

# **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**

## **January 2020**

(Previous disease reports can be seen on the RuVASA website [www.ruvasa.co.za](http://www.ruvasa.co.za) )

These reports include data from individual practices

Click on Disease Reports

**The following practices and laboratories (134) submitted reports during January 2020:**

### **Mpumalanga (12)**

Balfour – Dr. Lous van Jaarsveld  
Bethal – Dr. Hardus Pieters  
Ermelo – Dr. Ben Potgieter  
Grootvlei – Dr. Neels van Wyk  
Hendrina – Dr. Anja Steinberg  
Lydenburg – Dr. Marietjie Malan  
Lydenburg – Drs. Trümpelmann and Steyn  
Malalane – Drs. Van Sittert and Van Sittert  
Middelburg – Dr. Neil Fourie  
Nelspruit – Dr. André Beytel  
Standerton – Dr. Kobie Kroon  
Volksrust – Dr. Johan Blaauw

### **Gauteng (8)**

Bronkhorstspuit – Dr. De Bruin, De Bruin and Labuschagne  
Hammanskraal – Dr. Hentie Engelbrecht  
Magaliesburg – dr. Ryan Jeffery  
Muldersdrift – Drs. Speedy and Enslin  
Nigel – Dr. Cindy van der Westhuizen  
Onderstepoort Veterinary Academic Hospital – Prof. Holm, Drs. Grobler, Hentzen, Koepfel, Leask, Magadu, Magagula, Mokoele, O'Dell, Tagireyi, Tshuma, Van den Hurk and Van der Leek  
Pretoria – Dr. Hanneke Pienaar  
Vanderbijlpark – Dr. Kobus Kok

**Limpopo (8)**

Bela-Bela (Warmbaths) – Dr. Nele Sabbe

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

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

Mokopane (Potgietersrus)- Dr. Henk Visser

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

Tzaneen – Dr. Danie Odendaal

Vaalwater – Dr. Annemieke Müller

Vaalwater – Dr. Hampie van Staden

**North West (14)**

Beestekraal – Dr. Alwyn Venter

Bloemhof – Dr. Cizelle Naudé

Brits – Dr. Boshoff and Coertze

Christiana – Dr. Pieter Nel

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

Van den Berg, Van der Walt and Geral

Leeudoringstad – Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie-Krüger-Rall

Ottosdal – Sharnelle Ferreira

Potchefstroom – Dr. Martin Ferreira

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

Vryburg – Dr. Jurie Kritzing

**Free State (22)**

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

Frankfort – Drs. Lesssing, Cilliers and Janse van Rensburg

Gariiep Dam – Dr. Marni Malan

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

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

Memel – Drs. Nixon and Nixon  
Parys – Drs. Wessels and Wessels  
Reitz – Dr. Murray Smith  
Senekal – Dr. Jan Blignaut  
Smithfield – Dr. Nienke van Hasselt  
Viljoenskroon – Dr. Johan Kahts  
Villiers – Dr. D’Wall Hauptfleish  
Vrede – Drs. Myburgh and Bester-Cloete  
Wesselsbron – Dr. Johan Jacobs  
Winburg – Drs. Albertyn and Albertyn  
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 – Drs. Pryke and Hoffman  
Estcourt – Drs. Turner, Tedder, Taylor, Tratschler, Van Rooyen and Alwar  
Howick – Drs. Hughes, Lund, Gordon, Allison and Taylor  
Kokstad – Drs. Clowes, Shrives and Lees  
Mtubatuba – Dr. Trevor Viljoen  
Newcastle – Dr. Barry Rafferty  
Pietermaritzburg – Dr. Philip Kretzmann  
Pongola – Dr. Heinz Kohrs  
Underberg - Drs. King and Delaney  
Vryheid – Drs. Theron and Theron

#### **Eastern Cape (14)**

Adelaide – Dr. Steve Cockroft  
Alexandria – Dr. Charlene Boy  
Alexandria – Dr. Johan Olivier  
Aliwal North – Drs. Troskie and Strauss  
Bathurst – Dr. Jane Pistorius  
Cradock – Dr. Frans Erasmus  
Elliot – Drs. Clowes, Shrives and Lees  
Graaff- Reinet - Dr. Roland Larson  
Graaff-Reinet – Drs. Hobson, Strydom and Hennesy  
Humansdorp – Drs. Van Niekerk, Jansen van Vuuren and Davis  
Jeffreys Bay – Drs. Lategan, Hoek and McFarlane  
Steynsburg – Dr. Johan van Rooyen  
Stutterheim – Dr Dave Watermann

Uitenhage – Drs. Mulder and Krüger  
Witelsbos – Dr. Elmien Kotze

### **Western Cape (24)**

Beaufort West - Dr. Jaco Pienaar  
Beaufort West – Dr. Bennie Grobler  
Caledon – Drs. Louw and Viljoen  
Caledon – Drs. Retief, Coetzer and Jansen  
Ceres – Drs. Pieterse, Wium, De Villiers and Scheepers  
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. Markus Fourie  
Malmesbury – Drs. Heyns and Zolner  
Malmesbury – Dr. Andries Lesch  
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 – Drs. Malan and Fourie  
Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt  
Vredenburg – Dr. Izak Rust  
Wellington – Drs. Van Zyl and Louw  
Worcester – Dr. Kobus Rabe

### **Northern Cape (9)**

Calvinia – Dr. Bertus Nel  
Colesberg – Drs. Rous and Rous  
De Aar – Dr. Donald Anderson  
Kathu – Dr. Jan Vorster  
Kimberley – Drs. Van de Wateren and Van de Wateren  
Kimberley – Drs. Swart, Smith and Hyslop  
Kuruman – Dr. Lea Shuda  
Postmasburg – Dr. Boeta van der Merwe  
Upington – Drs. Vorster and Visser

### **Feedlots (1)**

Drs. Morris and Du Preez

**Mastitis consultant (1)**

Dr. Theo Kotzé – Moqhaka district (Kroonstad municipality)

**Laboratory reports (7)**

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Rick Last – Vetdiagnostix, Pietermaritzburg

Dr. Liza du Plessis – Idexx SA – Johannesburg

Dr. Emily Mitchell – Wildlife, Faculty of Veterinary Science, University of Pretoria

Dr. Sophette Gers – Pathcare, Cape Town

Dr. Mark Chimes – Dairy Standards, George

Amanda McKenzie – Vryburg Veterinary Laboratory

**FOOT AND MOUTH DISEASE -THE NEXT STEP**

Foot and mouth disease had been on on the agenda of most people during the last few months! This was not the first outbreak in our country and it will not be the last .....unless!!!!!!

During each outbreak huge financial losses occurred for everybody involved in the meat industry. The blame game is played and usually the government in power during the time of an outbreak is blamed for incompetency at all levels.

The current outbreak is no exception! Meetings were regularly held, animal movements were traced, gathering of animals from different origin were banned, auctions were affected, export of animal products got more difficult and the poorest of the poor could not sell their animals. Income became scarce and banks were asked to be lenient where debt could not be serviced in time! Spare a moment for animal farmers, especially from us earning a monthly salary!

The ban on auctions were resently lifted but now we (all of us involved in animal production) have to prove to the OIE (World organization for animal health) that the FMD free zone in South Africa IS FREE of FMD. This is going to take time and money to prove this!

Where do we start? On the farm, our districts, our country and our borders. We have to dream, think and live biosecurity every day of our lives!

**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 antiparasiticide 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 strength – join your producer organization!!

**What to do to be prepared for future outbreaks**

**The traceability system is on its way! Get on the train!!!**

### **Biosecurity guidelines**

<http://nahf.co.za/wp-content/uploads/FMD-Basic-Biosecurity-Guidelines-2019-11-26-Ver-4.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 2019-11-26 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.
  - l. 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](http://www.securebeef.org)

#### 9. Quarantine:

- a. For extra security all cloven hooved animals should be quarantined at least 100 meters for 21 days away from the herd.
- b. There will be absolutely no contact with the herd or flock 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!!!!!!!**



#### **Media Statement**

**17 February 2020**

#### **MINISTER DIDIZA UPDATES THE PUBLIC ON THE UNBANNING OF AUCTIONS AND MEASURES TO PREVENT THE SPREAD FOOT-AND-MOUTH DISEASE OUTBREAK IN THE COUNTRY**

Agriculture, Land Reform and Rural Development Minister Thoko Didiza, MP has today 17 February 2020, announced that the blanket ban on gatherings animals is now lifted, since the outbreak of Foot-and-Mouth three months ago in the Molemole District in Limpopo.

The Minister's decision follows the briefing she received from the technical task team over the weekend.

The Minister said, "There are preconditions for the resumption of auctions. Auctions will only be conducted under stringent conditions. All livestock agents must be registered with the Agricultural Produce Agents Council."

The Minister further emphasised that agents already registered with APAC and complaint to the Rules in respect of livestock agents as published in Government Gazette 41473 Board Notice 28 of 2018 may proceed with auctions. "I wish to draw your attention to the fact that all APAC certificates issued prior to 2 March 2018 have lapsed and renewal should be done on or before 30 March 2020. I therefore encourage all livestock and game traders to contact the APAC for re-registration prior to resuming with their businesses" remarked Minister Didiza.



The lifting the temporary ban on gatherings of animals, is NOT implying that such activities are safe. Therefore, the Minister is advising all auctioneers to familiarise themselves with their implementing measures to prevent their animals from becoming infected.

These include:

- Not moving high risk animals, such as animals showing signs of disease; animals from unknown origin or animals originating from known infected areas;
- Only buying animals from known and proven sources;
- Insisting of buyers to be supplied with a veterinary health declaration before animals are brought onto their farms;
- Always placing new arrivals in isolation until you can satisfy yourself of their health status. “I wish to remind all livestock keepers of their responsibilities in terms of Section 11 of the Animal Diseases Act, 1984 that 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,” said Minister Didiza. “I am aware of the social and economic impact this decision had on livestock owners, traders and the general sector stakeholders. I want to reassure the nation that this decision was not taken lightly and was implemented as a disease control measure”

Minister Didiza further added. The Minister also emphasised that Veterinary Services are continuing to collaborate with affected farmers to determine the best way forward to resolve the outbreaks on the infected farms.

