 1		,							
	l Disease (	other)							
									^
Blackqua	rter								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)			2.3 (4)	2.0 (3)	1.5 (4)	1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (2)			2.3 (4)	2.0 (3)	1.5 (4)	1.0 (1)		
Mpumalang	a								
Bethal, Beth	nal Diereklinie	k							
Beef: 1									
Middelburg	, Middelburg I	Dierehosp	itaal						
Beef: 1									
<b>North West</b>									
Klerksdorp,	Klerksdorp Di	erehospit	aal						
Beef: 1									
Leeudorings Beef: 3	stad, Leeudori	ngstad Di	erekliniek						
Feedlot calve									
	, Bergbos Dier	okliniok							
Beef: 2	, Deignos Diei	CKIIIICK							
	, Ventersdorp	Diereblie	niek						
Beef: 3	, ventersuorp	DICIERIII	II-CR						
Free State									
	ocolan Dierek	liniek							
Beef: 3	ocolali Dielek	IIIICK							
	Kroonstad Die	rehoenita	al						
Beef: 1	ia oonstaa Die	. cnospira	u!						
	Ladybrand Die	arakliniak							
Beef: 2	Lauybi aliu Die	ei eriiiiek							
Kwazulu-Na	tal								
	tcourt Vet Clir	nic							
Beef: 2	Court Vet CIII								
DCCI. Z									

#### **Mooi River, Mooirivier Vet Clinic** Beef: 1 **Newcastle, Ncanduvet Newcastle** Pietermaritzburg, Veterinary House Hospital Beef: 1 **Eastern Cape** Uitenhage, Uitenhage Dierehospitaal Beef: 1 **Botulism** Kwazulu-**Eastern** Northern North Western Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 3.0 **Average** 1.0(1)1.0(1)1.0(2)2.0(1)(1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 1.0(1)**Beef** 1.0(1)1.0(1)Sheep 1.0(1)2.0(1)**Mpumalanga** Grootvlei, Grootvlei Dierekliniek Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 1 **Free State** Hoopstad, Hoopstad Dierekliniek Beef: 3 **Western Cape** Heidelberg (WC), Heidelberg Dierekliniek Malmesbury, Malmesbury Dierehospitaal Sheep: 1 **Northern Cape** Postmasburg, Postmasburg Dierekliniek Sheep: 2 **Pulpy Kidney** North Free Kwazulu-**Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** State Natal West Cape Cape Cape

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

1.5 (2)

1.5 (2)

**Average** 

3.0 (1)

2.0

(6)

2.0(2)

1.5(2)

Apumalanga Salfour, Balfour Dierekliniek Sheep: 1 Sydenburg, Longtom Dierekliniek Sheep: 2 Salteng Stronkhorstspruit, Kerkstraat Dierekliniek Sheep: 2 Salteng: Stronkhorstspruit, Kerkstraat Dierekliniek Sheep: 3 Salt						2.0	ı			ı
Apumalanga Balfour, Balfour Dierekliniek heep: 1 Aydenburg, Longtom Dierekliniek heep: 2 Bauteng bronkhorstspruit, Kerkstraat Dierekliniek heep: 3 Both West Balfour, Sterksdorp Dierehospitaal boat: 1 Bries State Bullfontein, Greylingsrust Dierespreekkamer heep: 2 Banteng: 2 Benekal, Senekal Dierekliniek heep: 2 Benekal, Senekal Dierekliniek heep: 3 Billiers, Wilgepoort Dierekliniek Vennootskap heep: 3 Billiers, Wilgepoort Dierekliniek Vennootskap heep: 2 Bastern Cape Barting, Tygerberg Dierehospitaal Inheep: 2 Bastern Lage Barting, Tygerberg Dierehospitaal Darling heep: 1 Balmesbury, Malmesbury Dierehospitaal heep: 2 Banteng Barting, Balfour Barting heep: 2 Barting, Tygerberg Dierehospitaal Darling heep: 2 Barting, Tygerberg Dierehospitaal Darling heep: 2 Barting, Tygerberg Dierehospitaal Darling heep: 2 Barting, Tygerberg Dierehospitaal heep: 3 Barting, Tygerberg Dierehospitaal heep: 1 Barting, Tygerberg Dierehospitaal heep: 3 Barting, Tyg	Sheep	1.5 (2)	3.0 (1)		2.0 (1)	2.0 (6)		2.0 (1)	1.5 (2)	
Salfour, Balfour Dierekliniek inheep: 2 inheep: 1 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 4 inheep: 4 inheep: 5 inheep: 5 inheep: 6 inheep: 6 inheep: 7 inheep: 8 inheep: 8 inheep: 9 inheep: 9 inheep: 9 inheep: 1 inheep: 1 inheep: 1 inheep: 2 inheep: 1 inheep: 2 inheep: 2 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 1 inheep: 2 inheep: 1 inheep: 1 inheep: 2 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 2 inheep: 1 inheep: 1 inheep: 2 inheep: 1 inheep: 2 inheep: 3 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 2 inheep: 2 inheep: 3 inheep: 3 inheep: 1 inheep: 1 inheep: 1 inheep: 2 inheep: 3 inheep: 1 inheep: 3 inheep: 1 inheep: 1 inheep: 2 inheep: 3 inheep: 4 inheep: 4 inheep: 5 inheep: 6 inheep: 6 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 1 inheep: 2 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 3 inheep: 4 inheep: 4 inheep: 5 inheep: 6 inheep: 6 inheep: 1 inheep: 7 inheep: 8 inheep: 8 inheep: 8 inheep: 9 inheep: 1 inheep	Goat				1.0(1)	)		2.0 (1)		
heep: 1 ydenburg, Longtom Dierekliniek heep: 2 iauteng isronkhorstspruit, Kerkstraat Dierekliniek heep: 3 loorth West irits, Brits Dierekliniek heep: 2 liderksdorp, Klerksdorp Dierehospitaal loot: 1 ree State lultfontein, Greylingsrust Dierespreekkamer heep: 2 larirsimith, Harrismith Dierehospitaal heep: 1 leitz, Riemland Dierehospitaal heep: 1 leitz, Riemland Dierekliniek heep: 2 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lilliers, Wilgepoort Dierekliniek Vennootskap heep: 2 larismith, Larirsimith Dierehospitaal heep: 2 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lijjoenskroon, Viljoenskroon Dierekliniek heep: 2 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lijjoenskroon, Viljoenskroon Dierekliniek heep: 2 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lijjoenskroon, Viljoenskroon Dierekliniek heep: 3 lijjoenskroon, Viljoenskroon Dierekliniek lijjoenskroon, Viljoensk	1pumalang	а								
Adenburg, Longtom Dierekliniek hieber; 2 hieber; 3 hieber; 3 horth West with Spirts Dierekliniek hieber; 3 horth West with Spirts Dierekliniek hieber; 3 horth West with Spirts Dierekliniek hieber; 2 hieber; 3 horth West with Spirts Dierekliniek hieber; 4 hieber; 5 hieber; 6 hieber; 7 hieber; 8 hieber; 9 h	Balfour, Bal	four Diereklin	iek							
integri 2  Sauteng Stronkhorstspruit, Kerkstraat Dierekliniek Sintepen 3  Lott West Strits, Brits Dierekliniek Sintepen 2  Gerksdorp, Klerksdorp Dierehospitaal Soat: 1  Tree State Bultfontein, Greylingsrust Dierespreekkamer Sintepen 2  Laterismith, Harrismith Dierehospitaal Sintepen 1  Leitz, Riemland Dierehospitaal Sintepen 2  Liftingenskroon, Viljoenskroon Dierekliniek Sintepen 2  Liftingenskroon, Viljoenskroon Dierekliniek Sintepen 3  Iffiliers, Wilgepoort Dierekliniek Vennootskap Sintepen 2  Laterismith, Tygerberg Dierehospitaal Darling Sintepen 2  Laterismith, Tygerberg Dierehospitaal  Limpopo  North West  State Natal  Laterismith Natal  Laterismith Sinterismith Dierehospitaal  Limpopo  North West  State Natal  Limpopo  North State  Northern  Cape  Northern  Cape  Lot (1)  Laterismith Dierehospita 10 cases  Reported  Limpopo  North State  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Cape  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Ca	Sheep: 1									
integri 2  Sauteng Stronkhorstspruit, Kerkstraat Dierekliniek Sintepen 3  Lott West Strits, Brits Dierekliniek Sintepen 2  Gerksdorp, Klerksdorp Dierehospitaal Soat: 1  Tree State Bultfontein, Greylingsrust Dierespreekkamer Sintepen 2  Laterismith, Harrismith Dierehospitaal Sintepen 1  Leitz, Riemland Dierehospitaal Sintepen 2  Liftingenskroon, Viljoenskroon Dierekliniek Sintepen 2  Liftingenskroon, Viljoenskroon Dierekliniek Sintepen 3  Iffiliers, Wilgepoort Dierekliniek Vennootskap Sintepen 2  Laterismith, Tygerberg Dierehospitaal Darling Sintepen 2  Laterismith, Tygerberg Dierehospitaal  Limpopo  North West  State Natal  Laterismith Natal  Laterismith Sinterismith Dierehospitaal  Limpopo  North West  State Natal  Limpopo  North State  Northern  Cape  Northern  Cape  Lot (1)  Laterismith Dierehospita 10 cases  Reported  Limpopo  North State  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Cape  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Cape  Limpopo  Limpopo  North State  Northern  Cape  Northern  Ca	ydenburg,	<b>Longtom Dier</b>	ekliniek							
Ronkhorstspruit, Kerkstraat Dierekliniek inheep: 3 loorth West Strits, Brits Dierekliniek inheep: 2 Iderksdorp, Klerksdorp Dierehospitaal ioat: 1 rice State Bultfontein, Greylingsrust Dierespreekkamer inheep: 2 Iderksdorp, Klerksdorp Dierehospitaal inheep: 1 Ideritz, Riemland Dierehospitaal inheep: 2 Iderksdorp, Klerksdorp Dierekliniek inheep: 2 Iderksdorp, Klerksdorp Dierekliniek inheep: 3 Ilijoenskroon, Viljoenskroon Dierekliniek inheep: 3 Ilijoenskroon, Viljoenskroon Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek inheep: 2 Iderksdorp, Wilgepoort Dierekliniek inheep: 1 Iderksdorp, Wilgepoort Dierekliniek inheep: 2 Iderksdorp, Wilgep	Sheep: 2									
Ronkhorstspruit, Kerkstraat Dierekliniek inheep: 3 loorth West Strits, Brits Dierekliniek inheep: 2 Iderksdorp, Klerksdorp Dierehospitaal ioat: 1 rice State Bultfontein, Greylingsrust Dierespreekkamer inheep: 2 Iderksdorp, Klerksdorp Dierehospitaal inheep: 1 Ideritz, Riemland Dierehospitaal inheep: 2 Iderksdorp, Klerksdorp Dierekliniek inheep: 2 Iderksdorp, Klerksdorp Dierekliniek inheep: 3 Ilijoenskroon, Viljoenskroon Dierekliniek inheep: 3 Ilijoenskroon, Viljoenskroon Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 2 Iderksdorp, Wilgepoort Dierekliniek Vennootskap inheep: 1 Iderksdorp, Wilgepoort Dierekliniek inheep: 2 Iderksdorp, Wilgepoort Dierekliniek inheep: 1 Iderksdorp, Wilgepoort Dierekliniek inheep: 2 Iderksdorp, Wilgep	•									
interp: 3 Iorth West Iorth West Iorth Sprits Dierekliniek interp: 2 Iores State Builtfontein, Greylingsrust Dierespreekkamer Interp: 2 Iorinismith, Harrismith Dierehospitaal Interp: 2 Iorinismith, Harrismith Dierehospitaal Interp: 2 Iorinismith, Senekal Dierekliniek Interp: 2 Iiljoenskroon, Viljoenskroon Dierekliniek Interp: 2 Interp: 4 Interpretation		spruit, Kerkstr	aat Dierel	kliniek						
North West  Sprits, Brits Dierekliniek Scheep: 2  Scheckaforp, Klerksdorp Dierehospitaal Scheep: 2  Scheep: 2  Scheep: 3  Scheep: 4  Scheep: 5  Scheep: 1  Scheep: 1  Scheep: 1  Scheep: 2  Scheep: 3  Scheep: 3  Scheep: 3  Scheep: 4  Scheep: 5  Scheep: 6  Scheep: 1  Scheep: 2  Scheep: 1  Scheep: 1  Scheep: 1  Scheep: 1  Scheep: 2  Scheep: 1  Scheep: 2  Scheep: 1  Scheep: 1  Scheep: 2  Scheep: 1		- <b>,</b>								
Brits, Brits Dierekliniek theep: 2 Gerksdorp, Klerksdorp Dierehospitaal Goat: 1 Free State Bullfontein, Greylingsrust Dierespreekkamer theep: 2 Beitz, Riemland Dierehospitaal theep: 2 Beitz, Riemland Dierekliniek theep: 2 Brits, Wilgepoort Dierekliniek theep: 3 Brits, Wilgepoort Dierekliniek Vennootskap theep: 2 Brits, Wilgepoort Dierekliniek Vennootskap theep: 3 Brits, Wilgepoort Dierekliniek theep: 4 Brit										
Clerksdorp, Klerksdorp Dierehospitaal Coat: 1  Free State Bultfontein, Greylingsrust Dierespreekkamer Integep: 2  Barrismith, Harrismith Dierehospitaal Integep: 2  Barrismith, Harrismith Dierehospitaal Integep: 2  Benekal, Senekal Dierekliniek Integep: 3  Free State  Wiljoenskroon, Viljoenskroon Dierekliniek Integep: 3  Free State  Wilgepoort Dierekliniek Vennootskap Integep: 2  Bastern Cape  Barrismith, Harrismith Dierehospitaal Integep: 2  Bastern Cape  Barrismith, Harrismith Dierehospitaal Integep: 2  Barrismith, Harrismith Dierehospitaal Integep: 3  Barrismith, Harrismith Dierehospitaal Integep: 4  Barrismith, Harrismith Dierekliniek Integep: 4  Barrismith, Ha										
Clerksdorp, Klerksdorp Dierehospitaal Stoat: 1 Tree State Sultrontein, Greylingsrust Dierespreekkamer Scheep: 2 Alarrismith, Harrismith Dierehospitaal Scheep: 1 Beltz, Riemland Dierehospitaal Scheep: 2 Senekal, Senekal Dierekliniek Scheep: 3 Filliers, Wilgepoort Dierekliniek Vennootskap Scheep: 3 Filliers, Wilgepoort Dierekliniek Vennootskap Scheep: 3 Filliers, Wilgepoort Dierekliniek Vennootskap Scheep: 2 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 2 Foater Cape Saraff-Reinet, Malmesbury Dierehospitaal Darling Scheep: 2 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 2 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 3 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 1 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 1 Foater Cape Saraff-Reinet, Camdeboo Veterinary Clinic Scheep: 1  Alalmesbury, Malmesbury Dierehospitaal Scheep: 1  Alalmesbury, Malmesbury Scheep: 1  Alalmesbur	•									
State State Sultfontein, Greylingsrust Dierespreekkamer Scheep: 2  Starrismith, Harrismith Dierehospitaal Scheep: 2  Steitz, Riemland Dierehospitaal Scheep: 2  Steitz, Riemland Dierekliniek Scheep: 2  Stiljoenskroon, Viljoenskroon Dierekliniek Scheep: 2  Stiljoenskroon, Viljoenskroon Dierekliniek Scheep: 2  Stiljoenskroon, Viljoenskroon Dierekliniek Scheep: 3  Stilliers, Wilgepoort Dierekliniek Vennootskap Scheep: 2  Steep: 2  Steetern Cape  Graaff-Reinet, Camdeboo Veterinary Clinic Scheep: 2, Goat: 2  Vestern Cape  Jaarling, Tygerberg Dierehospitaal Darling Scheep: 1  Scheep: 1  Scheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern 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  Scheep 1.0 (1)  Scheep 1.0 (1)  Scheep 1.0 (1)  Scheep 1.0 (1)	•	Klerksdorn Di	erehosnit	aal						
ree State bultfontein, Greylingsrust Dierespreekkamer sheep: 2 starrismith, Harrismith Dierehospitaal sheep: 1 belitz, Riemland Dierehospitaal sheep: 2 stenekal, Senekal Dierekliniek sheep: 2 statern Cape straff-Reinet, Camdeboo Veterinary Clinic sheep: 2 statern Cape straff-Reinet, Camdeboo Veterinary Clinic sheep: 2 statern Cape straff-Reinet, Camdeboo Veterinary Clinic sheep: 1 statem Tygerberg Dierehospitaal Darling sheep: 1 stallmesbury, Malmesbury Dierehospitaal sheep: 2 Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- Cape Cape Statern Cape straff-Reinet, Cape State Sta		Richksdorp Di	Cicilospic	uui						
Sultifontein, Greylingsrust Dierespreekkamer  sheep: 2  Aarrismith, Harrismith Dierehospitaal  sheep: 1  Selitz, Riemland Dierehospitaal  sheep: 2  Senekal, Senekal Dierekliniek  sheep: 2  Senekal Dierekliniek Vennootskap  sheep: 3  Senekal Dierekliniek Vennootskap  sheep: 2  Senekal Senekal Dierekliniek Vennootskap  sheep: 2  Senekal Senekal Dierekliniek  sheep: 2  Senekal Senekal Dierekliniek  sheep: 2  Senekal Senekal Dierekliniek  sheep: 1  Senekal Senekal Dierekliniek  sheep: 1  Senekal Senekal Dierekliniek  sheep: 2  Senekal Senekal Dierekliniek  sheep: 2  Seneka										
Sheep: 2  darrismith, Harrismith Dierehospitaal Sheep: 1  letitz, Riemland Dierehospitaal Sheep: 2  Senekal, Senekal Dierekliniek Sheep: 3  ///////////////////////////////////		Grevlingeruct	Dierespr	eekkamer						
Harrismith, Harrismith Dierehospitaal heep: 1 Redizt, Riemland Dierehospitaal heep: 2 Penekal, Senekal Dierekliniek heep: 2 Penekal, Senekal Dierekliniek heep: 3 Penekal, Senekal Dierekliniek heep: 3 Penekal, Senekal Dierekliniek Vennootskap heep: 1 Penekal, Senekal Dierekliniek Vennootskap heep: 2 Penekal, Senekal Dierekliniek heep: 3 Penekal, Senekal Dierekliniek heep: 1 Penekal, Senekal Dierekliniek heep: 2 Penekal, Senekal Dierekliniek heep: 2 Penekal, Senekal Dierekliniek heep: 2 Penekal Die		, Greyningsrust	. Dielespi	cerraniei						
Sheep: 1  keitz, Riemland Dierehospitaal Sheep: 2  Senekal, Senekal Dierekliniek Sheep: 2  Silijoenskroon, Viljoenskroon Dierekliniek Sheep: 3  Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2  Sastern Cape  Graaff-Reinet, Camdeboo Veterinary Clinic Sheep: 2, Goat: 2  Vestern Cape  Jarling, Tygerberg Dierehospitaal Darling Sheep: 1  Almesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- 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 10 cases reported  Sheep  1.0 (1)  Sastern Cape  Journal Of Cape  1.0 (1)  Sastern Cape  Journal Of Cape  Journal O		Harriemith Di	arahaenit:							
Reitz, Riemland Dierehospitaal heep: 2 Scenekal, Senekal Dierekliniek scheep: 3 //iljoenskroon, Viljoenskroon Dierekliniek heep: 3 //illiers, Wilgepoort Dierekliniek Vennootskap heep: 2 Scastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Scheep: 2, Goat: 2 Vestern Cape Darling, Tygerberg Dierehospitaal Darling heep: 1 Adalmesbury, Malmesbury Dierehospitaal heep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Rayen Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Scheep 1.0 (1)  Scastern Cape  Limpopo North Free West State Natal Cape Cape Cape Cape Cape Cape Cape Cape		namsiliui Di	ei eiiospik	aaı						
Scheep: 2 Scheekal, Senekal Dierekliniek Scheep: 2 Sirligenskroon, Viljoenskroon Dierekliniek Scheep: 3 Sirlilers, Wilgepoort Dierekliniek Vennootskap Scheep: 2 Scheep: 3 Scheep: 2 Scheep: 3 Scheep: 3 Scheep: 3 Scheep: 3 Scheep: 3 Scheep: 3 Scheep: 1 Scheep: 1 Scheep: 1 Scheep: 2 Scheep: 3 Scheep: 2 Scheep: 3 Schee	•	land Dianahaa	-:I							
Senekal, Senekal Dierekliniek Scheep: 2  Villjoenskroon, Viljoenskroon Dierekliniek Scheep: 3  Villiers, Wilgepoort Dierekliniek Vennootskap Scheep: 2  Scastern Cape Scraaff-Reinet, Camdeboo Veterinary Clinic Scheep: 2, Goat: 2  Vestern Cape Darling, Tygerberg Dierehospitaal Darling Scheep: 1  Valamesbury, Malmesbury Dierehospitaal Scheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North State Kwazulu- West State Kwazulu- 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 10 cases reported  Scheep 1.0 (1)  Scastern Cape  Limpopo North Free Kwazulu- Natal Cape Northern Cape North		iand Dierenos	pitaai							
Average  Average  Average  The provided in the	•	a a lant Diamatati								
/iljoenskroon, Viljoenskroon Dierekliniek sheep: 3 /illiers, Wilgepoort Dierekliniek Vennootskap sheep: 2 faastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic sheep: 2, Goat: 2 Vestern Cape Darling, Tygerberg Dierehospitaal Darling sheep: 1  // Almesbury, Malmesbury Dierehospitaal sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 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 10 cases reported  Sheep  1.0 (1)  Sastern Cape  1.0 (1)	•	пекаі ріегекіі	піек							
Average  The property of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  The property of the pro	•									
Average  Average  Limpopo  North West State  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  Scheep: 1  1.0 (1)  Limpopo		on, Viljoenskro	on Dierei	Kliniek						
Scheep: 2  Castern Cape  Graaff-Reinet, Camdeboo Veterinary Clinic  Scheep: 2, Goat: 2  Vestern Cape  Darling, Tygerberg Dierehospitaal Darling  Scheep: 1  Malmesbury, Malmesbury Dierehospitaal  Scheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 10 cases reported  Scheep 1.0 (1)  Cases  Cape 1.0 (1)  Cases  Cape 1.0 (1)  Cases  Cape 1.0 (1)										
Frankf-Reinet, Camdeboo Veterinary Clinic Sheep: 2, Goat: 2  Vestern Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 1  Malmesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 10 cases reported  Sheep  1.0 (1)  Eastern Cape  1.0 (1)		gepoort Dierel	kliniek Vei	nnootskap						
Graaff-Reinet, Camdeboo Veterinary Clinic Scheep: 2, Goat: 2  Vestern Cape Darling, Tygerberg Dierehospitaal Darling Scheep: 1  Malmesbury, Malmesbury Dierehospitaal Scheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo West State Kwazulu- 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 10 cases reported  Scheep  1.0 (1)  Sastern Cape  Miwal North, Hertzogbrug Dierekliniek Scheep: 1										
Neteen: 2, Goat: 2  Nestern Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 1  Malmesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 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 10 cases reported  Sheep  1.0 (1)  Sastern Cape  Miwal North, Hertzogbrug Dierekliniek Sheep: 1										
Vestern Cape Darling, Tygerberg Dierehospitaal Darling Sheep: 1  Malmesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 10 cases reported  Sheep  1.0 (1)  Sastern Cape  Miwal North, Hertzogbrug Dierekliniek Sheep: 1			Veterinar	y Clinic						
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal 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 10 cases reported Sheep: 1  State North, Hertzogbrug Dierekliniek Sheep: 1										
Alamesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 10 cases reported  Sheep  1.0 (1)  Eastern Cape  Miwal North, Hertzogbrug Dierekliniek Sheep: 1	Western Ca	ре								
Malmesbury, Malmesbury Dierehospitaal Sheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern 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 10 cases reported  Sheep 1.0 (1)  Castern Cape  Indicator Cape  Aliwal North, Hertzogbrug Dierekliniek  Cape Cape Cape  1.0 (1)	Darling, Tyg	gerberg Diereh	ospitaal [	Darling						
Cheep: 2  Lamb dysentry  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Northern Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep 1.0 (1)  Castern Cape  Limpopo North Free Kwazulu- Cape Cape Northern Cape  1.0 (1)  Cases reported  Cape Cape Cape Cape  1.0 (1)  Cases reported  Cape Cape Cape Cape  1.0 (1)	Sheep: 1									
PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  Indicate the case of	Malmesbury	y, Malmesbury	<b>Dierehos</b>	pitaal						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  1.0 (1)  Eastern Cape 1.0 (1)  Eastern Cape 1.0 (1)	Sheep: 2									
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  1.0 (1)  Eastern Cape 1.0 (1)  Eastern Cape 1.0 (1)										
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 10 cases reported  Sheep  1.0 (1)  Eastern Cape  Aliwal North, Hertzogbrug Dierekliniek  Sheep: 1	Lamb dys	sentry								_
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 10 cases reported  Sheep  1.0 (1)  Eastern Cape  Aliwal North, Hertzogbrug Dierekliniek  Sheep: 1						_				
Average  1.0 (1)  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  1.0 (1)  Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1	PROVINCE	Mpumalanga	Gauteng	Limpopo						
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)  Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1		<b>-</b>	<b>.</b>		West	State	Natal	Cape	Cape	Cape
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Sheep  1.0 (1)  Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1										
Sheep 1.0 (1)  Sastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1	Average							1.0(1)		
Sheep 1.0 (1)  Sastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1										
Sheep 1.0 (1) Eastern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 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
astern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1	reported									
astern Cape Aliwal North, Hertzogbrug Dierekliniek Sheep: 1	Sheep							1.0 (1)		
Aliwal North, Hertzogbrug Dierekliniek Sheep: 1	-	<u> </u>						(-)		
Sheep: 1			ı Dierekli:	niek						
		ıı, meræoguruç	PICICKIII	IICK						
Swelled head disease	лісер. 1									
	Swelled	nead diseas	e							