Slaughter of cattle at specifically designated abattoirs has started, with additional measures to prevent any disease spread through materials such as heads, feet and offal. “I wish to thank these farmers for cooperating with us,” remarked Minister Didiza.

The Minister also said the outbreak of FMD in the free zone cannot be declared as over yet, although it appears that the initial spread of the disease has been successfully contained. She said there is a long way ahead before as a country we can declare the end of the outbreak, let alone regain the internationally recognised FMD free status with the OIE.

According to the Minister, this outbreak highlighted a number of areas which need urgent and close collaboration between livestock keepers and the government.

A team, comprising of industry stakeholders and the FMD subject matter specialists, has already started working on a strategy for the better management of FMD in the controlled area. These measures focus on sustainability of the controlled area and strengthening measures that are already in place.

The outbreak has also highlighted the importance of individual animal identification and traceability, especially with continuous buying and selling of animals. The work on the Livestock Identification and Traceability System (LITS-SA) is at an advanced stage and the implementation of this system is inevitable for better management of diseases in the country. This system should also be able to give us better chances at export market access for our commodities.

The Molemole outbreak was reported on the 1 November in a feedlot in the Capricorn District in Limpopo. This was immediately reported to the OIE. This outbreak was caused by a SAT 2 similar to the one that caused the January 2019, outbreak in Vhembe.

Following initial investigations, the outbreak could be linked to four auctions, held at two auction premises in September and October 2019. Due to the nature of the spread of the disease, through the auction marketing system, numerous properties had to be followed up to determine spread of the infection.

In order to prevent further explosive distribution of the infection and allow the veterinary officials to determine the extent of the spread, an intensive system of tracking and tracing livestock movements and locations was put in place. The application of this system necessitated stringent quarantine measures to be put in place. The measure included mitigation against further spread of the outbreak via auctions through the placement of a temporary ban on gatherings of cloven-hoofed animals nationwide.

“In our approach, we had to balance amongst a few variables, the risks and opportunity costs relating to the possible spread of the disease, economic losses to the entire country and financial losses to stakeholders,” said Minister Didiza.

Other control measures instituted were to place the affected properties under quarantine and not to allow any animals into, through or out of the premises. This was to ensure the virus gets contained in these properties. Approximately 160 properties were identified with links to the auctions. These include primary properties that either received animals from these auctions, or supplied animals to them, as well as the properties that were indirectly linked.

These premises had to be visited, placed under quarantine, with clinical inspection conducted and samples collected as part of the investigation to determine exposure to the infection.

Good progress has been made and the precautionary quarantine has been lifted on more than 90 of these properties. In total, 18 farms were identified where animals tested positive for FMD. Most of the affected properties are commercial cattle farms, including a number of feedlots, which are fortunately all well fenced and where the animals are individually identified and proper records are kept.

This made it possible to implement control measures without the use of emergency vaccination, culling or road-blocks. Of the primary contact premises linked to the auctions, more than 90% have already been visited and their status determined. “This gives the veterinary team sufficient confidence to proceed to the next phase of the control of the outbreak,” concluded Minister Didiza.

ISSUED BY THE DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT For media enquiries contact Reggie Ngcobo Media Liaison Officer on 0828832458

## **Summary of disease report for January 2020**

134 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 12; Gauteng (G) 8; Limpopo (L) 8; Northwest (NW) 14; Free State (FS) 22; KwaZulu-Natal (KZN) 14; Eastern Cape (EC)

14; Western Cape (WC) 24; Northern Cape (NC) 9; Feedlots (FL) 1; Mastitis consultant (MC) 1 and Laboratories (Lab) 7)

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

<b>Disease or condition</b>	<b>Number of provinces reporting</b>
Wireworm	9
Bont-legged ticks	9
Eye infections	9
Dystocia	9
Roundworms	8
Coccidiosis	8
African red water	8
Anaplasmosis	8
Ephemeral fever (three day stiff sickness)	8
Orf	8
Warts	8
Ringworm	8
Lung infection	8
Blue ticks	7
Red-legged ticks	7
Blackquarter	7
<i>E. coli</i>	7
Abscesses	7
Diarrhoea	7

Tapeworms	6
Cryptosporidiosis	6
Nuisance flies	6
Midges	6
Asiatic red water	6
Heartwater	6
Lumpy skin disease	6
Blue tongue	6
Trichomonosis	6
Botulism	6
Pulpy kidney	6
Abortions	6
Trauma	6
Uterine prolaps	6
Vaginal prolaps	6
Resistant roundworms	5
Heartwater ticks	5
Mosquitoes	5
Sweating sickness	5
Protein deficiency	5
Blindness	5
Bloat	5
Joint ill	5
Metitis	5

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

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

Owner or authorised representative: .....

Signature: .....

Date: .....

\*\* \* Biosecurity

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

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

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

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

## **OVINE JOHNE'S DISEASE VENDOR DECLARATION**

### **ON THE SALE OF SHEEP**

(Updated Draft May 2015)

- |  |  |     |    |
|--|--|-----|----|
| 1. I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.                   | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| YES  | NO   |     |    |
| 2. The sheep for sale are clearly identified in the accompanying description.  | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| YES  | NO   |     |    |
| 3. The sheep for sale were born on my farm.  | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| YES  | NO   |     |    |
| 4. The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)  | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| YES  | NO   |     |    |
| 5. I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.                   | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| YES  | NO   |     |    |
| 6. I have actively looked for Ovine Johne's Disease and have had tests done for this.  | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| 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. | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO |
| 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. | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO    |
| YES  | NO   |     |       |
| 9. All lambs born are vaccinated   | <table border="1"><tr><td>YES</td><td>NO</td></tr></table> | YES | NO    |
| YES  | NO   |     |       |
| 10. If vaccinated, the number of years that the vaccinations have been done is   | <table border="1"><tr><td></td><td>years</td></tr></table> |     | years |
|  | years  |     |       |
- NOTE:** Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers.  
Statement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to other infected flocks by law.  
Buyers should consult their veterinary advisor before any purchases.

Signature \_\_\_\_\_

Date \_\_\_\_\_

NAME \_\_\_\_\_

Farm: \_\_\_\_\_

District: \_\_\_\_\_

OWNER OR AUTHORIZED  
REPRESENTATIVE

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



UNIVERSITEIT VAN PORTER  
UNIVERSITY OF PORTER  
UNIVERSITAT VAN PORTER



**RUVASA**  
Rural Veterinary Association of South Africa





# SOP for the control of Bovine Brucellosis

Audit date: \_\_\_\_\_

Authorised person: \_\_\_\_\_

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

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

Read what the Forum is all about:

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

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

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

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

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

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

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

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

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

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

This link will continuously be updated.

Information on **antibiotic resistance** is also available at this address:

<http://nahf.co.za/category/antibiotic-resistance/>

## **Ruminant Veterinary Association of South Africa**

[www.ruvasa.co.za](http://www.ruvasa.co.za)

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

## **Landbouweekblad's webpage**

[www.landbou.com](http://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 brucellose in 'n beeskudde

Boerderypraktyke wat die gevaar van die voorkoms van brucellose verhoog

Pak brucellose by die horings

Brucellose kan jou lewe verwoes

Brucellose in wild

Bestuur van positiewe besmetlike misgeboorte beeste

Aankoop van beeste wat besmetlike misgeboorte het

Antwoorde oor brucellose

Behandeling van besmetlike misgeboorte

Besmetlike misgeboorte uitbreek in 'n kudde

Gevaar van brucellose onderskat

RB51-inenting teen brucellose 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](http://www.wormx.info)

## **Farm gates, Fences and Foresight, the 3 F's!**

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

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

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

**Quarantine**

**Immunization programmes**

**Speak to your veterinarian**

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

**For the detailed report and previous reports go to [www.ruvasa.co.za](http://www.ruvasa.co.za) and click on Disease reporting**

**Internal parasites**

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

Internal parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Roundworms	x	x	x	x	x	x	x	x	
Resistant roundworms	x	x			x	x	x		
Wireworm	x	x	x	x	x	x	x	x	x
Brown stomach-worm									
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm							x		
Lungworm									
Eyeworm					x				
<i>Parafilaria</i>			x	x		x			x
Tapeworms	x	x	x		x	x	x		
Liver fluke	x		x		x	x			
Conical fluke	x				x	x			
Cysticercosis (measles)						x			

Schistosomiasis (bilharzia)									
Coccidiosis	x	x	x	x	x	x	x	x	
Cryptosporidiosis	x	x		x	x	x		x	

Deaths due to wireworm infestations have been reported from many areas in the summer rainfall area. Young and pregnant animals are the most vulnerable! Good rains have fallen in many areas and deaths due to wireworm infestations are reported.

Consult your veterinarian to determine which actives are effective against wireworm on YOUR farm.

**Nodular worm infestation was reported from the Steynsburg practice and farmers should be on the look out for nodules in the intestines of sheep at slaughter or animals dying for some or other reason! Contact your veterinarian immediately to discuss control measures!**

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.



Holistic internal  
parasite management

<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](https://docs.wixstatic.com/ugd/aded98_cb447e77eef6450f93a2b23cb0e6b9de.pdf)

[www.wormx.info](http://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](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	x		x	x	x	x	x	x	
Resistant blue ticks					x	x		x	
Heartwater ticks	x	x	x			x	x		
Brown ear-ticks	x	x	x	x	x	x			
Bont-legged ticks	x	x	x	x	x	x	x	x	x
Red-legged ticks	x			x	x	x	x	x	x
Paralysis ticks				x	x				
Tampans									
Biting lice									
Sucking lice				x					x
Fleas									
Itch mites									
Sheep scab					x				
Mange mites					x		x		
Nuisance flies	x			x	x	x	x	x	





Theileriosis						x			
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Asiatic red water 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		x	x	x	x	x			

The bont-legged tick's toxin is causing sweating sickness.

## Insect transmittable diseases

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

Insect transmittable diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Lumpy skin disease	x	x	x	x	x	x			
Ephemeral fever (Three-day-stiff sickness)	x	x	x	x	x	x	x		x
Blue tongue	x	x		x	x	x	x		
<b>Rift Valley Fever</b>									
Wesselsbron									
Nagana						x			

Insect transmittable diseases have increased after summer rains . Have you vaccinated your animals?

An increase in mosquito numbers were reported – beware of the first Rift Valley Fever outbreak – abortion storms and yellow carcasses. This is a zoonosis!

## 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	x		x	x	x	x	x		
Vibriosis				x	x	x			
Pizzle disease									
<i>Actinobacillus seminis</i> plus HPA							x		

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

**Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis were reported from 6 provinces and vibriosis from 45 provinces.**

Make sure that fences are in tact and gates closed so that bulls cannot escape to neighbouring cows that may be infected with *Trichomonas* 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
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<b>Anthrax</b>									
<b>Blackquarter</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	
<b>Botulism</b>			<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>
<b>Pulpy kidney</b>	<b>x</b>				<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>Lamb dysentery</b>									
<b>Swelled head</b>	<b>x</b>	<b>x</b>			<b>x</b>	<b>x</b>			
<b>Red gut (cattle)</b>	<b>x</b>					<b>x</b>		<b>x</b>	
<b>Blood gut (sheep)</b>					<b>x</b>			<b>x</b>	
<b>Tetanus</b>					<b>x</b>				
<b>Salmonellosis</b>									
<i><b>Klebsiella</b></i>									
<b>Bovine brucellosis</b>			<b>x</b>	<b>x</b>	<b>x</b>				
<i><b>Brucella melitensis</b></i> (goats)									
<b>Ovine brucellosis (Ram's disease)</b>							<b>x</b>	<b>x</b>	
<b>Bovine tuberculosis</b>			<b>x</b>						
<b>Johne's</b>						<b>x</b>			
<b>Leptospirosis</b>								<b>x</b>	
<b>Listeriosis</b>								<b>x</b>	
<i><b>Pseudomonas</b></i>									
<i><b>Pasteurella multocida</b></i>									
<b>Pasteurellosis (see pneumonia -lungs)</b>									
<i><b>Fusibacterium necrophorum</b></i>	<b>x</b>	<b>x</b>						<b>x</b>	
<b>Septicaemia</b>						<b>x</b>			
<i><b>E. coli</b></i>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	

<i>Klebsiella</i>									
<i>Coxiella</i>									
<i>Mycoplasma</i>									
Enzootic abortion	x				x				
Lumpy wool ( <i>Dermatophilus</i> )		x		x	x		x		
Bovine dermatophilosis (Senkobo disease)	x								
Uterine gangrene									
Wooden tongue									
Lumpy jaw									
Interdigital dermatitis									x

Multiclostridial vaccines should be used if blackquarter outbreaks still occur when only using a vaccine containing *Clostridium chauvoei*. Remember to give a booster vaccine when using an 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 latent 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:

<b>Viral diseases</b>	<b>MP</b>	<b>G</b>	<b>L</b>	<b>NW</b>	<b>FS</b>	<b>KZN</b>	<b>EC</b>	<b>WC</b>	<b>NC</b>
<b>BMC (snotsiekte)</b>				<b>x</b>	<b>x</b>	<b>x</b>			<b>x</b>
<b>Rabies (cattle)</b>									
<b>BVD</b>									
<b>IBR</b>		<b>x</b>				<b>x</b>			
<b>BRSV</b>				<b>x</b>				<b>x</b>	
<b>PI3</b>									
<b>Maedi visna virus</b>									
<b>Rotavirus</b>					<b>x</b>				
<b>Coronavirus</b>									
<b>Enzootic bovine leucosis (EBL)</b>					<b>x</b>	<b>x</b>		<b>x</b>	
<b>Sheep leucosis</b>									
<b>Jaagsiekte</b>									
<b>Orf</b>		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>Warts</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>

Herpes mammillitis - goats									
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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.

Orf is a zoonosis, wear gloves when treating goats and sheep.

## Fungal diseases

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

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

## Protozoal diseases

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

## Toxicities

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	WC	NC
Cardiac glycoside							x	x	
Slangkop									
<i>Crotalaria</i>									
Gifblaar			x						









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

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

Do have activated charcoal on the farm as the antidote for tulip poisoning! (**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	x	x	x
Protein		x				x	x	x	x
Phosphate									x
Calcium						x		x	

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

## Micro-nutritional and vitamin deficiencies

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

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

**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**

[illegible]



Yellow carcasses at abattoir									x
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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	x				x	x		x	
Displaced abomasum	x				x	x		x	
Ketosis (Domsiekte)					x	x		x	x
Milk fever					x	x		x	x

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

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)	x	x	x	x	x	x	x	x	x
Endometritis					x	x		x	
Metritis		x		x	x	x		x	
Hydrops									
Poor conception			x		x	x		x	
Retained afterbirth					x	x		x	
Sheath prolaps	x				x	x		x	

<b>Uterine prolaps</b>	<b>x</b>			<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>
<b>Vaginal prolaps</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	
<b>Penis injury</b>									
<b>Orchitis</b>									

**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

	<b>MP</b>	<b>G</b>	<b>L</b>	<b>NW</b>	<b>FS</b>	<b>KZN</b>	<b>EC</b>	<b>WC</b>	<b>NC</b>
<b>Exposure to cold</b>						<b>x</b>		<b>x</b>	
<b>Frozen to death</b>								<b>x</b>	
<b>Heat stress</b>	<b>x</b>					<b>x</b>	<b>x</b>	<b>x</b>	
<b>Lightning</b>	<b>x</b>			<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	
<b>Electrocution</b>									
<b>Drought</b>							<b>x</b>	<b>x</b>	<b>x</b>

### Other conditions

	<b>MP</b>	<b>G</b>	<b>L</b>	<b>NW</b>	<b>FS</b>	<b>KZN</b>	<b>EC</b>	<b>WC</b>	<b>NC</b>
<b>Dermatospraxis</b>									
<b>Genetic disorders</b>									
<b>Drug residues (milk, meat, liver, kidney etc)</b>							<b>x</b>		
<b>Preditors</b>	<b>x</b>				<b>x</b>				

Theft/Sabotage	x				x	x			
Trauma (fractures etc)	x	x							
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 bi-annually 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.

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## Practices that had nothing to report

Beestekraal – Dr. Alwyn Venter

Calvinia – Dr. Alwyn Venter

Cape Town – Dr. Sophette Gers

Gariep Dam – Dr. Marni Malan

George – Dr. Mark Chimes

Kuruman – Dr. Lea Shuda

Malalane – Drs. Van Sittert and Van Sittert

Vanderbylpark- Dr. Kobus Kok

Vryburg- Dr. Jurie Kritzinger

Wellington – Drs Van Zyl and Louw

## Ostriches

### Western Cape

#### Oudtshoorn

Tapeworms	2
Bont-legged ticks	3

Nuisance flies	3
Midges	1
Eye problems	Nuisance flies/ dust/ E coli. Severely affected sinusitis and conjunctivitis
Red gut	Feed intake up and down/ leads to GIT disturbance and Redgut – clostridial enteroxaemia
Red gut	3
Cryptosporidiosis	3
<i>E. coli</i>	2
Diarrhoea	2
Soil pica	High temp = high water intake = moist areas in camps and soil pica
Protein, Energy deficiency	3 - High temp result in feed refusal or poor intake – becomes a negative/ catabolic downward spiral
Rectal prolaps	Soil pica and heat stress = cryptosporidium overgrowth

## Equines

### Muldersdrift

African horse sickness – 1

Theileriosis - 2

### Pretoria

Eye infection - 2

## Limpopo

### Makhado

African Horse Sickness - 2

### Mokopane

Trauma – 1 Donkey

Laminitis – 2 Horses

## Western Cape

## **Oudtshoorn**

Colic – Five cases of impactin colic in farm horses – dry veldt grazing

## **Game**

### **Gauteng**

#### **Pretoria**

Internal parasites - 3

Resistant roundworms - 3

Heartwater ticks – 3

Brown ear-ticks – 3

Retained afterbirths - 1

### **Limpopo**

#### **Bela-Bela**

Trauma – Bluewildebeest injured (wound) during fighting

Sable died – no diagnosis, carcass decomposed

Mineral deficiency – Sable, lighter colour change

Ticks – Many ticks after rains on all animals

#### **Mokopane**

Diseased – 1 Sable

Cancer – 1 – Lioness

Diseased – 1 Sable

#### **Vaalwater**

Theileriosis – Three roan calves

### **Free State**

#### **Bloemhof**

Abortions – Sable probably due to heat stress

#### **Hertzogville**

Wireworm – 3 Sable

#### **Smithfield**

Rabies – White tailed mongoose (waaierstertmeerkat)

### **KwaZulu-Natal**

#### **Pongola**

Lightning - 1

### **Northern Cape**

#### **Kimberley**

Dystocia - Sable

### **Swine**

#### **Onderstepoort**

Mange – 11 pigs

**Monthly report on Livestock and Wildlife isolations for January 2020 from Vetdiagnostix –Microbiology Laboratory, supplied by dr. Marijke Henton**  
([henton@vetdx.co.za](mailto:henton@vetdx.co.za))

**Microbiology**

*Trueperella* [*Corynebacterium*, *Actinomyces*, *Arcanobacterium*] *pyogenes* can cause a variety of infections, such as abscesses, mastitis, metritis, abortion and pneumonia as well as being a co-infecter in cases of footrot. Although it is sensitive to most antibiotics, infections do not respond well to treatment, as penetration of the affected area by antibiotics is poor. Lipophilic antibiotics such as fluroquinolones and doxycycline are recommended, as they penetrate tissues better than water soluble antibiotics such as penicillins and cephalosporins.