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					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 1	10 cases
Beef					1.0 (1)				
Sheep					2.0 (1)				
Free State									
	land Dierehos	oitaal							
Beef: 1	e Dierehospita	al							
Sheep: 2	e Dierenospita	ıaı							
Three cases									
Red gut (	cattle)								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)				3.0 (1)	1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.0 (2)				3.0 (1)				
Dairy						1.0(1)			
Mpumalang	a								
-	four Diereklin	iek							
	nal Diereklinie	k							
Beef: 1 Free State									
	rankfort Diere	kliniek							
Beef: 3	. drinki Or C Diel C								
Kwazulu-Na									
	dumeni Herd h	ealth							
Dairy: 1									
Blood gut	(Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

						_			
Average					2.0 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (2)				
Free State						<u>.</u>			
	nel Veterinary	Clinic							
Sheep: 2	D:I	-II:! - I- \/							
Sheep: 2	gepoort Dierek	kiiniek vei	nnootskap	)					
Tetanus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)		1.0 (1)		
reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Dairy					(1)				
Goat							1.0 (1)		
Free State									
	ocolan Dierek	liniek							
Dairy: 1 Eastern Cap	<u> </u>								
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1			_						
Salmonel	llosis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)	ĺ		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		3.0 (1)			2.0 (2)	2.0 (1)			
Gauteng Bronkhorsts	spruit, Kerkstr	aat Dierel	diniek						
Beef: 3	prais nerroti	aat Dieler							
Free State									
Bloemfonte	in, Dr Stephan	Wessels							

Beef	٠.	7
DCCI	٠	_

#### Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

#### **Kwazulu-Natal**

#### Vryheid, Vryheid Privaat Veeartse

Beef: 2

Brucella d	<i>abortus</i> (CA	)							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	3.0 (1)		2.8 (4)	2.4 (10)				

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

Beef	1.5 (2)	3.0 (1)	2.8 (4)	2.4 (10)
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#### **Mpumalanga**

## **Balfour, Balfour Dierekliniek**

Beef: 1

### Lydenburg, Longtom Dierekliniek

Beef: 2 Gauteng

### Hammanskraal, Themba Animal Clinic

Beef: 3
North West

# **Brits, Brits Dierekliniek**

Beef: 2

## Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

### Lichtenburg, Dr CM Kruger-Rall

Beef: 3

86 positive cases

# Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

A Total of 65 herds, 4699 animals tested. 29 Positive herds: Naledi = 7/15 herds (7 positive herds out of 15 herds tested), Mamusa = 3/7 herds, Mafikeng = 1/3 herds, Lekwa Teemane = 1/2 herds, Greater Taung = 3/13 herds, Kagisano = 6/11 herds, Molopo = 5/14 herds.

### **Free State**

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

Beef: 3

One new farm in Dealesville - 14 positive

## Frankfort, Frankfort Dierekliniek

Beef: 3

#### Harrismith, Harrismith Dierehospitaal

Beef: 3

### Hoopstad, Hoopstad Dierekliniek

Beef: 3

#### Kroonstad, Kroonstad Dierehospitaal

Beef: 3

# Ladybrand, Ladybrand Dierekliniek

Beef: 2

Parys, Parys Beef: 2	Fuerestata Cusid	rrei al d' CV							
Beef: 2	Freestate Smit	unieia Sv							
	mals (Mohakare	2)							
	gepoort Dierel		nnootskap						
Beef: 2	-								
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Brucella (	<i>ovis</i> (Ramsi	ekte)							4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					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
Sheep					1.5 (2)			1.0 (1)	
Free State									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap						
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Western Ca									
	est, Beaufort \	Nest State	e Vet						
Sheep: 1									
Septicae	mia								_
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)	1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b			more than	10 cases
	ortance scale: 1	= one case	e, 2 = more	than on	e case b		en and 3 =	more than	10 cases
reported  Dairy	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t		more than	10 cases
reported		= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported Dairy Goat Kwazulu-Na			e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported  Dairy  Goat  Kwazulu-Na Dundee, End Dairy: 1	ntal dumeni Herd h		e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported  Dairy  Goat  Kwazulu-Na  Dundee, End  Dairy: 1  Eastern Cap	ntal dumeni Herd h	nealth		than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported  Dairy  Goat  (wazulu-Na  Dundee, End  Dairy: 1  Eastern Cap  Graaff-Rein	ntal dumeni Herd h	nealth		than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported  Dairy  Goat  Kwazulu-Na  Dundee, End  Dairy: 1  Eastern Cap	ntal dumeni Herd h	nealth		than on	e case b	ut less than t	en and 3 =	more than	10 cases

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.2 (5)	2.0 (1)		3.0 (4)	2.5 (15)	1.3 (3)	2.0 (1)	2.0 (1)	2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef	2.3 (4)			3.0 (2)	2.7 (6)	1.3 (3)	2.0 (1)			
Dairy					3.0 (1)	,				
Sheep	2.0 (1)			3.0 (2)	2.4 (8)			2.0 (1)		
Goat		2.0 (1)							2.0(1)	
Mpumalanga Balfour, Balfour Dierekliniek Beef: 2 Grootvlei, Grootvlei Dierekliniek Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 3 Virulent E coli causing large scale deaths in calves Standerton, Econovet Beef: 2, Sheep: 2 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Goat: 2										
Beef: 3, Shee										
Leeudorings Beef: 3 Calves	stad, Leeudori	ngstad Di	erekliniek							
Sheep: 3 Free State										
Sheep: 2	in, Dr Stephan ocolan Dierekl									
Beef: 2, Shee										
	loopstad Diere	ekliniek								
Beef: 3, Shee <b>Kroonstad, I</b> Beef: 3, Dairy	Kroonstad Die	rehospita	al							
	and Dierehos	pitaal								
Sheep: 1	nekal Dierekli on, Viljoenskro									

Sheep: 2	gepoort Dierek	5 0							
Kwazulu-Na	atal								
	ugela Vet Clini	c							
Beef: 1	ugela vet cilli								
	<b>Mooirivier Vet</b>	Clinic							
Beef: 1									
/ryheid, Vr	yheid Privaat \	/eeartse							
Beef: 2	-								
Eastern Cap	e								
Alexandria,	Alexandria Pla	atteland S	Spreekkam	er					
Beef: 2									
<b>Vestern Ca</b>	pe								
Beaufort W	est, Beaufort V	West State	e Vet						
Sheep: 2									
	eeks, meningitis								
Northern Ca	-								
	rg, Postmasbu	rg Dierek	liniek						
Goat: 2									
Intraute	rine Gangrei	ne							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)							
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep		2.0(1)							
Gauteng									
Bronkhorst	spruit, Kerkstr	aat Diere	kliniek						
Sheep: 2									
Fusibact	erium necro	phorum							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								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								2.0(1)	
Western Ca	pe								
	y, Malmesbury	Dierehos	pitaal						
	,,		F						
Dairy: 2									