*T. pyogenes* is a poor immunogen, and the only available vaccine [OBP] is not very effective, due to this. The vaccine is also labour intensive to administer, as it requires 3 initial vaccinations, 10 days apart, and thereafter a single vaccination every 6 months for the rest of the animal's life. A new needle is needed for every injection in an infected herd, as the bacterium is easily transferred between animals if a single needle is used for more than one animal.

*T. pyogenes* survives well in the environment. It can live at least a month on thorns and barbed wire, survives well on the mouthparts of ticks. It forms part of the normal flora of the skin and mucous membranes of animals.

*Trueperella pyogenes* can cause infections in most animals but is common in ruminants [farm and wildlife] and pigs and is also regularly isolated from horses in South Africa.

It is very difficult to control once it is found on a farm due to its insidious nature and the poor immunity it generates, and so biosecurity is crucial.

*T. pyogenes* was isolated from severe infections of the bovine penis.

Bovine pneumonia was due to *Pasteurella multocida* [2], *Klebsiella pneumoniae* and *Salmonella* Typhimurium, and septicaemia due to Haemorrhagic Septicaemia *P. multocida* type B and *Salmonella* Dublin. Enteritis was associated with *E. coli* [13], of which 4 were ESBL [Extended Spectrum Beta Lactamase] very resistant strains, and one together with *Cryptosporidium*.

*Moraxella bovis* was associated with keratoconjunctivitis in cattle.

Mastitis was due to *Staphylococcus aureus* [3], *Streptococcus uberis* [2], *S. dysgalactiae* [3], *Corynebacterium amycolatum* [3], *E. coli*, *Klebsiella pneumoniae* and *Aeromonas hydrophila* [an opportunist found in rivers and dams].

Clostridial myositis was due to *Clostridium chauvoei* [2] and *C. novyi* in cattle; *C. novyi* in a sheep and *C. novyi* as well as *C. sordellii* in a White Rhino.

*Bibersteinia trehalosi* [was *Pasteurella haemolytica* T] caused pneumonia in a sheep. Enteritis was associated with *E. coli* [6] in lambs, one of which was a very resistant ESBL strain, and another together with *Cryptosporidium*. Abscesses in goats were due to *Corynebacterium pseudotuberculosis*, *T. pyogenes* and *Staphylococcus pseudintermedius*.

*Streptococcus suis* caused pneumonia in a pig and *Pasteurella multocida* in another. *Streptococcus suis* was septicemic in a pig.

*Klebsiella pneumoniae* also caused pneumonia in a lion.

A White Rhino with an intractable conjunctivitis yielded a methicillin resistant *Staphylococcus aureus* and an ESBL positive *Aeromonas hydrophila*.

## Monthly report: Dr Theo Kotzé – Moqhaka (Kroonstad) district

### Veterinary Mastitis Consultant: Bovine Industry

[0827849706@vodamail.co.za](mailto:0827849706@vodamail.co.za)

0827849706

## DIAGNOSTIC REPORT : January 2020

### AMR: -milk

No new zoonotic or anti-microbial resistance of organisms found. No organisms of controlled diseases found.

Feedlot report received from Drs. Shaun Morris and Eben du Preez for January 2020 ([edupreez1@telkomsa.net](mailto:edupreez1@telkomsa.net))

Condition	Comments and Specie
Intestinal roundworms	O 3

Liver fluke	B 3
<i>Parafilaria</i>	B 3
Cysticercosis	B 1
Blue ticks	B 3
Bont ticks	B 3
Brown earticks	B 3
Red-legged ticks	B 3, O 3
Bont-legged ticks	B 3, O 3
Nuisance flies	B 3, O 3
Blowflies	O 3
Midges	B 3, O 3
Sheep scab	O 1
Sarcoptes mange	B 3
Itch mite	O 1
Cryptosporidiosis	B 1
African red water	B 2
Asiatic red water	B 3
Anaplasmosis	B 3
Blackleg	B 2
Red gut	B 3
Blood gut	O 3
Pulpy kidney	O 3
Swelled head	O 1
<i>E. coli</i>	B 3, O 3

Ringworm	B 3
BVD	B 3
EBL	B 1
Warts	B 3
Organophosphate poisoning	B 3
Abortion	B 2
Joint ill	B 3
Lameness	B 3, O 3
Lungs	B 3, O 3
Diarrhoea	B 3, O 3
Eyes	B 3, O 3
Abscesses	B 3, O 3
Dystocia	B 1
Heat stroke	B 1
Trauma	B 3, O 3
Pericarditis	B 3, O 3
Diseases reported by farmers: Cattle: Redwater, anaplasmosis, acidosis	
Sheep: Pneumonia, bloat, foot rot	
Game: Brown ear-tick -severe infestation	

**Monthly report for January 2020 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



SHEEP ADULT	LISTERIA	1	MOOI RIVER, KZN
BOVINE ADULT	BVD MUCOSAL DISEASE	1	GAUTENG
BOVINE CALVES	CRYPTOSPORIDIUM	1	HUMANSDORP, E CAPE
BOVINE ADULT	CESTRUM POISONING	1	HUMANSDORP, E CAPE
BOVINE ADULT	ACUTE RESPIRATORY DISTRESS SYNDROME	1	MIDDLEBURG, MPUMULANGA

WILDLIFE DISEASE SURVEILLANCE			
WILDLIFE SPECIES	DISEASE AGENT	NO. CASES	LOCATION
IMPALA LAMBS	CRYPTOSPORIDIOSIS	1	KROONSTAD, FREE STATE
WHITE RHINO, ADULT FEMALE	Genital leiomyoma	1	Grahamstown, E. Cape

**Monthly report on Livestock and Wildlife isolations for January 2020 from IDEXX Laboratories supplied by dr. Liza du Plessis ([Liza-DuPlessis@idexx.com](mailto:Liza-DuPlessis@idexx.com))**

Condition	Comments and Specie
Heartwater tick	B 1, E 1
Brown ear-tick	E 1
Red-legged tick	E 1
Red gut	B 1
Tuberculosis	B 1
<i>E. coli</i>	O 1
Gousiekte	B 1
Diarrhoea (bacterial)	O 1, P 1
Lung infection - bacterial	B 1, P 1
Equine sarcoid	E 1



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 25<sup>th</sup> Oct and 18<sup>th</sup> Dec 2019**

Cases from State vet Skukuza or Orpen (none)

Cases imported with master permit (none)

**Wildlife cases sent to referring veterinarians between 18<sup>th</sup> Dec 2019 and 29<sup>th</sup> Jan 2020**

Cases from State vet Skukuza or Orpen (none)

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
13-Dec-19	Nile Crocodile	Starvation	S4001-19
17-Dec-19	Cheetah	Suspected choke	S4026-19
18-Dec-19	Lion	Ovarian cysts, uterine smooth muscle hyperplasia	S4048-19
23-Dec-19	Cheetah	Possible hepatic steatosis	S4079-19
30-Dec-19	Lion	Starvation	S4116-19
30-Dec-19	Macaw	Suspected anaphylaxis	S4115-19
09-Jan-20	Cheetah	Chronic renal disease	S90-20
16-Jan-20	Lion	Ovarian atrophy, leiomyomas, cystic endometrial hyperplasia	S169-20
16-Jan-20	Lion	Ovarian atrophy, leiomyomas, cystic endometrial hyperplasia	S170-20
16-Jan-20	Lion	Conjunctivitis; insect bite eyelid dermatitis	s173-19

Kind regards,

Prof. Emily Mitchell

## DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

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## Internal Parasites

									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					2.5 (2)				

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

<b>Sheep</b>					2.5 (2)				
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### Free State

#### Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

#### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

## Roundworms in general

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)	2.0 (2)	1.0 (2)	2.3 (3)	2.4 (9)	1.6 (7)	1.8 (6)	2.0 (4)	

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

<b>Beef</b>	2.0 (1)					1.7 (3)			
<b>Dairy</b>					3.0 (1)				
<b>Sheep</b>	2.0 (1)	2.0 (2)	1.0 (1)	2.3 (3)	2.4 (7)	1.3 (3)	2.0 (3)	2.0 (4)	

<b>Goat</b>	<b>2.0 (1)</b>	<b>1.0 (1)</b>	<b>2.0 (1)</b>	<b>2.0 (1)</b>	<b>1.7 (3)</b>
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## **Mpumalanga**

### **Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2, Goat: 2

## **Gauteng**

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

Sheep: 3

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

Sheep: 1

## **Limpopo**

### **Polokwane, Pietersburg Veterinary Clinic**

Sheep: 1, Goat: 1

## **North West**

### **Christiana, Christiana Dierehospitaal**

Sheep: 1

### **Klerksdorp, Klerksdorp Dierehospitaal**

Sheep: 3

### **Ventersdorp, Ventersdorp Dierekliniek**

Sheep: 3

## **Free State**

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

Sheep: 3

### **Clocolan, Clocolan Dierekliniek**

Sheep: 1

### **Hoopstad, Hoopstad Dierekliniek**

Sheep: 3

### **Parys, Parys Dierehospitaal**

Sheep: 2, Goat: 2

### **Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 3

### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

### **Winburg, Winburg Dierekliniek**

Dairy: 3, Sheep: 3

## **Kwazulu-Natal**

### **Bergville, Tugela Vet Clinic**

Beef: 1, Sheep: 1

### **Howick, Howick Veterinary Clinic**

Sheep: 2

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

Beef: 2, Sheep: 1

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

Beef: 2, Goat: 2

## **Eastern Cape**

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

Sheep: 1, Goat: 1

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

Sheep: 2, Goat: 2

### **Uitenhage, Uitenhage Dierehospitaal**

Sheep: 3, Goat: 2

## **Western Cape**

### **Beaufort West, Beaufort Dierekliniek**

Sheep: 2

Severe *Nematodirus* infestation in Merino.

**Caledon, Caledon Dierekliniek**

Sheep: 2

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Moorreesburg, Tygerberg Moorreesburg**

Sheep: 2

**Resistant Round Worms**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)	2.5 (2)			2.5 (4)	1.0 (1)	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

<b>Sheep</b>		2.5 (2)			2.5 (4)	1.0 (1)	1.5 (2)		
<b>Goat</b>	1.0 (1)						1.5 (2)		

**Mpumalanga****Balfour, Balfour Dierekliniek**

Goat: 1

**Gauteng****Bronkhorstspuit, Kerkstraat Dierekliniek**

Sheep: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 3

**Free State****Bloemfontein, Dr Stephan Wessels**

Sheep: 2

**Hoopstad, Hoopstad Dierekliniek**

Sheep: 3

**Ladybrand, Ladybrand Dierekliniek**

Sheep: 3

**Reitz, Riemland Dierehospitaal**

Sheep: 2

**Kwazulu-Natal****Bergville, Tugela Vet Clinic**

Sheep: 1

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

Sheep: 1, Goat: 1

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

Sheep: 2, Goat: 2

**Wireworm**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	2.5 (6)	2.2 (5)	2.5 (2)	2.8 (5)	2.5 (10)	2.2 (5)	3.0 (1)	2.0 (1)	3.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>	2.5 (6)	2.7 (3)	2.5 (2)	2.8 (5)	2.5 (10)	2.0 (4)	3.0 (1)	2.0 (1)	3.0 (1)
<b>Goat</b>		1.5 (2)				3.0 (1)			

#### **Mpumalanga**

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

Sheep: 1

##### **Lydenburg, Longtom Dierekliniek**

Sheep: 3

##### **Middelburg, Neil Fourie Veeartsenydienste**

Sheep: 3

3 +++

##### **Piet Retief, Pets Vet Hospital**

Sheep: 2

##### **Standerton, Econovet**

Sheep: 3

##### **Volkstrust, Cape Cross Volkstrust Dierehospitaal**

Sheep: 3

Two died on one farm. On same farm lambs with *Cryptosporidium* diarrhoea

#### **Gauteng**

##### **Bronkhorstspuit, Kerkstraat Dierekliniek**

Sheep: 3, Goat: 1

##### **Hammanskraal, Themba Animal Clinic**

Sheep: 2, Goat: 2

##### **Muldersdrift, Muldersdrift Animal Hospital**

Sheep: 3

#### **Limpopo**

##### **Makhado, Blouberg Dierekliniek**

Sheep: 2

Six cases

##### **Mokopane, Bundu Veterinary Services**

Sheep: 3

#### **North West**

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

Sheep: 2

##### **Leeudoringstad, Leeudoringstad Dierekliniek**

Sheep: 3

##### **Ottosdal, Lakensvlei Dierehospitaal**

Sheep: 3

##### **Potchefstroom, Morvet**

Sheep: 3

##### **Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Sheep: 3

#### **Free State**

##### **Clocolan, Clocolan Dierekliniek**

Sheep: 1

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

Sheep: 3

##### **Frankfort, Frankfort Dierekliniek**





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

Free State
Clocolan, Clocolan Direkliniek
Beef: 1

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

**Mpumalanga**  
**Lydenburg, Longtom Dierekliniek**  
Beef: 2, Sheep: 2

**Standerton, Econovet**

Beef: 2, Sheep: 2

## Gauteng

**Bronkhorstspuit, Kerkstraat Dierkliniek**

Beef: 2

## Nigel, Welgelegen Dierkliniek

Sheep: 3

Lambs

## Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Sheep: 1, Goat: 1

## Free State

## Clocolan, Clocolan Dierekliniek

Sheep: 1

**Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 2

## Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

## Kwazulu-Natal

### Pietermaritzburg, Veterinary House Hospital

Beef: 2

## Eastern Cape

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

Goat: 2

**Steynsburg, Steynsburg Dierehospitaal**

Sheep: 3

Parafilaria									^
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)			3.0 (1)

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

Beef			2.0 (1)	3.0 (1)		2.0 (2)			3.0 (1)
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#### Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

#### North West

**Stella, Stella Dierekliniek**

Beef: 3

#### Kwazulu-Natal

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

#### Northern Cape

**Kimberley, Kimberley Dierekliniek**

Beef: 3

Seen at abattoir

Liver fluke									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)		1.0 (1)		2.0 (2)	2.0 (4)			

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

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

#### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

**Standerton, Econovet**

Beef: 2, Sheep: 2

#### Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

<b>Free State</b>
<b>Bloemfontein, Dr Stephan Wessels</b>
Beef: 2
<b>Smithfield, Freestate Smithfield SV</b>
Beef: 2
Mohokare
<b>Kwazulu-Natal</b>
<b>Howick, Howick Veterinary Clinic</b>
Beef: 2, Dairy: 2
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3

Conical Flukes									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.7 (3)	2.0 (2)			

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

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

<b>Mpumalanga</b>
<b>Balfour, Balfour Direkliniek</b>
Beef: 1
<b>Free State</b>
<b>Villiers, Wilgepoort Direkliniek Vennootskap</b>
Beef: 2, Sheep: 2
<b>Wesselsbron, Wesselsbron Direkliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 2
<b>Pietermaritzburg, Veterinary House Hospital</b>
Beef: 2

Cysticercosis									^
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

Beef						2.0 (1)			
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Dairy						2.0 (1)			
Kwazulu-Natal									
Howick, Howick Veterinary Clinic									
Beef: 2, Dairy: 2									
External Parasites									
Blue ticks									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (6)		2.3 (3)	2.5 (2)	2.7 (11)	2.8 (10)	2.3 (3)	2.7 (3)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.2 (5)		3.0 (1)	2.5 (2)	2.7 (9)	2.8 (9)	2.5 (2)	2.5 (2)	
Dairy						3.0 (1)		3.0 (1)	
Sheep	3.0 (1)		2.0 (1)		3.0 (2)		2.0 (1)		
Goat			2.0 (1)						
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
Grootvlei, Grootvlei Dierekliniek									
Beef: 2									
Lydenburg, Lydenburg Dierespreekkamer									
Beef: 3, Sheep: 3									
Nelspruit, Nelspruit Animal Hospital									
Beef: 2									
Standerton, Econovet									
Beef: 3									
Limpopo									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 3, Sheep: 2, Goat: 2									
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 2									
Ventersdorp, Ventersdorp Dierekliniek									
Beef: 3									
Free State									
Clocolan, Clocolan Dierekliniek									
Beef: 2									
Frankfort, Frankfort Dierekliniek									
Beef: 3									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3, Sheep: 3									
Ladybrand, Ladybrand Dierekliniek									
Beef: 3									
Memel, Memel Veterinary Clinic									

<b>Beef</b>		3.0 (1)	2.0 (2)	
<b>Dairy</b>				2.0 (1)
<b>Free State</b>				

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Western Cape****Caledon, Overberg Veterinary Hospital**

Dairy: 2

**Heartwater (Bont) ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	3.0 (5)	3.0 (3)			1.9 (16)	1.0 (1)		

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

Beef	2.3 (3)	3.0 (2)	3.0 (1)			2.0 (8)			
Dairy						2.0 (1)			
Sheep		3.0 (2)	3.0 (1)			1.3 (3)			
Goat		3.0 (1)	3.0 (1)			2.3 (4)	1.0 (1)		

**Mpumalanga****Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3

**Gauteng****Hammanskraal, Themba Animal Clinic**

Beef: 3, Sheep: 3, Goat: 3

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 3, Sheep: 3

**Limpopo****Polokwane, Pietersburg Veterinary Clinic**

Beef: 3, Sheep: 3, Goat: 3

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

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Camperdown, Camperdown Vet Clinic**

Beef: 2

**Dundee, Endumeni Herd health**

Beef: 2, Sheep: 1

**Howick, Howick Veterinary Clinic**

Beef: 1, Dairy: 2, Goat: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 3, Goat: 3

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Pongola, Pongola Animal Clinic**

Beef: 1, Sheep: 1, Goat: 1

### Eastern Cape

**Bathurst, Dr Jane Pistorius**

Goat: 1

Need ticks to maintain immunity

## Brown ear-ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (6)	2.5 (2)	3.0 (4)	2.5 (2)	2.0 (6)	2.6 (5)			

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

Beef	2.8 (6)	2.5 (2)	3.0 (2)	2.5 (2)	2.0 (6)	2.6 (5)			
Sheep			3.0 (1)						
Goat			3.0 (1)						

### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 3

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

**Piet Retief, Pets Vet Hospital**

Beef: 3

**Standerton, Econovet**

Beef: 3

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 3

### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 3

### Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3, Sheep: 3, Goat: 3

**Tzaneen, ZZ2 Farm Practice**

Beef: 3

### North West

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3

### Free State

**Clocolan, Clocolan Dierekliniek**

Beef: 1

**Memel, Memel Veterinary Clinic**

Beef: 2

**Parys, Parys Dierehospitaal**

Beef: 3

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2

**Vrede, Vrede Dierehospitaal**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 3

**Estcourt, Estcourt Vet Clinic**

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

**Bont-legged ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.5 (2)	2.4 (5)	3.0 (4)	2.9 (8)	2.7 (15)	2.3 (4)	3.0 (2)	2.0 (2)	3.0 (1)

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

<b>Beef</b>	1.5 (2)	2.3 (3)	3.0 (2)	2.8 (6)	2.6 (10)	2.3 (4)	3.0 (1)	2.0 (1)	3.0 (1)
<b>Sheep</b>		2.5 (2)	3.0 (1)	3.0 (2)	2.8 (5)		3.0 (1)	2.0 (1)	
<b>Goat</b>			3.0 (1)						

**Mpumalanga****Balfour, Balfour Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Gauteng****Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 3

**Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Beef: 2

Tick bite wounds

**Muldersdrift, Muldersdrift Animal Hospital**

Sheep: 3

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 2, Sheep: 2

**Limpopo**



**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3, Sheep: 3, Goat: 3

**Tzaneen, ZZ2 Farm Practice**

Beef: 3

**North West****Christiana, Christiana Dierehospitaal**

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 3

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 2

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 3

**Stella, Stella Dierekliniek**

Beef: 3, Sheep: 3

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3

**Free State****Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 2

**Parys, Parys Dierehospitaal**

Beef: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 3

**Dundee, Endumeni Herd health**

Beef: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

**Eastern Cape****Steynsburg, Steynsburg Dierehospitaal**

Beef: 3, Sheep: 3

**Western Cape****Beaufort West, Beaufort Dierekliniek**

Sheep: 2

**Malmesbury, Groenkloof Dierekliniek**

Beef: 2

Piketberg

### Northern Cape

**Postmasburg, Postmasburg Dierekliniek**

Beef: 3

### Red-legged ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			3.0 (2)	2.6 (7)	2.3 (3)	2.0 (1)	2.0 (1)	3.0 (1)

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

Beef	3.0 (1)			3.0 (2)	2.5 (4)	2.3 (3)		2.0 (1)	3.0 (1)
Sheep					2.7 (3)				
Goat							2.0 (1)		

### Mpumalanga

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

### North West

**Christiana, Christiana Dierehospitaal**

Beef: 3

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 3

### Free State

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 2, Sheep: 2

**Parys, Parys Dierehospitaal**

Beef: 3, Sheep: 3

### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 3

### Eastern Cape

**Bathurst, Dr Jane Pistorius**

Goat: 2

### Western Cape

**Malmesbury, Groenkloof Dierekliniek**

Beef: 2

### Northern Cape

**Kathu, Kathu Dierekliniek**

Beef: 3

Paralysis ticks									<a href="#">^</a>
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 importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					1.0 (1)				
Sheep				1.0 (1)	1.5 (2)				
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Sheep: 1									
Free State									
Frankfort, Frankfort Dierekliniek									
Sheep: 2									
Reitz, Riemland Dierehospitaal									
Beef: 1									
Villiers, Wilgepoort Dierekliniek Vennootskap									
Sheep: 1									
Sucking lice (blue lice)									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)					3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef				2.0 (1)					
Goat									3.0 (1)
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 2									
Northern Cape									
Postmasburg, Postmasburg Dierekliniek									
Goat: 3									
Scab mites									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)				

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

<b>Sheep</b>	3.0 (1)
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#### Free State

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 3

Already reported to State veterinarian, sheep bought in from the Eastern Cape

#### Mange Mites

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					2.0 (1)		2.0 (1)		

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

<b>Beef</b>					2.0 (1)		2.0 (1)		
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#### Free State

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2

#### Eastern Cape

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

#### Nuisance Flies

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.6 (5)			3.0 (2)	2.6 (7)	2.3 (12)	2.0 (1)	2.7 (7)	

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

<b>Beef</b>	2.5 (4)			3.0 (1)	2.5 (4)	2.4 (7)	2.0 (1)	2.0 (1)	
<b>Dairy</b>					3.0 (1)	3.0 (3)		3.0 (5)	
<b>Sheep</b>	3.0 (1)			3.0 (1)	2.5 (2)	1.0 (1)		2.0 (1)	
<b>Goat</b>						1.0 (1)			

#### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 3									
Lydenburg, Lydenburg Dieresprekkamer									
Beef: 3, Sheep: 3									
Nelspruit, Nelspruit Animal Hospital									
Beef: 2									
North West									
Christiana, Christiana Dierehospitaal									
Beef: 3, Sheep: 3									
Free State									
Clocolan, Clocolan Dierekliniek									
Beef: 2									
Kroonstad, Kroonstad Dierehospitaal									
Beef: 3, Dairy: 3, Sheep: 3									
Villiers, Wilgepoort Dierekliniek Vennootskap									
Beef: 2, Sheep: 2									
Winburg, Winburg Dierekliniek									
Beef: 3									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 3									
Dundee, Endumeni Herd health									
Beef: 2, Dairy: 3									
Howick, Howick Veterinary Clinic									
Beef: 3, Dairy: 3									
Mtubatuba, Mtubatuba Animal Clinic									
Beef: 2									
Pietermaritzburg, Veterinary House Hospital									
Beef: 3									
Pongola, Pongola Animal Clinic									
Beef: 1, Sheep: 1, Goat: 1									
Underberg, Underberg Veterinary Surgery									
Beef: 3, Dairy: 3									
Eastern Cape									
Alexandria, Alexandria Platteland Spreekkamer									
Beef: 2									
Western Cape									
George, George Animal Hospital									
Dairy: 3									
Malmesbury, Dr Otto Kriek									
Dairy: 3									
Malmesbury, Groenkloof Dierekliniek									
Dairy: 3									
Malmesbury, Malmesbury Dierehospitaal									
Dairy: 3									
Oudtshoorn, Oudtshoorn Dierekliniek									
Beef: 2, Sheep: 2									
Swellendam, Swellendam Dierehospitaal									
Dairy: 3									
Blowflies									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

<b>Average</b>	2.4 (5)	2.4 (5)	2.5 (4)	2.3 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	2.3 (3)	2.5 (2)	3.0 (1)	2.0 (1)
<b>Dairy</b>			2.0 (1)	3.0 (1)
<b>Sheep</b>	2.5 (2)	2.3 (3)	2.5 (2)	2.0 (1)

#### **Mpumalanga**

##### **Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2

##### **Lydenburg, Longtom Dierekliniek**

Beef: 2

##### **Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3, Sheep: 3

#### **Free State**

##### **Clocolan, Clocolan Dierekliniek**

Beef: 2

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

Sheep: 3

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

Sheep: 2

##### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

##### **Winburg, Winburg Dierekliniek**

Beef: 3

#### **Kwazulu-Natal**

##### **Howick, Howick Veterinary Clinic**

Dairy: 2, Sheep: 2

##### **Underberg, Underberg Veterinary Surgery**

Beef: 3, Sheep: 3

#### **Western Cape**

##### **Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

##### **Oudtshoorn, Oudtshoorn Dierekliniek**

Beef: 2, Sheep: 2

#### **Screw-worm**



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)				2.0 (2)				

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

<b>Beef</b>	1.0 (1)
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Sheep

2.0  
(2)

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 1

Free State

Reitz, Riemland Dierehospitaal

Sheep: 2

Senekal, Senekal Direkliniek

Sheep: 2

Nasal bot larvae

^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			3.0 (2)	2.3 (6)	2.0 (1)		1.0 (1)	

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

Sheep	3.0 (1)			3.0 (2)	2.3 (6)	2.0 (1)		1.0 (1)	
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Mpumalanga

Lydenburg, Longtom Direkliniek

Sheep: 3

North West

Leeudoringstad, Leeudoringstad Direkliniek

Sheep: 3

Ottosdal, Lakensvlei Dierehospitaal

Sheep: 3

Free State

Hoopstad, Hoopstad Direkliniek

Sheep: 3

Ladybrand, Ladybrand Direkliniek

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 2

Senekal, Senekal Direkliniek

Sheep: 1

Villiers, Wilgepoort Direkliniek Vennootskap

Sheep: 3

Wesselsbron, Wesselsbron Direkliniek

Sheep: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 2

Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

Midges

^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (7)			3.0 (5)	2.2 (5)	3.0 (4)	3.0 (2)	1.7 (3)	

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

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

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

##### Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

##### Standerton, Econovet

Beef: 3, Sheep: 3

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

##### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

##### Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3

#### Free State

##### Clocolan, Clocolan Dierekliniek

Beef: 3

##### Memel, Memel Veterinary Clinic

Beef: 1

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

##### Winburg, Winburg Dierekliniek

Beef: 3

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 3

##### Howick, Howick Veterinary Clinic

Beef: 3, Dairy: 3, Sheep: 3

#### Eastern Cape

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

Sheep: 3, Goat: 3

#### Western Cape

##### Beaufort West, Beaufort Dierekliniek

Sheep: 3

##### Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1, Sheep: 1



## Mosquitoes

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

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

Beef	3.0 (2)			3.0 (1)	2.7 (3)	3.0 (1)			
Sheep	3.0 (2)				2.5 (2)			3.0 (1)	

### Mpumalanga

#### Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

#### Standerton, Econovet

Beef: 3, Sheep: 3

### North West

#### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

### Free State

#### Clocolan, Clocolan Dierekliniek

Beef: 3

#### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

#### Wesselsbron, Wesselsbron Dierekliniek

Beef: 3, Sheep: 3

### Kwazulu-Natal

#### Bergville, Bergville Veterinary Clinic

Beef: 3

### Western Cape

#### Beaufort West, Beaufort Dierekliniek

Sheep: 3

Good rains in parts of the Karoo had to effect that there is a massive count of midges and mosquitoes that is seen. Farmers concerned about Bluetongue and RVF

## Tick-borne Diseases

### African red water

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	1.5 (2)	1.5 (2)	1.5 (2)	2.5 (4)	2.3 (14)	2.0 (1)	1.7 (3)	

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

Beef	2.2 (6)	1.5 (2)	1.5 (2)	1.5 (2)	2.5 (4)	2.3 (11)		1.5 (2)
Dairy						2.3 (3)	2.0 (1)	2.0 (1)
Mpumalanga								
Grootvlei, Grootvlei Dierekliniek								
Beef: 2								
Hendrina, Mooiplaas Veterinêre Dienste								
Beef: 2								
Lydenburg, Longtom Dierekliniek								
Beef: 3								
Lydenburg, Lydenburg Dieresprekkamer								
Beef: 2								
Nelspruit, Nelspruit Animal Hospital								
Beef: 2								
Piet Retief, Pets Vet Hospital								
Beef: 2								
Gauteng								
Hammanaskraal, Themba Animal Clinic								
Beef: 1								
Muldersdrift, Muldersdrift Animal Hospital								
Beef: 2								
Babesia in cattle - species not mentioned								
Limpopo								
Makhado, Blouberg Dierekliniek								
Beef: 2								
Three cases								
Polokwane, Pietersburg Veterinary Clinic								
Beef: 1								
North West								
Klerksdorp, Klerksdorp Dierehospitaal								
Beef: 1								
Potchefstroom, Morvet								
Beef: 2								
Free State								
Frankfort, Frankfort Dierekliniek								
Beef: 3								
Parys, Parys Dierehospitaal								
Beef: 2								
Villiers, Wilgepoort Dierekliniek Vennootskap								
Beef: 2								
Vrede, Vrede Dierehospitaal								
Beef: 3								
Kwazulu-Natal								
Bergville, Bergville Veterinary Clinic								
Beef: 3								
Bergville, Tugela Vet Clinic								
Beef: 2								
Dundee, Endumeni Herd health								
Beef: 2, Dairy: 2								
Eshowe, Eshowe Veterinary Hospital								
Dairy: 2								
Dairy calves								
Howick, Howick Veterinary Clinic								
Beef: 3, Dairy: 3								