Other									^	
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 (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 3	10 cases	
Beef							2.0 (1)			
Dairy								1.0(1)		
Sheep									3.0 (1)	
Jeffreys Bay Beef: 2 Sporadic Clos Western Ca Stellenbosc Dairy: 1 Cryptosporidi Northern Ca Kuruman, K Sheep: 3 80 sheep diec	Sporadic Clostridium perfringens cases in cattle  Western Cape Stellenbosch, Stellenbosch Animal Hospital Dairy: 1 Cryptosporidiosis in 2 week old calves Northern Cape Kuruman, Kuruman Dierekliniek Sheep: 3 30 sheep died within 7 days in one out of 4 camps. Rotten porcupine carcase found in water trough.  Pasteurellosis (see lung infction)  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu-Natal Cape Cape Cape  2 0									
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)				
Sheep					2.0 (1)		'			
Free State										
Vrede, Vred Sheep: 2	e Dierehospita	aal								
Three cases										
Kwazulu-Na										
Estcourt, Es Beef: 1	tcourt Vet Clir	nic								
	al diseases	(other)	)							
Coccidios	sis								^	

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			1.0 (2)	2.2 (6)	1.3 (3)	2.0 (3)	2.7 (3)	3.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Beef				1.0 (1)	2.0 (3)	1.5 (2)			
Dairy								3.0 (1)	
Sheep					2.3 (3)		2.0 (1)		
Goat	2.0(1)			1.0(1)		1.0(1)	2.0(2)		3.0 (1)
Mpumalang	` ` `								
	- lelspruit Anima	al Hospita							
Goat: 2		oop	·-						
North West									
Klerksdorp.	Klerksdorp Di	erehospit	aal						
Goat: 1									
	o, Ventersdorp	Diereklir	niek						
Beef: 1	•								
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Sheep: 2	<u> </u>								
Frankfort, F	rankfort Diere	kliniek							
Beef: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Sheep: 2									
Reitz, Riem	land Dierehos <sub>l</sub>	pitaal							
Beef: 2									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee									
Kwazulu-Na									
	<b>Mooirivier Vet</b>	Clinic							
Beef: 1									
	ngola Animal	Clinic							
Goat: 1									
	Underberg Ve	terinary S	urgery						
Beef: 2									
Eastern Cap		Vata::!::	ar Cliete						
	et, Camdeboo	veterinai	y Clinic						
Goat: 2	ot Granff Bair	not Votori	nany Clinia	,					
Sheep: 2, Go	et, Graaff Reir	iet veteri	iiai y Ciiiil						
Western Ca									
	pe Jerberg Diereh	osnitaal I	Darling						
Dairy: 3, She		ıvəpitaai l	Jai iiiiy						
	ep. 5 <b>y, Groenkloof I</b>	Diereklini	ek						
Sheep: 2	, Groenkioori	DIEI EKIIIII	CN						
Lambs									
Northern Ca	ne								
.401 (116111 (6	.pc								

Postmasbur Goat: 3	rg, Postmasbu	rg Dierek	liniek						
Cryptosp	oridium								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)	2.0 (1)		3.0 (1)	2.7 (7)	2.0 (5)			
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 1	10 cases
Beef	3.0 (2)	2.0 (1)		3.0 (1)	2.7 (3)	2.3 (4)			
Sheep	3.0 (1)				2.8 (4)	1.0 (1)			
Beef: 3 Causing large Middelburg Beef: 3, Shee Gauteng Bronkhorst Beef: 2 North West Ventersdor Beef: 3 Calves Free State Bultfontein Beef: 3, Shee Clocolan, Cl Beef: 2, Shee Parys, Pary Beef: 3, Shee Villiers, Wil Sheep: 3 Kwazulu-Na Bergville, B Beef: 2 Estcourt, Es Beef: 1 Kokstad, E. Beef: 3 Tail end calve	spruit, Kerkstr p, Ventersdorp , Greylingsrust ep: 3 locolan Dierek ep: 2 s Dierehospita ep: 3 gepoort Dierel etal ergville Veteri stcourt Vet Clir G.Veterinary S es Ncanduvet Ne	calves less Dierehosp aat Dierel Diereklin Diereklin t Dierespra liniek al kliniek Ve nary Clinionic ervices	itaal kliniek niek eekkamer						

Ringworm

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)			3.0 (3)	2.2 (5)	1.5 (4)	2.0 (2)	1.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases		
Beef	(4)										
Dairy					1.0 (1)						
Goat							2.0 (1)				
Mpumalang	а										
	four Diereklin	iek									
Beef: 1											
<b>North West</b>											
	Dierekliniek										
Beef: 3											
	Christiana Die	rehospita	al								
Beef: 3											
	a Dierekliniek										
Beef: 3											
Free State											
	loopstad Diere	ekliniek									
Beef: 3			- •								
	Kroonstad Die	renospita	aı								
Beef: 2	makal Diavakli										
	nekal Dierekli	піек									
Dairy: 1	on, Viljoenskro	on Dioro	kliniak								
Beef: 3	on, viijoenski	Don Diere	KIIIIEK								
	gepoort Dierel	diniak Va	nnootskan								
Beef: 2	gepoort Dierer	VIIIIEK VE	шоосэкар	<u>,                                      </u>							
Kwazulu-Na	ntal										
	ergville Veteri	narv Clini	С								
Beef: 2		,	-								
	dumeni Herd h	nealth									
Beef: 1											
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic								
Beef: 2											
	Underberg Ve	terinary S	Surgery								
Beef: 1											
Eastern Cap											
	h, Hertzogbrug	) Dierekli	niek								
Beef: 2											
Bathurst, Dr Jane Pistorius											
Goat: 2											
Western Ca		L A ! !									
	h, Stellenbosc	n Animal	nospitai								
Beef: 1											

Viral Dis	eases (oth	er)								
BMC (Sno	otsiekte)								4	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)		2.0 (1)	2.0 (3)					
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases	
Beef		1.0 (1)		2.0 (1)	2.0 (3)					
Gauteng Bronkhorstspruit, Kerkstraat Dierekliniek Beef: 1										
Seef: 1										
	, Ventersdorp	Diereklin	iek							
Beef: 2	., тепевново р									
ree State										
3 loemfonte	in, Dr Stephan	Wessels								
Beef: 1	-									
loopstad, H	loopstad Diere	ekliniek								
Beef: 3										
	Freestate Smit	thfield SV								
Beef: 2		11 17								
one bull died	, last month 2 c	attle died (	Smithfield)							
Rabies										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average				2.0 (1)						
Level of impo reported	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										
	, Dr CM Kruge	r-Rall								
Beef: 2			امادها							
Beef: 2	cases in cattle,	one positiv	е јаскаг							
Beef: 2 Two positive	cases in cattle, or vine viral dia									
Beef: 2  Wo positive  BVD (Bov		arrhoea)		North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	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								1.0(1)		
Western Ca	pe									
	erberg Diereh	ospitaal I	Darling							
Dairy: 1										
IBR (Infe	ctious bovi	ne rhind	tracheit	is)					^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average						1.5 (2)		1.0 (1)		
Level of imported										
Beef						1.5 (2)				
Dairy							•	1.0(1)		
Kwazulu-Na	ıtal							3 /		
Bergville, To	ugela Vet Clini	С								
Beef: 1										
	zburg, Veterin	ary House	e Hospital							
Beef: 2										
Western Ca			<b>.</b>							
Dariing, iyg Dairy: 1	erberg Diereh	ospitaai i	Jarling							
	Bovine Leu	cosis (El	BL)						_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average						1.0 (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 (3)	1.0 (1)			
Kwazulu-Na	ıtal									
	ugela Vet Clini	С								
Beef: 1	B4	ol: .:								
	Mooirivier Vet	Clinic								
Beef: 1 <b>Dietermarit</b>	zburg, Veterin	ary Hauss	Hoenital							
Pietermarit. Beef: 1	zburg, veterin	ary House	nospital							
Eastern Cap	e									
cap	_									

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1
Orf

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average				2.5 (4)	1.6 (5)	1.0 (1)	1.0 (2)	2.3 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	.0 cases
Sheep				2.5 (2)	1.6 (5)			2.0 (3)	
Goat				2.5(2)		1.0(1)	1.0(2)	3.0 (1)	
North West									
	Christiana Die	rehosnita	al						
Sheep: 3, Go		renospita	aı						
	Reneke, Buffel	doorn Die	rekliniek (	SR					
Sheep: 2	Keneke, Burrer	uoom bio	J. CKIIIII CK	J.K.					
	o, Ventersdorp	Diereklir	niek						
Goat: 2	, reneerous.p	Z I GI GIKIII							
Free State									
Bloemfonte	in, Dr Stephan	Wessels							
Sheep: 2	,								
	nekal Dierekli	niek							
Sheep: 1									
Viljoenskro	on, Viljoenskro	on Diere	kliniek						
Sheep: 2									
Villiers, Wil	gepoort Dierek	diniek Ve	nnootskap						
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na									
	tcourt Vet Clir	nic							
Goat: 1									
Eastern Cap									
	et, Camdeboo	Veterina	y Clinic						
Goat: 1									
	Uitenhage Die	renospita	aı						
Goat: 1									
Western Ca	pe est, Beaufort V	Noct State	o Vot						
Sheep: 2	est, beautort v	vest State	e vet						
	ing, animals slee	an in class	contact with	h aach at	thor				
	orge Animal He	•	COIILACT WILL	ii cacii 0i	uici				
Sheep: 3	Jige Allillai N	ospital							
	, Malmesbury	Dierehos	nitaal						
Sheep: 1	,, .·iaimesbuly	21010103	pituui						
	, Vredenburg	Dierehosn	itaal						
Goat: 3	, Treachburg	- ici ciiosp	uui						
	nd communal fai	rms							
	communation for								
Warts									^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (1)			1.8 (6)	2.0 (4)		2.0 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.5 (2)	1.0 (1)			1.8 (5)	2.0 (4)		2.0 (3)	
Dairy					2.0 (1)				
<b>Mpumalang</b>	a								
	four Diereklin	iek							
Beef: 1									
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 2									
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 1									
Free State									
	in, Dr Stephan	Wessels							
Beef: 1									
	loopstad Diere	ekliniek							
Beef: 3	.,								
	Kroonstad Die	renospita	aı						
Beef: 3		. • . •							
	nekal Dierekli	піек							
Dairy: 2	annont Diaval	dinials Va		_					
Beef: 1	gepoort Dierek	kiiniek ve	ппоосѕкар	)					
	n Wassalshra	n Diarakli	nial:						
Wesselsbro	n, Wesselsbro	ii Dierekii	illek						
Kwazulu-Na	tal								
	ıcaı ergville Veteri	nary Clini	<u></u>						
Beef: 2	c.gville veteri	y Cilili							
	ugela Vet Clini	С							
Beef: 1	<u></u>								
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
	Underberg Ve	terinary S	urgery						
Beef: 3									
Western Ca	ре								
	orge Animal H	ospital							
Beef: 3									
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
	Durban Straat	Diereklin	iek Worce	ster					
Beef: 2									

Rota virus

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average				3.0 (1)	2.0 (1)	1.0 (2)	2.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef				3.0 (1)		1.0(2)	2.0 (1)				
Dairy				_	2.0 (1)						
North West		Disastalia									
Beef: 3	o, Ventersdorp	Dierekiin	нек								
Calves											
Free State											
	ocolan Dierek	liniek									
Dairy: 2											
Kwazulu-Na	ıtal										
Bergville, B	ergville Veteri	nary Clini	С								
Beef: 1											
	Ncanduvet Ne	wcastle									
Beef: 1											
Eastern Cap		J	O	<b>.</b>							
Beef: 2	Riverview Tra	aing vet	Consulting	Service	25						
Corona V	irus								^		
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 to	en and 3 =	more than :	10 cases		
Beef						1.0(1)					
Kwazulu-Na	ntal					(-)					
	ergville Veteri	narv Clini	С								
Beef: 1		, <b>.</b>	-								
Poisonings (Plant) and Fungal											
Cardiac glycoside poisoning											
Cardiac g	lycoside po	isoning							_		
	lycoside po		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		

Beef		1.0(1)		3.0 (2)					
Sheep		1.0 (1)		0.0 (2)				2.0 (1)	
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 1	• ′								
North West									
Stella, Stell	a Dierekliniek								
Beef: 3									
Slangkop									
	p, Ventersdorp	Diereklir	niek						
Beef: 3									
	<i>ginea</i> , especially	in heifers							
Western Ca									
	est, Beaufort \	West State	e Vet						
Sheep: 2									
Drought									
Cestrum	(Ink berry)								
				A1. 11.		17 - 1	F	<b>NA</b>	<b></b>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
_				2 0 (1)	1.3		ı		
Average				2.0 (1)	1.3 (3)				
_	ortance scale: 1	= one case	2 = more		(3)	ut less than t	en and 3 =	more than 1	In cases
Level of impo	ortance scale: 1	= one case	e, 2 = more		(3)	ut less than to	en and 3 =	more than 1	10 cases
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of imported	ortance scale: 1	= one case	e, 2 = more		(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of imported  Beef		= one case	e, 2 = more	than one	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West				2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-				2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-Beef: 2 Free State	Reneke, Buffel	doorn Die	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	LO cases
Level of impore reported  Beef  North West Schweizer-Beef: 2 Free State		doorn Die	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-Beef: 2 Free State Ladybrand, Beef: 2	Reneke, Buffel Ladybrand Die	doorn Die erekliniek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-leef: 2 Free State Ladybrand, Beef: 2 Senekal, Se	Reneke, Buffel	doorn Die erekliniek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-lefe: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1	Reneke, Buffel Ladybrand Die	doorn Die erekliniek niek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impresented  Beef  North West Schweizer-l Beef: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskro	Reneke, Buffel Ladybrand Die	doorn Die erekliniek niek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impresented  Beef  North West Schweizer-l Beef: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskro	Reneke, Buffel Ladybrand Die	doorn Die erekliniek niek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	10 cases
Level of impore reported  Beef  North West Schweizer-lefe: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskroe Beef: 1	Reneke, Buffel Ladybrand Die nekal Dierekli on, Viljoenskro	doorn Die erekliniek niek	erekliniek S	2.0 (1)	(3) e case b	ut less than to	en and 3 =	more than 1	LO cases
Reef North West Schweizer-l Beef: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskro Beef: 1 Facial eco	Reneke, Buffel Ladybrand Die nekal Dierekli on, Viljoenskro	doorn Die erekliniek niek oon Diere	erekliniek S	2.0 (1)	(3) e case b	ut less than to	Eastern	Western	Northern
Level of imported  Beef  North West Schweizer-l Beef: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskro Beef: 1 Facial eco	Reneke, Buffel Ladybrand Die nekal Dierekli on, Viljoenskro	doorn Die erekliniek niek oon Diere	erekliniek S	2.0 (1) SR North	(3) 1.3 (3) Free	Kwazulu-			
Level of impore reported  Beef  North West Schweizer-lefe: 2 Free State Ladybrand, Beef: 2 Senekal, Se Beef: 1 Viljoenskroe Beef: 1 Facial eco	Reneke, Buffel Ladybrand Die nekal Dierekli on, Viljoenskro	doorn Die erekliniek niek oon Diere	erekliniek S	2.0 (1) SR North	(3) 1.3 (3) Free	Kwazulu-	Eastern	Western	Norther

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)				
Free State Clocolan, Cl Beef: 2	ocolan Dierek	liniek							
	op/Dikoor								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)			2.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)			2.0 (1)	
	pe /, Malmesbury	Dierehos	pitaal						
Sheep: 2  Gifblaar									^
Gifblaar	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
Gifblaar	Mpumalanga	Gauteng	Limpopo 3.0 (1)						
Gifblaar PROVINCE Average	Mpumalanga ortance scale: 1		3.0 (1)	West	State	Natal	Cape	Cape	Саре
Gifblaar PROVINCE Average Level of impo			3.0 (1)	West	State	Natal	Cape	Cape	Саре
PROVINCE  Average  Level of imporeported  Beef  Limpopo	ortance scale: 1	= one case	3.0 (1) e, 2 = more 3.0 (1)	West	State	Natal	Cape	Cape	Саре
PROVINCE  Average  Level of imporeported  Beef  Limpopo  Vaalwater, Value 13		= one case	3.0 (1) e, 2 = more 3.0 (1) camer	West than on	State e case b	<b>Natal</b> ut less than t	Cape	Cape	Саре
PROVINCE  Average  Level of imporeported  Beef  Limpopo  Vaalwater, Value 13	ortance scale: 1  Vaalwater Die	= one case	3.0 (1) e, 2 = more 3.0 (1) camer	West than on	State e case b	<b>Natal</b> ut less than t	Cape	Cape	Саре
PROVINCE  Average  Level of imporeported  Beef  Limpopo  Vaalwater, Beef: 3  Two animals  Lantana	ortance scale: 1  Vaalwater Die	= one case respreekk m. Heard 6	3.0 (1) e, 2 = more 3.0 (1)  camer  0 cattle diec	West than on	State e case b	<b>Natal</b> ut less than t	Cape	Cape	Саре
PROVINCE  Average  Level of imporeported  Beef  Limpopo  Vaalwater, Beef: 3  Two animals  Lantana	ortance scale: 1  Vaalwater Die died on one fari	= one case respreekk m. Heard 6	3.0 (1) e, 2 = more 3.0 (1)  camer  0 cattle diec	than on	e case b	wit less than t	en and 3 =	more than	Cape  10 cases  A  Northern

reported

Beef			1.0 (1)			1.7 (3)						
Limpopo			( )			( )						
	Kranskop Dier	ekliniek										
Beef: 1												
Outbreak on												
	Kwazulu-Natal Bergville, Bergville Veterinary Clinic											
Beef: 2	ergville veteri	nary Clinic	С									
	dumeni Herd h	ealth										
Beef: 1		icarcii										
Pietermarit	zburg, Veterin	ary House	Hospital									
Beef: 2												
Prussic a	c <mark>id poisoni</mark> n	g							<u>^</u>			
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)						
Kwazulu-Na	ıtal					` ,						
American ree									^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average					2.0 (1)	2.0 (1)						
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
Beef					2.0 (1)	2.0 (1)						
Free State												
Ficksburg, C	Oosvrystaat Di	ere Produ	kte									
Beef: 2												
Kwazulu-Na		omiles -										
Beef: 2	3.Veterinary S	ervices										
Early cases												
Tulip Pois	soning								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			