**Kokstad, Kokstad Veterinary Clinic**

Beef: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Newcastle, Ncanduvet Newcastle**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

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

Dairy: 2

**Western Cape****Caledon, Caledon Dierekliniek**

Beef: 2

**Caledon, Overberg Veterinary Hospital**

Dairy: 2

**George, George Animal Hospital**

Beef: 1

**Asiatic red water**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.1 (10)		1.7 (3)	2.7 (3)	2.0 (4)	1.9 (12)	2.0 (1)		

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

<b>Beef</b>	2.1 (10)		1.7 (3)	2.7 (3)	1.7 (3)	1.9 (10)	2.0 (1)		
<b>Dairy</b>					3.0 (1)	2.0 (2)			

**Mpumalanga****Balfour, Balfour Dierekliniek**

Beef: 1

**Bethal, Bethal Dierekliniek**

Beef: 2

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Hendrina, Mooiplaas Veterinêre Dienste**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2

**Piet Retief, Pets Vet Hospital**

Beef: 3

**Standerton, Econovet**

Beef: 3

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 3

Three farms, 10 died. Anaplasmosis plus red water on one farm, 3 calves 7 weeks old died

**Limpopo**

**Makhado, Blouberg Dierekliniek**

Beef: 2

Two cases

**Mokopane, Bundu Veterinary Services**

Beef: 2

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

**North West**

**Brits, Brits Dierekliniek**

Beef: 3

**Potchefstroom, Morvet**

Beef: 2

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3

**Free State**

**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 1

**Frankfort, Frankfort Dierekliniek**

Dairy: 3

**Parys, Parys Dierehospitaal**

Beef: 2

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2

**Camperdown, Camperdown Vet Clinic**

Beef: 2

cerebral

**Dundee, Endumeni Herd health**

Beef: 2, Dairy: 2

**Estcourt, Estcourt Vet Clinic**

Beef: 1

**Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 2

**Kokstad, Kokstad Veterinary Clinic**

Beef: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Eastern Cape**

**Stutterheim, Stutterheim Veterinary Clinic**

Beef: 2

Acute

**Anaplasmosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.7 (3)	2.0 (1)	2.3 (8)	2.1 (16)	2.1 (10)	2.0 (3)	1.5 (6)	

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

Beef	1.5 (2)	1.7 (3)	2.0 (1)	2.3 (8)	2.2 (14)	2.0 (7)	2.0 (3)	1.7 (3)	
Dairy					1.5 (2)	2.3 (3)		1.3 (3)	

**Mpumalanga****Bethal, Bethal Dierekliniek**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Gauteng****Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 1

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

Beef: 2

Two cases

**Limpopo****Makhado, Blouberg Dierekliniek**

Beef: 2

Two cases

**North West****Christiana, Christiana Dierehospitaal**

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 1

Bull

**Lichtenburg, Dr CM Kruger-Rall**

Beef: 2

Two outbreaks

**Potchefstroom, Morvet**

Beef: 2

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 2

**Stella, Stella Dierekliniek**

Beef: 3

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3

### **Free State**

**Bloemfontein, Dr Stephan Wessels**

Beef: 3

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Frankfort, Frankfort Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

**Ladybrand, Ladybrand Dierekliniek**

Beef: 2

**Memel, Memel Veterinary Clinic**

Beef: 3

**Parys, Parys Dierehospitaal**

Beef: 2

**Reitz, Riemland Dierehospitaal**

Beef: 2, Dairy: 2

**Senekal, Senekal Dierekliniek**

Beef: 2, Dairy: 1

**Smithfield, Freestate Smithfield SV**

Beef: 2

Mohokare

**Vrede, Vrede Dierehospitaal**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

### **Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2

**Camperdown, Camperdown Vet Clinic**

Beef: 1

**Dundee, Endumeni Herd health**

Dairy: 2

**Estcourt, Estcourt Vet Clinic**

Dairy: 2

**Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 3

Acute deaths

### **Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 3

**Aliwal North, Hertzogbrug Dierekliniek**

Beef: 2

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

Beef: 1

#### Western Cape

**Ceres, Ceres Veterinary Hospital**

Beef: 2

Cows

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Groenkloof Dierekliniek**

Beef: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 2

### Heartwater



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)	1.8 (6)	2.2 (6)	3.0 (1)		2.0 (21)	1.9 (7)		

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

Beef	2.3 (3)	1.5 (2)	2.3 (4)	3.0 (1)		2.1 (9)	2.0 (3)		
Dairy						2.0 (1)	2.0 (1)		
Sheep	2.0 (2)	2.5 (2)	2.0 (1)			1.8 (4)	2.0 (2)		
Goat		1.5 (2)	2.0 (1)			1.9 (7)	1.0 (1)		

#### Mpumalanga

**Lydenburg, Longtom Dierekliniek**

Beef: 3, Sheep: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2, Sheep: 2

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

**Hammanskraal, Themba Animal Clinic**

Sheep: 2, Goat: 1

**Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Beef: 2

Cows

Goat: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 3

#### Limpopo

**Makhado, Blouberg Dierekliniek**

Beef: 3

Twelve cases

<b>Mokopane, Bundu Veterinary Services</b>									
Beef: 1									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 2, Sheep: 2, Goat: 2									
<b>Tzaneen, ZZ2 Farm Practice</b>									
Beef: 3									
<b>North West</b>									
<b>Brits, Brits Dierekliniek</b>									
Beef: 3									
<b>Kwazulu-Natal</b>									
<b>Bergville, Bergville Veterinary Clinic</b>									
Beef: 3									
<b>Bergville, Tugela Vet Clinic</b>									
Beef: 2, Sheep: 2, Goat: 2									
<b>Camperdown, Camperdown Vet Clinic</b>									
Goat: 1									
<b>Dundee, Endumeni Herd health</b>									
Beef: 2, Sheep: 2, Goat: 2									
<b>Eshowe, Eshowe Veterinary Hospital</b>									
Beef: 2									
Beef cows									
<b>Estcourt, Estcourt Vet Clinic</b>									
Beef: 2, Goat: 2									
<b>Howick, Howick Veterinary Clinic</b>									
Beef: 2, Dairy: 2, Goat: 3									
<b>Kokstad, Kokstad Veterinary Clinic</b>									
Sheep: 2									
Heartwater in some sheep that were driven up from Umzimkulu about 50km from Kokstad. Heartwater was not diagnosed in Kokstad area before									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 3, Goat: 2									
<b>Pongola, Pongola Animal Clinic</b>									
Beef: 1, Sheep: 1, Goat: 1									
<b>Vryheid, Vryheid Privaat Veeartse</b>									
Beef: 2									
<b>Eastern Cape</b>									
<b>Adelaide, Adelaide Veterinary Clinic</b>									
Beef: 2									
<b>Alexandria, Alexandria Platteland Spreekkamer</b>									
Beef: 1									
<b>Alexandria, Riverview Trading Vet Consulting Services</b>									
Beef: 3, Dairy: 2, Sheep: 2									
<b>Stutterheim, Stutterheim Veterinary Clinic</b>									
Sheep: 2									
Heartwater in flock of lambs									
<b>Uitenhage, Uitenhage Dierehospitaal</b>									
Goat: 1									
<b>Sweating Sickness</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>



<b>Average</b>		2.0 (1)	1.8 (4)	2.0 (5)	1.8 (5)	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>		2.0 (1)	1.8 (4)	2.0 (5)	1.8 (5)	2.0 (1)
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<b>Gauteng</b>									
<b>Magaliesburg, Magaliesburg; Dr Ryan Jeffrey</b>									
Beef: 2									
<b>Limpopo</b>									
<b>Makhado, Blouberg Dierekliniek</b>									
Beef: 2									
Eight cases									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Beef: 2									
<b>Tzaneen, ZZ2 Farm Practice</b>									
Beef: 2									
<b>Vaalwater, Vaalwater Dieresprekkamer</b>									
Beef: 1									
<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3									
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>									
Beef: 2									
<b>Leeudoringstad, Leeudoringstad Dierekliniek</b>									
Beef: 2									
<b>Potchefstroom, Morvet</b>									
Beef: 2									
<b>Schweizer-Reneke, Buffeldoorn Dierekliniek SR</b>									
Beef: 1									
<b>Free State</b>									
<b>Bloemfontein, Dr Stephan Wessels</b>									
Beef: 1									
<b>Hertzogville, Hertzogville Dierekliniek</b>									
Beef: 2									
Four calves									
<b>Kroonstad, Kroonstad Dierehospitaal</b>									
Beef: 2									
<b>Senekal, Senekal Dierekliniek</b>									
Beef: 2									
<b>Winburg, Winburg Dierekliniek</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Eshowe, Eshowe Veterinary Hospital</b>									
Beef: 2									
7 cases in Hartebeespoort area									