<b>A</b>	2.0 (1)		1.0.(1)	2.0 (1)	1.5	1.0 (1)			
Average	2.0 (1)		1.0 (1)	2.0 (1)	(2)	1.0 (1)			
Level of impo	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
Beef	2.0 (1)		1.0 (1)	2.0 (1)	1.5 (2)	1.0 (1)			
Mpumalang									
	irootvlei Diere	kliniek							
Beef: 2									
Limpopo	Vranskan Diar	akliniak							
Beef: 1	Kranskop Dier	ekiiniek							
Two animals	died in herd								
North West	u.u								
Brits, Brits I	Dierekliniek								
Beef: 2									
Free State									
	gepoort Dierek	diniek Ve	nnootskap	)					
Beef: 2									
	e Dierehospita	nal							
Beef: 1									
Kwazulu-Na		Clinia.							
Mooi River, Beef: 1	Mooirivier Vet	Clinic							
Mycotoxi PROVINCE	cosis Mpumalanga	Gauteng	Limpopo	North West		Kwazulu-			Northern
Avorago				West	State	Natai	Cape	Cape	Саре
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
Dairy								2.0(1)	
Western Ca	pe								_
	y, Malmesbury	Dierehos	pitaal						
Dairy: 2									
Other									
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 (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)					
JEEI	1.0 (1)			1.0 (1)					

3.0 Sheep 2.0(1)(1)Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 1 Chinkerichee toxicity **North West** Schweizer-Reneke, Buffeldoorn Dierekliniek SR Photosensitivity in a white cow **Free State** Wesselsbron, Wesselsbron Dierekliniek Sheep: 3 Xanthium poisoning **Western Cape** Piketberg, Piketberg Dierehospitaal Sheep: 2 Chinkerinchee poisoning **Poisonings Urea Poisoning** Eastern North Free Kwazulu-Western Northern PROVINCE Mpumalanga Gauteng Limpopo West State Natal Cape Cape Cape 2.0(1)1.5 (2) 2.0(1)**Average** 2.0(1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.5 (2) **Beef** 2.0(1)2.0(1)2.0(1)Sheep Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Sheep: 2 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic Beef: 1 **Estcourt, Estcourt Vet Clinic** Beef: 2 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 **Northern Cape** Postmasburg, Postmasburg Dierekliniek Sheep: 2 **Snake Bite** Northern North Free Kwazulu-Western Eastern **PROVINCE Mpumalanga Gauteng Limpopo** State Natal West Cape Cape Cape

					1.0						
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											
Beef					1.0 (2)						
Free State											
Bultfontein, Greylingsrust Dierespreekkamer Beef: 1											
Hoopstad, F Beef: 1	loopstad Diere	ekiiniek									
Chemical	products								<u>^</u>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average					2.0 (1)						
Level of impore	Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases										
Sheep					2.0 (1)						
Free State	nel Veterinary	Clinic									
Sheep: 2	ilei veteriilai y	Cilling									
Macro N	utritional F	Problem	ıs								
Energy de	eficiency								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (4)	2.2 (5)		3.0 (3)	3.0 (2)	2.3 (6)	2.0 (4)	2.0 (4)	3.0 (3)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef	2.0 (3)	2.5 (2)		3.0 (2)	3.0 (2)	2.2 (5)	2.0 (1)	2.0 (1)	3.0 (1)		
Dairy		2.0 (1)						2.0 (1)			
Sheep	2.0 (1)	2.0 (1)		3.0 (1)		3.0 (1)	2.0 (2)	2.0 (2)	3.0 (1)		
Goat		2.0 (1)					2.0 (1)		3.0 (1)		
Mpumalang Balfour, Bal	a four Diereklini	iek									
Beef: 2, Shee											

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 3

Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Beef: 2, Sheep: 2

Hammanskraal, Themba Animal Clinic

Beef: 3, Dairy: 2, Goat: 2

**North West** 

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3
Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3

**Memel, Memel Veterinary Clinic** 

Beef: 3

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 3

**Mooi River, Mooirivier Vet Clinic** 

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

**Underberg, Underberg Veterinary Surgery** 

Beef: 3 Drought Sheep: 3

**Eastern Cape** 

**Graaff-Reinet, Camdeboo Veterinary Clinic** 

Sheep: 2, Goat: 2

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

Beef: 2, Sheep: 2
Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 2 Drought

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

**Northern Cape** 

Postmasburg, Postmasburg Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Protein deficiency										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.3 (4)	2.0 (2)		3.0 (3)	2.7 (3)	2.2 (5)	2.0 (4)	2.0 (3)	3.0 (2)	

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

Beef	2.5 (2)	2.0 (1)	3.0 (2)	2.7 (3)	2.2 (5)	2.0 (1)	2.0 (1)	3.0 (1)
Dairy							2.0 (1)	
Sheep	2.0 (2)		3.0 (1)			2.0 (2)	2.0 (1)	
Goat		2.0 (1)				2.0 (1)		3.0 (1)

### **Mpumalanga**

# **Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2

# Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 2

Gauteng

# Hammanskraal, Themba Animal Clinic

Beef: 2, Goat: 2
North West

# Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

# Ventersdorp, Ventersdorp Dierekliniek

Beef: 3
Free State

# Hoopstad, Hoopstad Dierekliniek

Beef: 3

# **Memel, Memel Veterinary Clinic**

Beef: 3

### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2

### Kwazulu-Natal

# **Bergville, Bergville Veterinary Clinic**

Beef: 2

# **Eshowe, Eshowe Veterinary Hospital**

Beef: 3

### **Mooi River, Mooirivier Vet Clinic**

Beef: 1

# Pietermaritzburg, Veterinary House Hospital

Beef: 2

# **Underberg, Underberg Veterinary Surgery**

Beef: 3 Drought

# **Eastern Cape**

# Aliwal North, Hertzogbrug Dierekliniek

Beef: 2, Sheep: 2

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

Sheep: 2, Goat: 2
Western Cape

# Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

**Northern Cape** 

# Postmasburg, Postmasburg Dierekliniek

Beef: 3, Goat: 3

# **Phosphate deficiency**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)		3.0 (1)	2.0 (1)				2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef		2.0 (1)		3.0 (1)	2.0 (1)				2.0 (1)
Gauteng									
Bronkhorsts	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Beef: 3									
Free State		. 1 . 1							
	loopstad Diere	ekliniek							
Beef: 2 Northern Ca	nno.								
	-	ra Dioroki	iniok						
Postmasbur Beef: 2	g, Postmasbu	ig Diereki	IIIIEK						
DCCI. Z									
Calcium o	deficiency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo						
Average				West	State	2.0 (3)	2.0 (1)	<b>Cape</b> 2.0 (1)	Саре
Average  Level of impo	2.0 (2) ortance scale: 1			West	State	2.0 (3) ut less than to	2.0 (1) en and 3 =	<b>Cape</b> 2.0 (1)	Саре
Average Level of impore reported  Beef	2.0 (2)			West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1)	2.0 (1) more than 1	Саре
Average Level of imporeported Beef Dairy	2.0 (2) ortance scale: 1 2.0 (1)			West	State	2.0 (3) ut less than to	2.0 (1) en and 3 =	<b>Cape</b> 2.0 (1)	Саре
Average  Level of imporeported  Beef  Dairy  Sheep	2.0 (2) ortance scale: 1 2.0 (1) 2.0 (1)			West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a	= one case		West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklin	= one case		West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Shee	2.0 (2)  portance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini pp: 2	= one case		West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheek Kwazulu-Na	2.0 (2)  portance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  pp: 2  ptal	= one case	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheet Kwazulu-Na Eshowe, Esl	2.0 (2)  portance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini pp: 2	= one case	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheek Kwazulu-Na Eshowe, Esl Beef: 2	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  howe Veterina	= one case	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheek Kwazulu-Nat Eshowe, Esl Beef: 2 Calcium defic	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  howe Veterina  iency in cattle o	= one case iek ry Hospita	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheek Kwazulu-Nat Eshowe, Esl Beef: 2 Calcium defic	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  howe Veterina	= one case iek ry Hospita	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Shee Kwazulu-Na Eshowe, Esl Beef: 2 Calcium defic Mooi River, Beef: 1	2.0 (2)  prtance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  pp: 2  atal  howe Veterina  iency in cattle of  Mooirivier Veterina	= one case iek ry Hospita n kikuyu : Clinic	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Shee Kwazulu-Na Eshowe, Esl Beef: 2 Calcium defic Mooi River, Beef: 1 Underberg,	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  howe Veterina  iency in cattle o	= one case iek ry Hospita n kikuyu : Clinic	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Shee Kwazulu-Na Eshowe, Esl Beef: 2 Calcium defic Mooi River, Beef: 1	2.0 (2)  prtance scale: 1  2.0 (1)  2.0 (1)  a four Diereklini pp: 2 ptal howe Veterina iency in cattle of Mooirivier Vet Underberg Ve	= one case iek ry Hospita n kikuyu : Clinic	e, 2 = more	West	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Shee Kwazulu-Na Eshowe, Esl Beef: 2  Calcium defic Mooi River, Beef: 1  Underberg, Dairy: 3  Eastern Cap	2.0 (2)  prtance scale: 1  2.0 (1)  2.0 (1)  a four Diereklini pp: 2 ptal howe Veterina iency in cattle of Mooirivier Vet Underberg Ve	= one case iek ry Hospita n kikuyu : Clinic terinary S	e, 2 = more	than one	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2, Sheek Kwazulu-Na Eshowe, Esl Beef: 2  Calcium defice Mooi River, Beef: 1  Underberg, Dairy: 3  Eastern Cap Alexandria, Beef: 2	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  thal  howe Veterina  iency in cattle of  Mooirivier Vet  Underberg Veter  ee  Alexandria Pla	= one case iek ry Hospita n kikuyu : Clinic terinary S	e, 2 = more	than one	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре
Average  Level of imporeported  Beef Dairy Sheep Mpumalang Balfour, Bal Beef: 2, Shee Kwazulu-Na Eshowe, Esl Beef: 2 Calcium defic Mooi River, Beef: 1 Underberg, Dairy: 3 Eastern Cap Alexandria, Beef: 2 Western Ca	2.0 (2)  ortance scale: 1  2.0 (1)  2.0 (1)  a  four Diereklini  p: 2  thal  howe Veterina  iency in cattle of  Mooirivier Vet  Underberg Veter  ee  Alexandria Pla	e one case  iek  ry Hospita  kikuyu Clinic terinary S	e, 2 = more	than one	State	2.0 (3) ut less than to  1.5 (2)	2.0 (1) en and 3 =	2.0 (1) more than 1	Саре

Dairy: 2									
Micro Nu	itritional P	roblem	S						
Copper d	eficiency								^
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 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef		1.0 (1)				2.0 (1)		2.0 (1)	
Sheep						-	1.0 (1)	2.0 (1)	
Beef: 2  Eastern Cap Graaff-Reine Sheep: 1  Western Cap Malmesbury Beef: 2, Shee  Zinc defice	e et, Camdeboo pe r, Malmesbury p: 2	Veterinar Dierehos	y Clinic pitaal	North	Free State	Kwazulu- Natal 2.0 (1)	Eastern Cape	Western Cape	Northern Cape
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)			
<b>Kwazulu-Na Underberg,</b> Beef: 2	tal Underberg Ve	terinary S	Surgery						
Selenium	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			3.0 (1)	2.0	2.7 (3)	1.0 (1)	2.0 (2)	3.0 (2)

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

Beef	2.0(1)					3.0 (2)		2.0 (1)	
Sheep				3.0 (1)	2.0 (1)	2.0 (1)		2.0 (1)	3.0 (1)
Goat							1.0(1)		3.0 (1)
Mpumalang	a						, ,		, /
Standerton,	Econovet								
Beef: 2									
North West									
	Christiana Die	rehospita	al						
Sheep: 3									
Free State									
	Ladybrand Die	erekliniek							
Sheep: 2									
Kwazulu-Na									
	dumeni Herd h	ealth							
Beef: 3, Shee	•								
	Underberg Ve	terinary S	urgery						
Beef: 3									
Eastern Cap			- II -						
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Western Ca									
	, Malmesbury	Dierenos	pitaai						
Beef: 2, Shee									
Northern Ca	•								
	u Dierekliniek								
Sheep: 3	Da atau a alas	D! l.l	!!-I-						
<b>Postmasbur</b> Goat: 3	g, Postmasbu	гд ріегекі	iniek						
Goat: 3									
Magnesiu	ım deficienc	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.0 (1)				
Free State									
	n, Wesselsbro	n Dierekli	niek						
Beef: 1									
Vitamin #	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	1.0 (2)			3.0 (1)	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	10 cases
Beef	1.0 (1)			3.0 (1)	2.5 (2)				
Sheep	1.0 (1)				3.0 (2)				
Mpumalang									
	four Diereklin	iek							
Beef: 1, Shee	•								
North West	Christiana Die	robocnita	al						
Beef: 3	Cilistialia Die	renospita	aı						
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee	-								
	gepoort Dierel	diniek Ve	nnootskap						
Beef: 2, Shee	ep: 3								
Vitamin E	31 deficienc	У							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							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								1.0(1)	
Sheep								1.5 (2)	
Goat							1.0 (1)	1.5 (2)	
							1.0 (1)		
Eastern Cap		Vatarina	ar Climia						
Graam-Rein Goat: 1	et, Camdeboo	veterinai	y Clinic						
Western Ca	ne								
	est, Beaufort \	West State	e Vet						
Sheep: 2	cocy Deductore								
Sheep: 2	B1 deficiencies								
Sheep: 2 Feedlots, Vit <b>Stellenbosc</b>		h Animal	Hospital						
Sheep: 2 Feedlots, Vit <b>Stellenbosc</b> Beef: 1	B1 deficiencies h, Stellenbosc		Hospital						
Sheep: 2 Feedlots, Vit <b>Stellenbosc</b> Beef: 1 Nguni bull - 6	B1 deficiencies		Hospital						
Sheep: 2 Feedlots, Vit Stellenbosc Beef: 1 Nguni bull - 6 Sheep: 1	B1 deficiencies h, Stellenbosc encephalomalaci	a							
Sheep: 2 Feedlots, Vit Stellenbosc Beef: 1 Nguni bull - 6 Sheep: 1 Confirmed co	B1 deficiencies h, Stellenbosc	a sheep on	pastures.						

**Abortions** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.0 (2)	2.3 (8)	1.8 (4)		1.8 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	LO cases
Beef	2.0 (1)			2.0 (1)	2.2 (6)	2.0 (3)		2.0 (1)	
Dairy								1.7 (3)	
Sheep				2.0 (1)	2.5 (2)	1.0 (1)		2.0 (1)	
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 2									
<b>North West</b>									
Christiana,	Christiana Die	rehospita	al						
Beef: 2, Shee	ep: 2								
Free State									
<b>Bloemfonte</b>	in, Dr Stephan	Wessels							
Beef: 2									
Frankfort, F	rankfort Diere	kliniek							
Beef: 2									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 2									
	<b>Ladybrand Die</b>	erekliniek							
Beef: 2									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 2, Shee									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd h	nealth							
Beef: 1		OI: .							
	ongola Animal	Clinic							
Sheep: 1	Handaule 24								
	Underberg Ve	terinary S	urgery						
Beef: 3									
Western Ca		oonitol							
	orge Animal H	ospitai							
Dairy: 2	. Malusl	Diameter							
	y, Malmesbury	Dierenos	pitaai						
	y: 2, Sheep: 2	h Ami	Uaan!tal						
	h, Stellenbosc	n Animai	поѕрітаі						
Dairy: 1									

**Stillbirths** 

ROTINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (6)	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					2.5 (4)	2.0 (1)			
Sheep					2.5 (2)				
Free State									
Buitfontein, Beef: 2, Shee	Greylingsrust	Dierespr	eekkamer						
	rankfort Diere	kliniek							
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3, Shee	ep: 3 <b>Kroonstad Die</b>	robosnita	al						
Beef: 2	KI OOIIStau Die	геноѕрна	aı						
Kwazulu-Na	ital								
	ergville Veteri	nary Clini	С						
Beef: 2									
Abscesse	s								_
DDOVINCE				North	Free	Kwazulu-	Eastern	Western	Northern
LKONINCE	Mpumalanga	Gauteng	гітроро	West	State	Natal	Cape	Cape	Cape
Average	1.0 (3)		1.0 (1)	West				Cape	
Average		2.0 (2)	1.0 (1)	West 2.5 (2)	2.0 (6)	Natal 2.7 (3)	<b>Cape</b> 2.0 (1)	1.0 (3)	Саре
Average Level of impo	1.0 (3)	2.0 (2)	1.0 (1)	West 2.5 (2)	2.0 (6)	Natal 2.7 (3)	<b>Cape</b> 2.0 (1)	1.0 (3)	Саре
Average  Level of imporeported	1.0 (3) ortance scale: 1	2.0 (2) = one case	1.0 (1) e, 2 = more	West 2.5 (2)	2.0 (6) e case b	Natal  2.7 (3)  ut less than to	<b>Cape</b> 2.0 (1)	1.0 (3) more than 1.0 (1)	Саре
Average  Level of impore reported  Beef	1.0 (3) ortance scale: 1 1.0 (1)	2.0 (2) = one case	1.0 (1) e, 2 = more	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3)	Саре
Average  Level of impore reported  Beef  Sheep  Goat  Mpumalang	1.0 (3)  ortance scale: 1  1.0 (1)  1.0 (2)	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Саре
Average  Level of impore reported  Beef  Sheep  Goat  Mpumalang Balfour, Bal	1.0 (3)  ortance scale: 1  1.0 (1)  1.0 (2)  a  four Diereklin	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Саре
Average  Level of impore reported  Beef  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee	1.0 (3)  prtance scale: 1  1.0 (1)  1.0 (2)  a  four Diereklin  pp: 1	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Саре
Average  Level of impore reported  Beef  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee	1.0 (3)  ortance scale: 1  1.0 (1)  1.0 (2)  a  four Diereklin	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Саре
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee Bethal, Beth	1.0 (3)  prtance scale: 1  1.0 (1)  1.0 (2)  a  four Dierekling pp: 1  nal Diereklinie	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more 1.0 (1)	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Саре
Average  Level of imporeported  Beef  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Shee Bethal, Beth Sheep: 1 Gauteng Muldersdrif	1.0 (3)  prtance scale: 1  1.0 (1)  1.0 (2)  a  four Diereklin  pp: 1	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more 1.0 (1)	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Cape
Average  Level of impore reported  Beef  Sheep  Goat  Mpumalang Balfour, Bal Beef: 1, Sheet Bethal, Beth Sheep: 1 Gauteng Muldersdrif Beef: 3	1.0 (3)  prtance scale: 1  1.0 (1)  1.0 (2)  a  four Dierekling pp: 1  nal Diereklinie	2.0 (2) = one case 2.0 (2)	1.0 (1) e, 2 = more 1.0 (1)	2.5 (2)	2.0 (6) e case b  1.7 (3) 2.3	2.7 (3) ut less than to	2.0 (1) en and 3 =	1.0 (3) more than 1.0 (1)	Cape

Beef: 1									
Limpopo									
Modimolle,	Kranskop Dier	ekliniek							
Beef: 1									
One bull with	abscess on hea	d							
<b>North West</b>									
Stella, Stell	a Dierekliniek								
Sheep: 3									
	p, Ventersdorp	Diereklir	iek						
Sheep: 2	,								
Free State									
	, Greylingsrust	Dierespr	eekkamer						
Beef: 1, Shee		. 2 толоор.							
	loopstad Diere	kliniek							
Beef: 3, Shee		JAHHUK							
	Kroonstad Die	rohocnita	l						
Sheep: 2	Ki oonstaa Die	i ciiospita	aı .						
	Ladybrand Die	rokliniok							
Beef: 1	Lauybi aliu Die	ei ekiiiilek							
Kwazulu-Na	ata l								
		name Clini	_						
Beef: 2	ergville Veteri	nary Clini	L .						
	Umdauhaum Va	tavina							
	Underberg Ve	terinary S	urgery						
Beef: 3, Shee	•								
Eastern Cap									
	et, Graaff Reir	iet Veteri	nary Clinic	:					
Sheep: 2									
Western Ca	•		_						
	, Oudtshoorn	Diereklini	ek						
Goat: 1									
Corynebacter									
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
	d of multiple live	r abscesse	s.						
Goat: 1									
Abscesse	s in general								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North				Western	Northern
110111101	paa.aga	Caucong	popo	West	State	Natal	Cape	Cape	Cape
	2.0.(2)	2.2 (5)			2.2	2.0.(2)	1.0.(1)	0.0.(0)	
Average	2.0 (2)	2.2 (5)			(6)	2.0 (2)	1.0 (1)	2.3 (3)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported									
					2.5				
Beef	2.0(1)	3.0 (1)			2.5	2.0 (2)		2.0(1)	
	<b>2.</b> 0 (1)	(1)			(2)	(2)		(1)	
					1.0				
Dairy								3.0 (1)	
					(1)				
Choor	2.0 (1)	2.0.(2)			2.3			2.0.(1)	
Sheep	2.0 (1)	2.0 (2)			(3)			2.0 (1)	
					(3)				

Cont		2.0.(2)					1.0 (1)		
Goat		2.0 (2)					1.0 (1)		
Mpumalang		.   .   ! !   .							
	Longtom Dier	екипіек							
Beef: 2, Shee	:p: 2								
Gauteng									
	spruit, Kerkstr	aat Dierel	kliniek						
Sheep: 1, Go			_						
	raal, Themba A	Animal Cli	nic						
Beef: 3, Shee	ep: 3, Goat: 3								
Free State									
	Greylingsrust	Dierespr	eekkamer						
Beef: 2, Shee	•								
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	nekal Dierekli	niek							
Dairy: 1									
	gepoort Dierek	diniek Ve	nnootskap						
Sheep: 2									
Kwazulu-Na	ntal								
	ergville Veteri	nary Clini	С						
Beef: 2									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Eastern Cap	e								
<b>Graaff-Rein</b>	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Western Ca	ре								
Malmesbury	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy	y: 3, Sheep: 2								
Bladder s	tones								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	1.3 (3)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases
Beef				1.0 (1)	(1)				
Sheep					1.5 (2)				
North West									
Beef: 1	Reneke, Buffel	doorn Die	erekliniek	SR					
Free State									
	rankfort Diere	kliniek							
Sheep: 2									
Senekal, Se	nekal Dierekli	niek							
Beef: 1, Shee	ep: 1								

Blindness									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (7)	1.5 (2)	1.0 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef					2.0 (4)	2.0 (1)			
Dairy						1.0(1)		2.0 (1)	
Sheep					2.0 (3)			2.0 (1)	
Goat							1.0 (1)		
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Kroonstad Die	rehospita	al						
Beef: 2		_							
	nekal Dierekli	niek							
Beef: 1		-I!!I- \/							
	gepoort Dierel	kiiniek vei	nnootskap	)					
Beef: 2, Shee	p:	n Diorokli	niok						
Sheep: 1	ii, weesseisbio	II DICIEKII	IIICK						
Kwazulu-Na	ital								
	ergville Veteri	narv Clini	C C						
Beef: 2									
Dundee, End	dumeni Herd h	nealth							
Dairy: 1									
Eastern Cap	е								
<b>Graaff-Rein</b>	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Western Ca									
	(WC), Heidelb	erg Dierel	diniek						
Sheep: 2									
	, Malmesbury	Dierehos	pitaal						
Dairy: 2									

Bloat									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.4 (5)		1.0 (1)		2.0 (2)		1.5 (4)	

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

Beef	2.0(1)	1.5 (2)		1.0 (1)		2.0 (2)		2.0 (1)	
Dairy		1.0(1)						1.3 (3)	
Sheep	2.0(1)	1.0(1)						_	
Goat	( )	2.0 (1)							
Mpumalang	a	2.0 (1)							
	Longtom Dier	ekliniek							
Sheep: 2									
	elspruit Anima	al Hospita							
Beef: 2	•	•							
Gauteng									
Bronkhorsts	pruit, Kerkstr	aat Dierel	kliniek						
Beef: 1, Dairy	v: 1								
Hammanski	aal, Themba A	Inimal Cli	nic						
Beef: 2, Goat	: 2								
Pretoria, On	derstepoort A	cademic I	Hospital ar	nd Produ	uction A	Animal Clinic	:		
Sheep: 1									
North West									
	, Bergbos Dier	ekliniek							
Beef: 1									
Kwazulu-Na									
	dumeni Herd h	ealth							
Beef: 2									
	zburg, Veterin	ary House	Hospital						
Beef: 2									
Western Ca									
	, Invitrotech								
Dairy: 1									
One case	. Malmaahuu	Diarahaa	nitaal						
	, Malmesbury	Dierenos	pitaai						
Beef: 2, Dairy	. ∠ h, Stellenboscl	h Animal I	Hocnital						
Dairy: 1	ii, Stellelibosti	ii Aililliai	поэрна						
	t (sheep and	d goat)							^
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 to	en and 3 =	more than :	10 cases
Sheep								2.0 (1)	
Western Ca	pe								
	(WC), Heidelbe	erg Dierel	kliniek						
Blue udd	er								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average		2.0 (1)			2.7 (3)	2.0 (1)	1.0 (1)	2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than 1	10 cases
Dairy		2.0 (1)				2.0 (1)			
Sheep		` '			2.7 (3)		1.0 (1)	2.0 (2)	
Gauteng						<del>y</del>		<u> </u>	
	spruit, Kerkstr	aat Dierel	kliniek						
Dairy: 2 Free State									
	rankfort Diere	kliniek							
Sheep: 3									
	Kroonstad Die	rehospita	al						
Sheep: 3 Villiers, Wile	gepoort Dierek	diniek Ve	nnootskan	)					
Sheep: 2	дероог с Біеген	diffick ve	шоськар						
Kwazulu-Na									
	dumeni Herd h	ealth							
Dairy: 2 Eastern Cap	ne								
	et, Camdeboo	Veterinar	y Clinic						
Sheep: 1									
Western Ca	pe Iledon Dierekli	niok							
Sheep: 2	iledoli Dielekii	IIICK							
Heidelberg	(WC), Heidelb	erg Dierel	kliniek						
Sheep: 2									
Diarrhoea	a								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (8)	2.3 (4)		2.5 (4)	2.7 (26)	2.3 (15)	1.0 (1)	2.8 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	l0 cases
Beef	2.4 (5)	2.5 (2)		2.5 (2)	2.8 (13)	2.5 (8)	1.0 (1)	2.0 (1)	
Dairy					2.5 (2)	2.0 (1)		3.0 (2)	
Sheep	2.5 (2)	2.0 (1)		2.5 (2)	2.7 (11)	2.0 (4)		3.0 (1)	
Goat	2.0 (1)	2.0 (1)				2.0 (2)			
Mpumalang Balfour, Bal Beef: 1	a four Diereklin	iek							

Grootvlei, Grootvlei Dierekliniek Beef: 2 Lydenburg, Longtom Dierekliniek Beef: 3, Sheep: 2 Middelburg, Middelburg Dierehospitaal Beef: 3, Sheep: 3 Middelburg, Neil Fourie Veeartsenydienste Beef: 3 Calves **Nelspruit, Nelspruit Animal Hospital** Goat: 2 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Hammanskraal, Themba Animal Clinic Beef: 3, Sheep: 2, Goat: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2, Sheep: 2 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 3, Sheep: 3 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3, Sheep: 3 Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 2, Sheep: 3 Frankfort, Frankfort Dierekliniek Beef: 3, Sheep: 2 Harrismith, Harrismith Dierehospitaal Beef: 3, Sheep: 3 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 3, Dairy: 3, Sheep: 3 **Memel, Memel Veterinary Clinic** Beef: 3, Sheep: 3 **Reitz, Riemland Dierehospitaal** Beef: 3 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 3 Vrede, Vrede Dierehospitaal Beef: 3 Calves Wesselsbron, Wesselsbron Dierekliniek Beef: 1, Sheep: 1 Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 3 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2

**Dundee, Endumeni Herd health** 

Beef: 3										
	tcourt Vet Clir	nic								
	y: 2, Sheep: 2, 0									
	Mooirivier Vet									
Beef: 2, Shee										
	zburg, Veterin	arv House	Hospital							
Beef: 2	Lburg, veterm	ary mouse	riospicai							
	Underberg Ve	terinary S	urgery							
Beef: 3, Shee		cormary o	ui gei y							
Vryheid, Vryheid Privaat Veeartse										
Beef: 3										
Eastern Cape										
Uitenhage, Uitenhage Dierehospitaal										
Beef: 1										
Western Ca	pe									
	erberg Diereh	ospitaal [	Darling							
Dairy: 3		<b>-</b>								
	y, Malmesbury	Dierehos	pitaal							
	y: 3, Sheep: 3									
<b>Epididym</b>	iitis								_	
PROVINCE	Mpumalanga	Gauteng	Limpono	North		Kwazulu-	Eastern	Western	Northern	
INOVINCE	ripumalanga	Guuteng	Limpopo	West	State	Natal	Cape	Cape	Cape	
					2.0					
Average					(2)					
					(2)					
Lovel of importance cools, 1 — one case, 2 — more than one case but less than too and 2 — more than 10										
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases										
	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	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than	10 cases	
reported	ortance scale: 1	= one case	e, 2 = more	than on	2.0	ut less than t	en and 3 =	more than :	10 cases	
	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than :	10 cases	
reported	ortance scale: 1	= one case	e, 2 = more	than on	2.0	ut less than t	en and 3 =	more than	10 cases	
Sheep Free State					2.0	ut less than t	en and 3 =	more than	10 cases	
reported  Sheep  Free State Villiers, Wil	gepoort Dierel				2.0	ut less than t	en and 3 =	more than	10 cases	
Sheep Free State Villiers, Will Sheep: 2	gepoort Dierel	kliniek Ve	nnootskap		2.0	ut less than t	en and 3 =	more than	10 cases	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro		kliniek Ve	nnootskap		2.0	ut less than t	en and 3 =	more than	10 cases	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2	gepoort Dierel n, Wesselsbro	kliniek Ve	nnootskap		2.0	ut less than t	en and 3 =	more than	10 cases	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro	gepoort Dierel n, Wesselsbro	kliniek Ve	nnootskap		2.0	ut less than t	en and 3 =	more than	10 cases	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2	gepoort Dierel n, Wesselsbro	kliniek Ve	nnootskap		2.0	ut less than t	en and 3 =	more than	10 cases	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli	nnootskap niek	North	2.0	ut less than t	Eastern	western	10 cases  A Northern	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc	gepoort Dierel n, Wesselsbro	kliniek Ve n Dierekli	nnootskap niek		2.0 (2)				^	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli	nnootskap niek	North	2.0 (2)	Kwazulu-	Eastern	Western	^ Northern	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli	nnootskap niek	North	2.0 (2) Free State	Kwazulu- Natal	Eastern	Western Cape	^ Northern	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli	nnootskap niek	North	2.0 (2) Free State	Kwazulu-	Eastern	Western	^ Northern	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli	nnootskap niek	North	2.0 (2) Free State	Kwazulu- Natal	Eastern	Western Cape	^ Northern	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc PROVINCE	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State	Kwazulu- Natal	Eastern Cape	Western Cape  1.5 (2)	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average	gepoort Dierel n, Wesselsbro er	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State	Kwazulu- Natal	Eastern Cape	Western Cape  1.5 (2)	Northern Cape	
Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2 Eye Canc PROVINCE	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State 1.7 (6) e case b	Kwazulu- Natal	Eastern Cape	Western Cape  1.5 (2)	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average  Level of imporeported	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape	Western Cape  1.5 (2) more than	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2)  Free State  1.7 (6)  e case b	Kwazulu- Natal	Eastern Cape	Western Cape  1.5 (2)	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average  Level of imporeported	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State 1.7 (6) e case b 1.5 (2)	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape	Western Cape  1.5 (2) more than	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average  Level of imporeported	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State 1.7 (6) e case b 1.5 (2) 1.7	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape	Western Cape  1.5 (2)  more than :	Northern Cape	
reported  Sheep  Free State Villiers, Will Sheep: 2 Wesselsbro Sheep: 2  Eye Canc  PROVINCE  Average  Level of imporeported  Beef	gepoort Dierel n, Wesselsbro er Mpumalanga	kliniek Ve n Dierekli Gauteng	nnootskap niek Limpopo	North	2.0 (2) Free State 1.7 (6) e case b 1.5 (2)	Kwazulu- Natal 2.0 (1) ut less than t	Eastern Cape	Western Cape  1.5 (2) more than	Northern Cape	

2.0 (1)

**Free State** 

Clocolan, Clocolan Dierekliniek

Dairy: 2, Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Dairy: 2

Senekal, Senekal Dierekliniek

Beef: 1, Dairy: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

**Western Cape** 

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Eye infections										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.2 (10)	2.4 (5)		2.7 (6)	2.6 (20)	2.0 (10)	2.0 (4)	2.2 (6)		

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

Beef	2.3 (7)	3.0 (2)	2.6 (5)	2.6 (11)	2.0 (6)	3.0 (1)	2.3 (3)	
Dairy				2.5 (2)	2.5 (2)		2.0 (2)	
Sheep	2.0 (3)	2.0 (1)	3.0 (1)	2.4 (7)		2.0 (2)	2.0 (1)	
Goat		2.0 (2)			1.5 (2)	1.0 (1)		

**Mpumalanga** 

**Balfour, Balfour Dierekliniek** 

Beef: 2, Sheep: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Middelburg, Middelburg Dierehospitaal

Beef: 1

Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

**Nelspruit, Nelspruit Animal Hospital** 

Beef: 3

**Standerton, Econovet** 

Beef: 3, Sheep: 2

Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 3, Sheep: 2, Goat: 2 Hammanskraal, Themba Animal Clinic Beef: 3, Goat: 2 **North West Brits, Brits Dierekliniek** Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Rustenburg, Bergbos Dierekliniek Ventersdorp, Ventersdorp Dierekliniek Beef: 3 Severe conjuctivitis, worse than previous years **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 3, Sheep: 3 Harrismith, Harrismith Dierehospitaal Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 3, Sheep: 2 Ladybrand, Ladybrand Dierekliniek Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 3 **Reitz, Riemland Dierehospitaal** Beef: 2, Sheep: 2 Senekal, Senekal Dierekliniek Beef: 2, Dairy: 2, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 **Vrede, Vrede Dierehospitaal** Beef: 3 Wesselsbron, Wesselsbron Dierekliniek Beef: 3, Sheep: 3 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 2, Dairy: 2 **Mooi River, Mooirivier Vet Clinic** Mtubatuba, Mtubatuba Animal Clinic Beef: 2, Goat: 2 Pongola, Pongola Animal Clinic

Beef: 1, Goat: 1

Dairy: 3

**Underberg, Underberg Veterinary Surgery** 

	yheid Privaat \	/eeartse								
Beef: 2										
Eastern Cap										
	Alexandria Pla	atteland S	preekkam	er						
Beef: 3										
	et, Camdeboo	Veterinar	y Clinic							
Sheep: 1										
Graaff-Reinet, Graaff Reinet Veterinary Clinic										
Sheep: 3 Uitenhage, Uitenhage Dierehospitaal										
	Uitennage Die	renospita	aı							
Goat: 1 Western Cape										
	pe Iledon Dierekli	iniak								
Dairy: 1	iledoli Dielekii	IIIICK								
	orge Animal H	osnital								
Beef: 3	orge Ammar m	ospitai								
	y, Malmesbury	Dierehos	nitaal							
	y: 3, Sheep: 2	210.000	produ.							
	h, Stellenbosc	h Animal	Hospital							
Beef: 2	•		•							
Joint Ill									^	
									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.0 (1)			1.5 (2)	1.6 (5)	2.0 (2)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases	
Beef	2.0 (1)			1.5 (2)	(3)	2.0 (2)				
Sheep					2.0 (2)		2.0 (1)			
Mpumalang										
	Longtom Dier	ekliniek								
Beef: 2										
North West			•							
	Christiana Die	renospita	aí							
Beef: 2	Danaka Duff-	ldoor- D!-	ualdinial-	C D						
Beef: 1	Reneke, Buffe	IUUUFN DIE	пекипіек :	5K						
Free State										
	Graylingeruck	Dierocar	aakkamer							
Bultfontein, Greylingsrust Dierespreekkamer Sheep: 2										
Clocolan, Clocolan Dierekliniek										
Beef: 1										
Frankfort, Frankfort Dierekliniek										
Beef: 2										
	Kroonstad Die	rehospita	al							
Sheep: 2										
	n, Wesselsbro	n Dierekli	niek							
	-									

Beef: 1									
Kwazulu-Na	tal								
Beraville, Be	ergville Veteri	narv Clini	C						
Beef: 2		,							
	dumeni Herd h	nealth							
Beef: 2									
Eastern Cap	e								
	et, Graaff Reir	net Veteri	narv Clinic	:					
Sheep: 2									
Lameness/Foot Problems									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	1.8 (6)		3.0 (2)	1.7 (9)	2.0 (3)		2.2 (5)	
					(2)				
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 7				
Beef	1.3 (4)	2.0(2)		3.0(1)	1.7	1.5 (2)		1.5 (2)	
	. /	\ /		, í	(7)			· /	
Dairy						3.0 (1)		3.0 (2)	
					1.5				
Sheep	2.0 (1)	2.0 (2)		3.0 (1)	(2)			2.0 (1)	
Goat		1.5 (2)							
Mpumalang									
	four Diereklin	iek							
Beef: 1									
	rootvlei Diere	kliniek							
Beef: 1									
	Longtom Dier	ekliniek							
Beef: 2, Shee		Niawah aan	:+1						
	, Middelburg [	легепоsp	ılddi						
Beef: 1									
Gauteng Hammanski	aal, Themba A	nimal CI:	nic						
Beef: 3, Shee		ammar Cli	iiiC						
	p. 1, Goat. 2 derstepoort A	cademic I	Hosnital a	nd Prodi	uction A	Animal Clinia	_		
Beef: 1, Shee		. Caucillic I	. Jopitul al				-		
North West	p. 0, 00uti 1								
	Christiana Die	rehospita	al						
Beef: 3, Shee									
Free State									
Bloemfontein, Dr Stephan Wessels									
Beef: 2									
Bultfontein, Greylingsrust Dierespreekkamer									
Beef: 2									
	rankfort Diere	kliniek							
Beef: 2									
Harrismith, Harrismith Dierehospitaal									
Beef: 1, Shee	p: 1								

**Kroonstad, Kroonstad Dierehospitaal** Beef: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 1, Sheep: 2
Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

**Mooi River, Mooirivier Vet Clinic** 

Beef: 1

**Underberg, Underberg Veterinary Surgery** 

Dairy: 3

Western Cape

**George, George Animal Hospital** 

Dairy: 3

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2

**Worcester, Durban Straat Dierekliniek Worcester** 

Beef: 1

Lung infection									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.0 (2)		2.7 (3)	2.2 (15)	1.8 (8)	1.7 (3)	2.4 (11)	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	1.7 (3)	1.0 (1)	2.5 (2)	2.3 (6)	1.7 (6)		2.3 (3)	2.0 (1)
Dairy							2.7 (3)	
Sheep		1.0 (1)	3.0 (1)	2.1 (9)	2.0 (1)	1.5 (2)	2.2 (5)	
Goat					2.0 (1)	2.0 (1)		

**Mpumalanga** 

**Balfour, Balfour Dierekliniek** 

Beef: 2

**Bethal, Bethal Dierekliniek** 

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1, Sheep: 1
North West

**Brits, Brits Dierekliniek** 

Beef: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

**Free State Bultfontein, Greylingsrust Dierespreekkamer** Clocolan, Clocolan Dierekliniek Beef: 3, Sheep: 3 Frankfort, Frankfort Dierekliniek Beef: 3 Harrismith, Harrismith Dierehospitaal Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2 Ladybrand, Ladybrand Dierekliniek Beef: 2, Sheep: 2 Philippolis, Rowelsfontein veearts Spreekkamer Sheep: 3 Reitz, Riemland Dierehospitaal Beef: 2, Sheep: 2 Senekal, Senekal Dierekliniek Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 2, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 **Kwazulu-Natal** Bergville, Bergville Veterinary Clinic Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 **Dundee, Endumeni Herd health** Beef: 1 **Mooi River, Mooirivier Vet Clinic** Beef: 1 **Newcastle, Ncanduvet Newcastle** Pietermaritzburg, Veterinary House Hospital Beef: 3 **Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Sheep: 2, Goat: 2 **Uitenhage, Uitenhage Dierehospitaal** Sheep: 1 **Western Cape Beaufort West, Beaufort West State Vet** Sheep: 2 Around feed troughs Caledon, Caledon Dierekliniek Dairy: 2 **Darling, Tygerberg Dierehospitaal Darling** Dairy: 3 George, George Animal Hospital Sheep: 3 Malmesbury, Groenkloof Dierekliniek Beef: 2 Calves bought in, a few deaths due to pasteurellosis

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3, Sheep: 2 **Oudtshoorn, Ostrimed** Beef: 3 Pneumonia severe after short thunderstorm dust – farm feedlot system, peracute mortalities Sheep: 3 Pneumonia severe after short thunderstorm dust – farm feedlot system, peracute mortalities **Worcester, Durban Straat Dierekliniek Worcester** Sheep: 1 **Northern Cape** Postmasburg, Postmasburg Dierekliniek Beef: 2 **Mastitis in general** North Free Kwazulu-**Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** Natal West State Cape Cape Cape **Average** 1.0(2) 1.0(1)3.0(2)2.0(5)1.5 (2) 2.7(6)(6)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 **Beef** 1.0(1)1.0(1)3.0(1)1.8(4)2.0(1)(3) 3.0 2.8(5)**Dairy** 3.0(1)(1) 3.0(1)Sheep 1.0(1)1.5 (2) **Mpumalanga Balfour, Balfour Dierekliniek** Beef: 1, Sheep: 1 Gauteng Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 3 Harrismith, Harrismith Dierehospitaal Sheep: 2 Kroonstad, Kroonstad Dierehospitaal Beef: 2, Sheep: 3 Senekal, Senekal Dierekliniek Viljoenskroon, Viljoenskroon Dierekliniek Beef: 1

**Kwazulu-Natal** 

Beef: 1

**Bergville, Bergville Veterinary Clinic** 

Bergville, Tugela Vet Clinic

Beef: 2 Pongola, Pongola Animal Clinic Beef: 2 Underberg, Underberg Veterinary Surgery Dairy: 3 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic Sheep: 1											
Beef: 2 Underberg, Underberg Veterinary Surgery Dairy: 3 Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic											
Underberg, Underberg Veterinary Surgery  Dairy: 3  Eastern Cape  Graaff-Reinet, Camdeboo Veterinary Clinic											
Dairy: 3  Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic											
Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic											
Graaff-Reinet, Camdeboo Veterinary Clinic											
•											
Sheep: 1											
•											
Graaff-Reinet, Graaff Reinet Veterinary Clinic											
Sheep: 2											
Western Cape											
Caledon, Caledon Dierekliniek											
Dairy: 3											
Darling, Tygerberg Dierehospitaal Darling  Dairy: 3											
George, George Animal Hospital											
Dairy: 3											
Malmesbury, Invitrotech											
Dairy: 2											
Malmesbury, Malmesbury Dierehospitaal											
Beef: 2, Dairy: 3											
Navel III	^										
PROVINCE Mnumalanga Gauteng Limnono	orthern ape										
Average 1.5 (2) 2.0 (1)											
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 c reported	cases										
Beef 1.5 (2) 1.0 (2)											
2.0 (1)											
Sheep 2.0 (1) 1.0 (1)											
Mpumalanga											
Balfour, Balfour Dierekliniek											
Beef: 1											
Lydenburg, Longtom Dierekliniek											
Beef: 2											
Free State											
Harrismith, Harrismith Dierehospitaal											
Beef: 1											
Senekal, Senekal Dierekliniek											
Beef: 1											
Viljoenskroon, Viljoenskroon Dierekliniek											
Sheep: 2											
Kwazulu-Natal											
Newcastle, Ncanduvet Newcastle											
Sheep: 1											

### **Western Cape Darling, Tygerberg Dierehospitaal Darling** Dairy: 2 Red gut (Sheep - torsion of the gut) North Free Kwazulu-**Eastern** Western Northern PROVINCE Mpumalanga Gauteng Limpopo West **State** Natal Cape Cape Cape **Average** 1.5 (2) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported Sheep 1.0(1)Goat 2.0(1)**Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Sheep: 1, Goat: 2 **Trauma** Kwazulu-North Free **Eastern** Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 3.0 **Average** 2.0(1)(1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 3.0 **Beef Dairy** 2.0(1)**Free State** Clocolan, Clocolan Dierekliniek Beef: 3 **Western Cape** Malmesbury, Invitrotech Dairy: 2 Seven cases **Downer** Kwazulu-Eastern Western Northern North Free **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 1.8 1.0(2)2.0(4)3.0 (1) 2.0(2)3.0(1) 2.5 (2) **Average** (6)

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

Beef	1.0 (2)	2.0 (3)		1.8	3.0 (1)	3.0 (1)		2.5 (2)
DCCI	1.0 (2)	2.0 (3)		(5)	3.0 (1)	3.0 (1)		2.3 (2)
Dairy						1.0(1)	3.0 (1)	
Sheep		2.0 (1)		2.0 (1)				
Mpumalang	a							
Grootvlei, G	rootvlei Diere	ekliniek						
Beef: 1								
Lydenburg,	Longtom Die	rekliniek						
Beef: 1								
Gauteng								
<b>Bronkhorst</b> :	spruit, Kerkst	raat Dierekli	iniek					
Beef: 2, Shee	ep: 2							
	raal, Themba	<b>Animal Clini</b>	С					
Beef: 2	<u> </u>							
Pretoria, Or	nderstepoort /	Academic Ho	ospital and Produ	ction A	nimal Clinic	}		
Beef: 2								
Nine cases, p	rotein, energy i	malnutrition						
Free State	· <u> </u>							
Bultfontein	, Greylingsrus	t Dierespree	ekkamer					
Beef: 1, Shee								
	rankfort Dier	ekliniek						
Beef: 2								
Harrismith,	Harrismith Di	ierehospitaa	ı					
Beef: 3								
Kroonstad,	Kroonstad Die	erehospitaal						
Beef: 2								
Wesselsbro	n, Wesselsbro	n Diereklini	ek					
Beef: 1	<u> </u>							
Kwazulu-Na	atal							
Bergville, B	ergville Veter	inary Clinic						
Beef: 3								
Eastern Cap	е							
Adelaide, A	delaide Veteri	inary Clinic						
Beef: 3								
<b>Graaff-Rein</b>	et, Camdeboo	Veterinary	Clinic					
Dairy: 1	<u> </u>							
Western Ca	pe							
	y, Invitrotech							
Dairy: 3								
18 cases								
Northern Ca	аре							
	rg, Postmasbu	ırg Diereklin	niek					
Beef: 2								
	Jpington Veea	rtsenyklinie	k					
Beef: 3		•						
Other								^

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

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

Beef 1.0 (1) 2.0 (1)

3.0 (1)

# Gauteng

# Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1

Rumen impaction

### **North West**

# **Brits, Brits Dierekliniek**

Beef: 2

# **Western Cape**

# Malmesbury, Invitrotech

Dairy: 3

146 cows culled (NFI) Too low netto farming income

# Wet carcases Yellow cascses at abattoir PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Rastern Cape Northern Cape Average Average

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

Sheep 2.5 (2)

# **Northern Cape**

# De Aar, De Aar Veterinary Clinic

Sheep: 2

Mainly in poor condition sheep

# **Upington, Upington Veeartsenykliniek**

Sheep: 3

Stress, sheep transported from Namibia, takes too long. Slaughtered on arrival.

# **Metabolic Diseases**

Acidosis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		2.0 (1)		2.0 (1)	2.1 (9)	2.5 (2)	2.0 (1)	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

Beef	2.0 (1)	2.5 (2)	2.5 (2)	2.3 (3)	
Dairy		1.0 (1)		2.0 (2)	

Sheep		2.2 (6)		2.2 (5)
Goat	2.0 (1)	(0)	2.0 (1)	1.0 (1)
Gauteng				-10 (-)
	raal, Themba Animal Clir	ic		
Goat: 2	idai, illeliida Allilliai Cili			
North West				
	Dierekliniek			
Beef: 2	Dierekiiiiek			
Free State				
	, Greylingsrust Dierespre	ekkamer		
Sheep: 1	, dreyningsrust Dierespre	errainei		
	locolan Dierekliniek			
Sheep: 2	ocolali Dielekillilek			
	Dosvrystaat Diere Produ	rte		
Dairy: 1	Dosvi ystaat Diele Floud	ite		
	Hoopstad Dierekliniek			
Beef: 3, Shee				
	Ladybrand Dierekliniek			
Sheep: 3	Ladybrand Dierekinnek			
	Rowelsfontein veearts S	nreekkamer		
Sheep: 2	Novelsiontein veedits s	JI CERROTTICI		
	land Dierehospitaal			
Beef: 2	idia Dici cirospicadi			
	n, Wesselsbron Diereklir	iek		
Sheep: 2	ii, ivesseission bierekiii			
Kwazulu-Na	atal			
	ergville Veterinary Clinic			
Beef: 2	ergyme recentary entitle			
	howe Veterinary Hospita			
Beef: 3	nove vetermary mospita			
Eastern Cap	ne e			
	Witelsbos Veterinary Co	sulting Rooms		
Goat: 2	,,			
Western Ca	pe			
	est, Beaufort West State	Vet		
Sheep: 2				
Poor adaptat	ion			
	(WC), Heidelberg Dierek	iniek		
Sheep: 2	` "			
· · · · · · · · · · · · · · · · · · ·	y, Malmesbury Dierehosi	itaal		
Beef: 2, Dair				
Oudtshoorn				
Goat: 1	•			
Piketberg, I	Piketberg Dierehospitaal			
Beef: 2				
Chronic acido	osis, grazing on harvested fi	elds		
Sheep: 2				
	osis, grazing on harvested fi	elds		
	h, Stellenbosch Animal I			
Dairy: 1	,	•		
	, Vredenburg Dierehosp	taal		
Beef: 3, Shee				
	Durban Straat Diereklini	ek Worcester		

Sheep: 2												
Displaced	d abomasun	n							^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average					1.0 (1)	3.0 (2)		2.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported												
Beef					1.0 (1)							
Dairy						3.0 (2)		2.0(1)				
Free State												
	nel Veterinary	Clinic										
Beef: 1	<b>_</b>											
Kwazulu-Na	atal											
Dundee, En	dumeni Herd l	nealth										
Dairy: 3												
Underberg,	<b>Underberg Ve</b>	terinary S	Surgery									
Dairy: 3												
One farm												
Western Ca												
Malmesbury	v Malmeshurv											
Malmesbury, Malmesbury Dierehospitaal  Dairy: 2												
Dairy: 2	y, i-iaiiiicsbai y	Diereilos	рітааі									
	y, Flamesbury	Dierenos	рітааі						^			
Dairy: 2  Ketosis	Mpumalanga			North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape			
Dairy: 2  Ketosis												
Dairy: 2 Ketosis PROVINCE Average		<b>Gauteng</b> 2.0 (2)	Limpopo	West	3.0 (3)	Natal 2.0 (1)	Cape	2.0 (2)	Cape			
Dairy: 2 Ketosis PROVINCE Average Level of impo	Mpumalanga	Gauteng  2.0 (2)  = one case	Limpopo	West	3.0 (3)	Natal 2.0 (1)	Cape	2.0 (2)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef	Mpumalanga	<b>Gauteng</b> 2.0 (2)	Limpopo	West	3.0 (3)	Natal  2.0 (1)  ut less than t	Cape	2.0 (2)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported	Mpumalanga	Gauteng  2.0 (2)  = one case	Limpopo	West	3.0 (3) e case b	Natal 2.0 (1)	Cape	2.0 (2)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep	Mpumalanga	2.0 (2) = one case 2.0 (1)	Limpopo	West	3.0 (3)	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2 Ketosis PROVINCE Average Level of imporeported Beef Dairy Sheep Gauteng	Mpumalanga ortance scale: 1	2.0 (2) = one case 2.0 (1) 2.0 (1)	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts	Mpumalanga ortance scale: 1	2.0 (2) = one case 2.0 (1) 2.0 (1)	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts Beef: 2, Sheep	Mpumalanga ortance scale: 1	2.0 (2) = one case 2.0 (1) 2.0 (1)	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts Beef: 2, Sheef  Free State	Mpumalanga ortance scale: 1	2.0 (2) = one case 2.0 (1) 2.0 (1) aat Dierel	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts Beef: 2, Sheef  Free State	Mpumalanga ortance scale: 1 spruit, Kerkstr	2.0 (2) = one case 2.0 (1) 2.0 (1) aat Dierel	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts  Beef: 2, Sheef  Free State  Clocolan, Cl  Sheep: 3	Mpumalanga ortance scale: 1 spruit, Kerkstr	2.0 (2) = one case 2.0 (1)  2.0 (1)  aat Dierel liniek	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			
Dairy: 2  Ketosis  PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Gauteng  Bronkhorsts  Beef: 2, Sheef  Free State  Clocolan, Cl  Sheep: 3  Frankfort, F  Sheep: 3	Mpumalanga ortance scale: 1 spruit, Kerkstr ep: 2	Gauteng  2.0 (2)  = one case  2.0 (1)  2.0 (1)  aat Dierel liniek	<b>Limpopo</b> e, 2 = more	West	3.0 (3) e case b	Natal  2.0 (1)  ut less than t	Cape	2.0 (2) more than 3.0 (1)	Cape			

Sheep: 3  Kwazulu-Natal											
Dundee, En	dumeni Herd h	nealth									
Dairy: 2											
Western Ca	pe										
	ledon Dierekli	niek									
Sheep: 1											
Malmesbury	, Malmesbury	Dierehos	pitaal								
Dairy: 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 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases		
Dairy					1.0 (1)			2.0 (1)			
Western Cape Malmesbury, Malmesbury Dierehospitaal Dairy: 2											
Reproductive diseases  Dystocia (Difficult Births)											
									^		
Dystocia		rths)	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Dystocia	(Difficult Bi	rths) Gauteng		West	State	Natal	Cape		Cape		
Dystocia PROVINCE Average	(Difficult Bi	rths) Gauteng 1.8 (4)	1.0 (1)	West 2.6 (7)	2.3 (25)	Natal 1.9 (12)	<b>Cape</b> 2.0 (1)	2.0 (6)	2.0 (2)		
Dystocia  PROVINCE  Average  Level of impo	(Difficult Bi Mpumalanga 2.3 (8)	rths) Gauteng 1.8 (4)	1.0 (1)	West 2.6 (7)	2.3 (25) e case b	Natal 1.9 (12)	<b>Cape</b> 2.0 (1)	2.0 (6) more than 1	2.0 (2)		
PROVINCE  Average  Level of imporeported	(Difficult Bi Mpumalanga 2.3 (8) ortance scale: 1	rths) Gauteng 1.8 (4) = one case	1.0 (1) e, 2 = more	2.6 (7)	2.3 (25) e case b	Natal  1.9 (12)  ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1	2.0 (2)		
PROVINCE  Average  Level of imporeported  Beef	(Difficult Bi Mpumalanga 2.3 (8) ortance scale: 1	rths) Gauteng 1.8 (4) = one case	1.0 (1) e, 2 = more	2.6 (7)	2.3 (25) e case b  2.4 (16) 2.0 (1)	Natal  1.9 (12)  ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1 2.5 (2)	2.0 (2) 10 cases 2.0 (1)		
PROVINCE  Average  Level of imporeported  Beef  Dairy	(Difficult Bi Mpumalanga 2.3 (8)  ortance scale: 1 2.3 (6)	rths)  Gauteng  1.8 (4)  = one case  2.0 (3)	1.0 (1) e, 2 = more	West 2.6 (7) than one 2.5 (6)	2.3 (25) e case b  2.4 (16) 2.0 (1) 2.1	1.9 (12) ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1 2.5 (2) 1.7 (3)	2.0 (2)		
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep	(Difficult Bi Mpumalanga 2.3 (8) ortance scale: 1 2.3 (6) 2.0 (2)	rths)  Gauteng  1.8 (4)  = one case  2.0 (3)	1.0 (1) e, 2 = more	West 2.6 (7) than one 2.5 (6)	2.3 (25) e case b  2.4 (16) 2.0 (1) 2.1	1.9 (12) ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1 2.5 (2) 1.7 (3)	2.0 (2) 10 cases 2.0 (1)		
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Goat  Mpumalang	(Difficult Bi Mpumalanga 2.3 (8) ortance scale: 1 2.3 (6) 2.0 (2)	rths) Gauteng 1.8 (4) = one case 2.0 (3)	1.0 (1) e, 2 = more	West 2.6 (7) than one 2.5 (6)	2.3 (25) e case b  2.4 (16) 2.0 (1) 2.1	1.9 (12) ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1 2.5 (2) 1.7 (3)	2.0 (2) 10 cases 2.0 (1)		
PROVINCE  Average  Level of imporeported  Beef  Dairy  Sheep  Goat  Mpumalang	(Difficult Bi Mpumalanga 2.3 (8) ortance scale: 1 2.3 (6) 2.0 (2)	rths) Gauteng 1.8 (4) = one case 2.0 (3)	1.0 (1) e, 2 = more	West 2.6 (7) than one 2.5 (6)	2.3 (25) e case b  2.4 (16) 2.0 (1) 2.1	1.9 (12) ut less than to	2.0 (1) en and 3 =	2.0 (6) more than 1 2.5 (2) 1.7 (3)	2.0 (2) 10 cases 2.0 (1)		

**Bethal, Bethal Dierekliniek** Beef: 2 Grootvlei, Grootvlei Dierekliniek Beef: 2, Sheep: 2 Lydenburg, Longtom Dierekliniek Beef: 2, Sheep: 2 Middelburg, Middelburg Dierehospitaal Beef: 3 Middelburg, Neil Fourie Veeartsenydienste Beef: 3 Gauteng **Bronkhorstspruit, Kerkstraat Dierekliniek Muldersdrift, Muldersdrift Animal Hospital** Beef: 2 Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2, Sheep: 1 Limpopo **Modimolle, Kranskop Dierekliniek** Beef: 1 **North West Brits, Brits Dierekliniek** Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3, Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 2 Rustenburg, Bergbos Dierekliniek Beef: 2 Stella, Stella Dierekliniek Beef: 3 Ventersdorp, Ventersdorp Dierekliniek Beef: 3 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2 Frankfort, Frankfort Dierekliniek Beef: 3, Sheep: 2 Harrismith, Harrismith Dierehospitaal Beef: 2, Sheep: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Dairy: 2 **Memel, Memel Veterinary Clinic** Beef: 2 Parys, Parys Dierehospitaal

Reitz, Riemland Dierehospitaal

Senekal, Senekal Dierekliniek

Beef: 3, Sheep: 2

Beef: 3, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

Vrede, Vrede Dierehospitaal

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Bergville, Tugela Vet Clinic

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 2

**Eshowe, Eshowe Veterinary Hospital** 

Beef: 1

**Estcourt, Estcourt Vet Clinic** 

Beef: 2

**Mooi River, Mooirivier Vet Clinic** 

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

**Newcastle, Ncanduvet Newcastle** 

Beef: 3, Sheep: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

**Pongola, Pongola Animal Clinic** 

Beef: 1

**Underberg, Underberg Veterinary Surgery** 

Beef: 2

**Eastern Cape** 

Alexandria, Alexandria Platteland Spreekkamer

Beef: 2

**Western Cape** 

**Darling, Tygerberg Dierehospitaal Darling** 

Beef: 3

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

**Oudtshoorn, Ostrimed** 

Sheep: 2

Tough environment

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

**Northern Cape** 

Postmasburg, Postmasburg Dierekliniek

Beef: 2, Goat: 2

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.3 (3)	2.0 (1)		2.8 (4)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef					2.5 (2)			2.0 (1)	
Dairy					2.0 (1)	2.0 (1)		3.0 (3)	
Free State									
Clocolan, Cl Beef: 2	ocolan Dierek	liniek							
Hoopstad, H	loopstad Diere	ekliniek							
Beef: 3									
Kroonstad,	Kroonstad Die	rehospita	al						
Dairy: 2									
Kwazulu-Na	ital								
	tcourt Vet Clir	nic							
Dairy: 2									
Western Ca	ne								
	ledon Dierekli	iniak							
	ledon Dielekii	IIIIEK							
Dairy: 3	. Malasaalasaa	. D!l	: 1						
	y, Malmesbury	Dierenos	pitaai						
Beef: 2, Dairy									
	ı, Swellendam	Dierenos	pitaai						
Dairy: 3									
Metritis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo		State	Natal		Cape	
Average	Mpumalanga  ortance scale: 1			3.0 (2)	2.5 (4)	Natal 2.0 (2)	<b>Cape</b> 2.0 (2)	2.6 (5)	Cape
Average Level of imporeported				3.0 (2)	2.5 (4) e case b	Natal 2.0 (2)	<b>Cape</b> 2.0 (2)	2.6 (5) more than 1	Cape
Average  Level of impo				3.0 (2) than one	2.5 (4) e case b	Natal  2.0 (2)  ut less than to	2.0 (2) en and 3 =	2.6 (5) more than 1	Cape
Average  Level of imporeported  Beef				3.0 (2) than one	2.5 (4) e case b  2.5 (2) 2.0 (1)	2.0 (2)  ut less than to  1.0 (1)	2.0 (2) en and 3 =	2.6 (5) more than 1	Cape
Average  Level of imporeported  Beef  Dairy				3.0 (2) than one 3.0 (1)	2.5 (4) e case b  2.5 (2) 2.0 (1) 3.0	2.0 (2)  ut less than to  1.0 (1)	2.0 (2) en and 3 =	2.6 (5) more than 1	Cape
Average  Level of impore reported  Beef  Dairy  Sheep  North West		= one case	e, 2 = more	3.0 (2) than one 3.0 (1)	2.5 (4) e case b  2.5 (2) 2.0 (1) 3.0	2.0 (2)  ut less than to  1.0 (1)	2.0 (2) en and 3 =	2.6 (5) more than 1	Cape
Average  Level of impore reported  Beef  Dairy  Sheep  North West	ortance scale: 1  Christiana Die	= one case	e, 2 = more	3.0 (2) than one 3.0 (1)	2.5 (4) e case b  2.5 (2) 2.0 (1) 3.0	2.0 (2)  ut less than to  1.0 (1)	2.0 (2) en and 3 =	2.6 (5) more than 1	Саре

<b>Bloemfonte</b>	in, Dr Stephan	Wessels							
Beef: 2									
	Hoopstad Diere	ekliniek							
Beef: 3, Shee	•								
	nekal Dierekli	niek							
Dairy: 2									
Kwazulu-Na									
	Mooirivier Vet	Clinic							
Beef: 1	11 dl \/-								
	Underberg Ve	terinary S	urgery						
Dairy: 3									
Eastern Cap	e Alexandria Pla	attaland S	nrookkan	10r					
Beef: 1	Alexaliulia Pic	acceiana S	рргееккап	iei					
	, Tenax Vet Cli	nic							
Dairy: 3	, Tellax Vet Cli	IIIC							
21 Cases									
Western Ca	pe								
	ledon Dierekli	niek							
Dairy: 3									
	gerberg Diereh	ospitaal I	Darling						
Dairy: 3		•							
	y, Malmesbury	Dierehos	pitaal						
Beef: 1, Dair									
Swellendan	n, Swellendam	Dierehos	pitaal						
Dairy: 3									
Door con	contion								_
Poor con	ception								_
				North	Eroo	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Cape	Cape	Cape
				-1.03			Сирс	Сирс	СПРС
Average	2.0 (1)					2.0 (1)	3.0 (1)	2.2 (5)	2.0 (1)
Level of impo	ortance scale: 1	= one case	2 = more	than on	e case h	ut less than t	en and 3 =	more than	10 cases
reported	ortance scale. 1	- one case	c, 2 – more	c didii on	c case b	at iess than t	cir dila 5 –	more than	10 cases
	2 0 (4)					• • • • • •		2.0 (1)	
Beef	2.0 (1)					2.0 (1)		2.0 (1)	
Dairy								2.3 (3)	
Sheep							3.0 (1)	2.0 (1)	2.0 (1)
	_						3.0 (1)	2.0 (1)	2.0 (1)
Mpumalang	a  four Diereklin	iale							
Beef: 2	iloui Dielekiili	iek							
Kwazulu-Na	atal								
	dumeni Herd h	nealth							
Beef: 2	aumem nera i	icaitii							
Eastern Cap	ne e								
	Witelsbos Vete	rinary Co	nsultina R	Rooms					
Sheep: 3		, CO		-50.110					
Western Ca	ne								
	y, Invitrotech								
	y, Invitrotech								
Dairy: 2	y, Invitrotech  lled due to repro	oduction							

Malmesbury, Malmesbury Dierehospitaal

	v: 2, Sheep: 2								
	ı, Swellendam	Dierehos	pitaal						
Dairy: 3									
Northern Ca	•	<b>6</b> 11 1							
	Aar Veterinary	Clinic							
Sheep: 2	ion due to droug	aht conditio	nc.						
Poor concepti	ion due to droug	Jiit Condide	0115						
Retained	afterbirth								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average	1.0 (4)	1.0 (2)		1.0 (1)	1.3 (6)	1.7 (3)		2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
reporteu									
Beef	1.0 (3)	1.0 (1)		1.0 (1)	1.3 (6)	1.7 (3)			
Dairy					<u> </u>			2.0 (2)	
Sheep	1.0(1)	1.0(1)							
Mpumalang	а								
	- four Diereklin	iek							
Beef: 1									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 1									
Lydenburg,	<b>Longtom Dier</b>	ekliniek							
Beef: 1, Shee	p: 1								
Gauteng									
	aal, Themba A	Animal Cli	nic						
Beef: 1, Shee	p: 1								
North West			_						
	Christiana Die	rehospita	al						
Beef: 1 Free State									
	in, Dr Stephan	Wessels							
Beef: 2	, Di Stepilali	11633613							
	Harrismith Di	erehosnit	aal						
Beef: 1		oop.u							
	loopstad Diere	ekliniek							
Beef: 2	•								
Ladybrand, Beef: 1	Ladybrand Die	erekliniek							
	Rowelsfonteir	veearts	Spreekkan	ner					
Beef: 1									
	nekal Dierekli	niek							
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 3	Monirivier Vel								

Mooi River, Mooirivier Vet Clinic

Beef: 1

Western Ca		Dievela	mite-1						
Maimesbury Dairy: 3	y, Malmesbury	Dierenos	рітааі						
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Sheath P	rolaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)	1.0 (3)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.5 (2)	1.0 (3)			
ree State									
	Harrismith Di	erehospit	aal						
Beef: 1	loonstad Diore	akliniak							
noopstau, r Beef: 2	loopstad Diere	EKIIIIEK							
(wazulu-Na	atal								
	ıcaı								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 1	ergville Veteri								
Beef: 1 <b>Mtubatuba,</b>									
Beef: 1 <b>Mtubatuba,</b> Beef: 1	ergville Veteri Mtubatuba Ar	nimal Clin	ic						
Beef: 1 <b>Mtubatuba,</b> Beef: 1 <b>Pietermarit</b>	ergville Veteri	nimal Clin	ic						
Beef: 1 Mtubatuba, Beef: 1 Pietermarit Beef: 1	ergville Veteri Mtubatuba Ar zburg, Veterin	nimal Clin	ic						_
Beef: 1  Mtubatuba, Beef: 1  Pietermarit: Beef: 1  Uterus pr	ergville Veteri Mtubatuba Ar zburg, Veterin	nimal Clin	ic e Hospital	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 1  Mtubatuba, Beef: 1  Pietermarit: Beef: 1  Uterus pr	ergville Veteri Mtubatuba Ar zburg, Veterin rolaps	nimal Clin	ic e Hospital						•
Beef: 1 Mtubatuba, Beef: 1 Pietermarit: Beef: 1 Uterus pr PROVINCE Average	ergville Veteri  Mtubatuba Ar  zburg, Veterin  rolaps  Mpumalanga	Gauteng	ic e Hospital Limpopo	West	1.9 (10)	1.3 (4)	Cape	1.5 (2)	Cape
Beef: 1  Mtubatuba, Beef: 1  Pietermarit Beef: 1  Uterus pr  PROVINCE  Average	ergville Veteri Mtubatuba Ar zburg, Veterin rolaps Mpumalanga 1.7 (3)	Gauteng	ic e Hospital Limpopo	West	1.9 (10)	1.3 (4)	Cape	1.5 (2)	Саре
Beef: 1 Mtubatuba, Beef: 1 Pietermarit Beef: 1 Uterus pr PROVINCE Average Level of imporeported	ergville Veteri Mtubatuba Ar zburg, Veterin rolaps Mpumalanga 1.7 (3) ortance scale: 1	Gauteng  2.0 (2)  = one case	ic e Hospital Limpopo	West	1.9 (10) e case b	1.3 (4) ut less than t	Cape	1.5 (2)	Cape

Middelburg, Neil Fourie Veeartsenydienste										
Beef: 2	,									
Gauteng										
	spruit, Kerkstr	aat Diere	kliniek							
Beef: 2	- <b>,</b>									
Hammansk	raal, Themba A	Animal Cli	nic							
Beef: 2	,									
Free State										
Bultfontein	, Greylingsrust	t Dierespr	eekkamer							
Beef: 1, Shee										
	ocolan Dierek	liniek								
Beef: 2										
	Dosvrvstaat Di	iere Produ	ıkte							
Ficksburg, Oosvrystaat Diere Produkte  Beef: 2										
Beef: 2 Frankfort, Frankfort Dierekliniek										
Beef: 3, Shee										
	Kroonstad Die	rehospita	al							
Sheep: 2										
-	nel Veterinary	Clinic								
Beef: 1										
· · ·	land Dierehos	pitaal								
Beef: 2		<b>, , , , , , , , , , , , , , , , , , , </b>								
	nekal Dierekli	niek								
Beef: 2										
Kwazulu-Na	atal									
	ergville Veteri	narv Clini	c							
Beef: 2		,								
	dumeni Herd l	nealth								
Beef: 1										
	howe Veterina	rv Hospit	al							
Beef: 1		,								
	zburg, Veterin	arv House	Hospital							
Beef: 1	Lburg, veterm	ury mous.	riospicai							
Western Ca	ne									
	y, Malmesbury	Dierehos	nitaal							
Dairy: 1	y, i-idiliicsbui y	Dicicios	praui							
	Durban Straat	Diereklin	iek Worce	ster						
Beef: 2	Darban Scraac	. Dicickiii	iick Worce	J.C.						
DCCI. Z										
Vaginal (	Cervical) pr	olaps							^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	3.0 (1)	1.5 (2)	1.0 (1)		2.0 (10)	1.6 (5)		3.0 (1)	2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef 3.0 (1) 1.5 (2) 1.0 (1) 2.1 (7) 1.6 (5) 2.0 (1)										
1.7 (3)										

Beef: 3  Gauteng									
	aal, Themba A	Animal Cli	nic						
Beef: 1	•								
Pretoria, On	derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С		
Beef: 2	<u> </u>		<u>.</u>						
Limpopo									
Modimolle,	Kranskop Dier	ekliniek							
Beef: 1									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 3									
Frankfort, F	rankfort Diere	ekliniek							
Beef: 2									
Harrismith,	Harrismith Die	erehospita	aal						
Beef: 1, Shee		•							
	loopstad Diere	ekliniek							
Beef: 3, Shee	•								
	Ladybrand Die	erekliniek							
Beef: 2, Shee	p: 1								
Reitz, Riem	and Dierehos	pitaal							
Beef: 2									
Senekal, Se	nekal Dierekli	niek							
Beef: 2									
Kwazulu-Na	tal								
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, En	dumeni Herd h	nealth							
Beef: 2									
Eshowe, Esh	nowe Veterina	ry Hospita	al						
Beef: 1									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 1									
Mtubatuba,	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Western Cap	ре								
Oudtshoorn	, Ostrimed								
Sheep: 3									
	ng, mild to seve	ere							
Northern Ca									
	g, Postmasbu	rg Dierekl	liniek						
Beef: 2									
Climatica	al Cause								
Cold expo	osure								
Cold Expl									
DDOVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE									

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

Sheep	1.0(1)	
Goat	1.0 (1)	

# Kwazulu-Natal

# Pongola, Pongola Animal Clinic

Sheep: 1, Goat: 1

Drought	Drought										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	3.0 (3)				2.3 (3)	3.0 (2)	3.0 (4)		3.0 (2)		

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

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

### **Mpumalanga**

# Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

### **Free State**

# Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 3

# Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

# Kwazulu-Natal

# Bergville, Bergville Veterinary Clinic

Beef: 3

# Pietermaritzburg, Veterinary House Hospital

Beef: 3

# **Eastern Cape**

# Adelaide, Adelaide Veterinary Clinic

Beef: 3

Extreme drought

Sheep: 3

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

Sheep: 3, Goat: 3
Northern Cape

# **Upington, Upington Veeartsenykliniek**

Beef: 3

Freak cloud burst in Upington, 90 mm of rain. Very dry in Northern Cape

Sheep: 3

Carcases condemned due to watery carcases, very poor condtion

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.3 (3)				1.0 (1)	2.0 (1)		3.0 (3)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported											
Beef	2.0 (2)				1.0 (1)	2.0 (1)		3.0 (1)			
Dairy								3.0 (1)			
Sheep	3.0 (1)							3.0 (1)			
Mpumalang											
Balfour, Bal Beef: 1	four Diereklin	iek									
	Longtom Dier	ekliniek									
Beef: 3, Shee											
Free State											
Harrismith, Beef: 1	Harrismith Die	erehospita	aal								
Kwazulu-Na	tal										
Bergville, Be	ergville Veteri	nary Clini	С								
Beef: 2											
Western Cap	pe ,, Malmesbury	Diarahaa	nitaal								
Beef: 3, Dairy		Diereilos	рісааі								
Lightning									_		
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
		<b>Gauteng</b> 1.0 (1)	Limpopo								
PROVINCE Average	Mpumalanga	1.0 (1)		West 1.0 (1)	2.6 (5)	Natal 2.5 (2)	Cape	Cape	Cape		
PROVINCE  Average  Level of impo	Mpumalanga	1.0 (1)		West 1.0 (1)	2.6 (5) e case b	Natal 2.5 (2)	Cape	Cape	Cape		
PROVINCE  Average  Level of imporeported	Mpumalanga 1.0 (2) ortance scale: 1	1.0 (1) = one case		1.0 (1) than one	2.6 (5) e case b	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		
PROVINCE  Average  Level of impore reported  Beef  Sheep  Mpumalange Balfour, Balfou	Mpumalanga 1.0 (2) ortance scale: 1 1.0 (2)	1.0 (1) = one case 1.0 (1)		1.0 (1) than one	2.6 (5) e case b  2.5 (4)  3.0	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		
PROVINCE  Average  Level of imporeported  Beef  Sheep  Mpumalange Balfour, Balt Beef: 1	Mpumalanga  1.0 (2)  ortance scale: 1  1.0 (2)  a four Diereklini	1.0 (1) = one case 1.0 (1)		1.0 (1) than one	2.6 (5) e case b  2.5 (4)  3.0	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		
Average  Level of imporeported  Beef  Sheep  Mpumalang Balfour, Balt Beef: 1 Bethal, Beth	Mpumalanga  1.0 (2)  ortance scale: 1  1.0 (2)	1.0 (1) = one case 1.0 (1)		1.0 (1) than one	2.6 (5) e case b  2.5 (4)  3.0	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		
PROVINCE  Average  Level of imporeported  Beef  Sheep  Mpumalange Balfour, Balt Beef: 1	Mpumalanga  1.0 (2)  ortance scale: 1  1.0 (2)  a four Diereklini	1.0 (1) = one case 1.0 (1)		1.0 (1) than one	2.6 (5) e case b  2.5 (4)  3.0	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		
Average  Level of imporeported  Beef  Sheep  Mpumalang Balfour, Balt Beef: 1 Bethal, Beth Beef: 1 Gauteng	Mpumalanga  1.0 (2)  ortance scale: 1  1.0 (2)  a four Diereklini	1.0 (1) = one case 1.0 (1)	e, 2 = more	1.0 (1) than one	2.6 (5) e case b  2.5 (4)  3.0	Natal  2.5 (2)  ut less than t	Cape	Cape	Cape		

	Christiana Die		aı						
Beef: 1									
Free State									
•	rankfort Diere	kliniek							
Beef: 3, Shee									
	Harrismith Die	erehospita	aal						
Beef: 2	nal Vatarinam	Climia							
memei, men Beef: 2	nel Veterinary	Clinic							
	e Dierehospita	nal							
Beef: 3	e Dierenospita	ıaı							
Kwazulu-Na	atal								
	ergville Veteri	narv Clini	c						
Beef: 2		,							
Dundee, En	dumeni Herd h	ealth							
Beef: 3									
Non spe	cific diseas	es							
Cause of	death not e	stablish	ed						2
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
					2.0			3.0 (1)	
Average					(1)				
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on		ut less than to	en and 3 =	` '	10 cases
Average Level of imporeported  Dairy	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	` '	10 cases
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on		ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State					e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, Williers, Williers	ortance scale: 1 gepoort Dierek				e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, 2	gepoort Dierek				e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, 2  Western Ca	gepoort Dierek				e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, Western Ca	gepoort Dierek pe				e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, Willi	gepoort Dierek pe y, Invitrotech				e case b	ut less than to	en and 3 =	more than	10 cases
Level of impore reported  Dairy  Sheep  Free State Villiers, Wildingsheep: 2  Western Ca Malmesbury Dairy: 3  Genetic d	gepoort Dierek pe y, Invitrotech	kliniek Ve	nnootskap		e case b	ut less than to	en and 3 =  Eastern Cape	more than	10 cases  Northern Cape
Level of impore reported  Dairy  Sheep  Free State  Villiers, Wildians  Sheep: 2  Western Ca  Malmesbury  Dairy: 3  Genetic of	gepoort Dierek pe y, Invitrotech lisorders	kliniek Ve	nnootskap	North	2.0 (1)	Kwazulu-	Eastern	more than 3.0 (1)  Western	Northern
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, Willi	gepoort Dierek pe y, Invitrotech lisorders	diniek Ve	nnootskap	North	e case b  2.0 (1)  Free State	Kwazulu- Natal	Eastern Cape	western Cape 1.0 (1)	Northern Cape
Level of imporeported  Dairy  Sheep  Free State Villiers, Williers, Williers	gepoort Dierek pe y, Invitrotech lisorders Mpumalanga	diniek Ve	nnootskap	North	e case b  2.0 (1)  Free State	Kwazulu- Natal 1.0 (1) ut less than to	Eastern Cape	western Cape 1.0 (1)	Northern Cape
Level of impore reported  Dairy  Sheep  Free State Villiers, Williers, Willi	gepoort Dierek pe y, Invitrotech lisorders Mpumalanga	diniek Ve	nnootskap	North	e case b  2.0 (1)  Free State	Kwazulu- Natal	Eastern Cape	western Cape 1.0 (1)	Northern Cape

Beef: 1									
Western Ca	ne								
	y, Invitrotech								
Dairy: 1	y, ilividiotecii								
Hermaphrodit	to.								
пеннаритоці	te								
Preditors									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (1)			2.4 (5)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)	1.0 (1)			2.0 (2)				
Sheep	2.0 (1)				2.7 (3)				
Mpumalang									
	<b>Longtom Dier</b>	ekliniek							
Beef: 2, Shee	ep: 2								
Gauteng									
	nderstepoort A	cademic	Hospital ar	nd Prod	uction A	Animal Clinic	С		
Beef: 1			-						
Dog bites									
Free State									
	ocolan Dierek	liniek							
Beef: 2, Shee		iiiii Cix							
	Rowelsfontein	veearts 9	Snreekkan	ner					
Sheep: 2	ito ir cisi on cen	. vecares .	opi cennan						
•	gepoort Dierel	rliniak Va	nnootekan	<u> </u>					
Beef: 2, Shee		tilliek ve	шооськар						
been 2, snee	:р. э								
Sabotatio	on/Theft								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)				3.0 (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									
	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imported  Beef	ortance scale: 1 3.0 (1)	= one case	e, 2 = more	than one	3.0 (1)	3.0 (1)	en and 3 =	more than	10 cases
reported		= one case	e, 2 = more	than one	3.0		en and 3 =	more than	10 cases

Mpumalang										
	Longtom Dier	ekliniek								
Beef: 3, Sheep: 3										
Free State Bultfontein, Greylingsrust Dierespreekkamer										
Sheep: 3	Greyningsrust	. Dielespi	cerrainei							
	ocolan Dierek	liniek								
	: 3, Sheep: 3									
	gepoort Dierek	diniek Ve	nnootskap	)						
Sheep: 3										
Kwazulu-Na Barguilla B		namı Clini	_							
Beef: 3	ergville Veteri	nary Cilnic	<u> </u>							
Trauma									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)								
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef		1.0(1)								
<b>Gauteng Pretoria, Or</b> Beef: 1 Frctures	derstepoort A	cademic I	Hospital aı	nd Prod	uction <i>l</i>	Animal Clinic	C			
Traumati	c Reticulo-p	ericardi	itis						_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)		1.0 (1)						
Level of 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)						
Gauteng										
	derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С			
Beef: 1										
North West										
Schweizer-I	Reneke, Buffel	doorn Die	rekliniek S	SR						

Beef: 1