## Theileriosis



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average							1.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef							1.0 (1)		
Kwazulu-Natal									
Camperdown, Camperdown Vet Clinic									
Beef: 1									
Insect Transmittable Diseases									
Lumpy skin disease							<a href="#">^</a>		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)	3.0 (1)	2.0 (2)	2.1 (7)	1.7 (3)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.0 (1)	2.0 (1)	3.0 (1)	2.0 (2)	2.2 (6)	1.5 (2)			
Dairy					2.0 (1)	2.0 (1)			
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Beef: 2									
Gauteng									
Bronkhorstspuit, Kerkstraat Dierekliniek									
Beef: 2									
Limpopo									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 3									
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 1									
Potchefstroom, Morvet									
Beef: 3									
Free State									
Clocolan, Clocolan Dierekliniek									
Beef: 2, Dairy: 2									
Ficksburg, Oosvrystaat Diere Produkte									
Beef: 1									
Hertzogville, Hertzogville Dierekliniek									
Beef: 2									
Six cases									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3									
Viljoenskroon, Viljoenskroon Dierekliniek									
Beef: 2									

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 1

**Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 2

**Three-day-stiffsickness**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)	3.0 (1)	2.5 (2)	2.6 (5)	2.5 (11)	1.8 (4)	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

<b>Beef</b>	1.0 (1)	3.0 (1)	2.5 (2)	2.6 (5)	2.5 (11)	1.7 (3)	1.0 (1)		1.0 (1)
<b>Dairy</b>						2.0 (1)			

**Mpumalanga****Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Gauteng****Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 3

**Limpopo****Modimolle, Kranskop Dierekliniek**

Beef: 3

Three farms

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

**North West****Bloemhof, Bloemhof Dierekliniek**

Beef: 3

**Christiana, Christiana Dierhospitaal**

Beef: 3

**Klerksdorp, Klerksdorp Dierhospitaal**

Beef: 1

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 3

Numerous cases, one bull - R185 000,00; survived

**Potchefstroom, Morvet**

Beef: 3

**Free State****Bloemfontein, Dr Stephan Wessels**

Beef: 3

**Bultfontein, Greylingrust Dierespreekkamer**

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 3

**Frankfort, Frankfort Dierekliniek**

Beef: 1
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
<b>Ladybrand, Ladybrand Dierekliniek</b>
Beef: 3
<b>Reitz, Riemland Dierehospitaal</b>
Beef: 2
<b>Senekal, Senekal Dierekliniek</b>
Beef: 2
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Beef: 3
<b>Wesselsbron, Wesselsbron Dierekliniek</b>
Beef: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 2
<b>Bergville, Tugela Vet Clinic</b>
Beef: 1
<b>Camperdown, Camperdown Vet Clinic</b>
Beef: 2
<b>Howick, Howick Veterinary Clinic</b>
Dairy: 2
<b>Eastern Cape</b>
<b>Aliwal North, Hertzogbrug Dierekliniek</b>
Beef: 1
<b>Northern Cape</b>
<b>Kathu, Kathu Dierekliniek</b>
Beef: 1

Blue tongue									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (4)	2.5 (6)		1.8 (5)	1.9 (8)	2.0 (1)	2.0 (2)		

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

Beef		2.0 (1)		3.0 (1)	1.0 (1)				
Sheep	2.3 (4)	2.6 (5)		1.5 (4)	2.0 (7)	2.0 (1)	2.0 (2)		

<b>Mpumalanga</b>
<b>Lydenburg, Longtom Dierekliniek</b>
Sheep: 2
<b>Middelburg, Neil Fourie Veeartsenydienste</b>
Sheep: 2
<b>Piet Retief, Pets Vet Hospital</b>
Sheep: 3
<b>Standerton, Econovet</b>

Sheep: 2									
<b>Gauteng</b>									
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>									
Sheep: 2									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Sheep: 3									
<b>Magaliesburg, Magaliesburg; Dr Ryan Jeffrey</b>									
Beef: 2									
Possible blue tongue in Wagyu calves									
Sheep: 3									
<b>Pretoria, Anima Veterinary Consulting Rooms</b>									
Sheep: 3									
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>									
Sheep: 2									
Nine cases									
<b>North West</b>									
<b>Brits, Brits Dierekliniek</b>									
Sheep: 2									
<b>Christiana, Christiana Dierehospitaal</b>									
Sheep: 2									
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>									
Sheep: 1									
<b>Lichtenburg, Dr CM Kruger-Rall</b>									
Sheep: 1									
One outbreak									
<b>Potchefstroom, Morvet</b>									
Beef: 3									
<b>Free State</b>									
<b>Bloemfontein, Dr Stephan Wessels</b>									
Sheep: 2									
<b>Bultfontein, Greylingrust Dieresprekkamer</b>									
Beef: 1, Sheep: 1									
<b>Ficksburg, Oosvrystaat Dierse Produkte</b>									
Sheep: 3									
<b>Kroonstad, Kroonstad Dierehospitaal</b>									
Sheep: 3									
<b>Ladybrand, Ladybrand Dierekliniek</b>									
Sheep: 1									
<b>Senekal, Senekal Dierekliniek</b>									
Sheep: 1									
<b>Winburg, Winburg Dierekliniek</b>									
Sheep: 3									
<b>Kwazulu-Natal</b>									
<b>Camperdown, Camperdown Vet Clinic</b>									
Sheep: 2									
<b>Eastern Cape</b>									
<b>Alexandria, Riverview Trading Vet Consulting Services</b>									
Sheep: 2									
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>									
Sheep: 2									
<b>Nagana</b>									
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>

Average								2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef								2.0 (1)	
Kwazulu-Natal									
Mtubatuba, Mtubatuba Animal Clinic									
Beef: 2									
Venereal Diseases									
Actinobacillus seminis									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef								2.0 (1)	
Eastern Cape									
Stutterheim, Stutterheim Veterinary Clinic									
Beef: 2									
Two bulls									
Trichomonosis									<a href="#">^</a>
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)	2.8 (4)	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			1.0 (1)	3.0 (1)	2.8 (4)	1.0 (2)	2.0 (1)		
Goat	2.0 (1)								
Mpumalanga									
Ermelo, Môregloed Veterinêre Spreekkamer									
Goat: 2									
Limpopo									
Makhado, Blouberg Direklyniek									
Beef: 1									
North West									
Stella, Stella Direklyniek									
Beef: 3									
Free State									
Frankfort, Frankfort Direklyniek									
Beef: 3									

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 1

**Dundee, Endumeni Herd health**

Beef: 1

**Eastern Cape****Stutterheim, Stutterheim Veterinary Clinic**

Beef: 2

Two bulls

**Vibriosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	1.8 (6)	1.0 (1)			

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

Beef				3.0 (1)	1.8 (6)	1.0 (1)			
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**North West****Stella, Stella Dierekliniek**

Beef: 3

**Free State****Bloemfontein, Dr Stephan Wessels**

Beef: 1

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Hertzogville, Hertzogville Dierekliniek**

Beef: 2

Five positive bulls on one farm

**Senekal, Senekal Dierekliniek**

Beef: 1

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 1

**Bacterial Disease (other)****Blackquarter**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)		1.5 (2)	1.2 (5)	2.3 (4)	2.0 (1)	1.0 (1)	

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

Beef	2.0 (1)	1.0 (1)		1.5 (2)	1.2 (5)	2.0 (3)	2.0 (1)	1.0 (1)	
Dairy						3.0 (1)			

#### Mpumalanga

##### Piet Retief, Pets Vet Hospital

Beef: 2

#### Gauteng

##### Hammanskraal, Themba Animal Clinic

Beef: 1

#### North West

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

##### Rustenburg, Bergbos Dierekliniek

Beef: 2

#### Free State

##### Clocolan, Clocolan Dierekliniek

Beef: 1

##### Memel, Memel Veterinary Clinic

Beef: 1

##### Senekal, Senekal Dierekliniek

Beef: 1

##### Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

##### Winburg, Winburg Dierekliniek

Beef: 2

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 2

##### Bergville, Tugela Vet Clinic

Beef: 1

##### Howick, Howick Veterinary Clinic

Dairy: 3

##### Mooi River, Mooirivier Vet Clinic

Beef: 3

#### Eastern Cape

##### Adelaide, Adelaide Veterinary Clinic

Beef: 2

#### Western Cape

##### Darling, Tygerberg Dierehospitaal Darling

Beef: 1

## Botulism





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

#### Limpopo

##### Vaalwater, Vaalwater Dieresprekkamer

Beef: 2

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 2

#### Free State

##### Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

##### Hoopstad, Hoopstad Dierekliniek

Beef: 2

##### Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Bultfontein district

#### Kwazulu-Natal

##### Newcastle, Ncanduvet Newcastle

Beef: 1

#### Western Cape

##### Piketberg, Piketberg Dierehospitaal

Sheep: 3

80 ewes died, baboon drowned in water reservoir

#### Northern Cape

##### Kimberley, Kimberley Dierekliniek

Beef: 1

##### Upington, Upington Veeartsenykliniek

Sheep: 2

Botulism in feedlot, 4 out of 120 sheep died. Suspect lucerne bale could be the source - snake, rat etc. in bales

Pulpy Kidney									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)				1.8 (6)	2.0 (1)	1.3 (3)	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

Sheep	2.0 (2)				1.8 (6)	2.0 (1)	1.5 (2)	2.0 (1)	3.0 (1)
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Goat					1.0 (1)				
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Sheep: 2									
Volksrust, Cape Cross Volksrust Dierehospitaal									
Sheep: 2									
Free State									
Bloemfontein, Dr Stephan Wessels									
Sheep: 2									
Kroonstad, Kroonstad Dierehospitaal									
Sheep: 2									
Reitz, Riemland Dierehospitaal									
Sheep: 2									
Senekal, Senekal Dierekliniek									
Sheep: 2									
Viljoenskroon, Viljoenskroon Dierekliniek									
Sheep: 1									
Villiers, Wilgepoort Dierekliniek Vennootskap									
Sheep: 2									
Kwazulu-Natal									
Vryheid, Vryheid Privaat Veeartse									
Sheep: 2									
Eastern Cape									
Adelaide, Adelaide Veterinary Clinic									
Sheep: 2									
Graaff-Reinet, Camdeboo Veterinary Clinic									
Sheep: 1, Goat: 1									
Western Cape									
Beaufort West, Beaufort Dierekliniek									
Sheep: 2									
Northern Cape									
Colesberg, Karoo Veterinary Hospital									
Sheep: 3									
Swelled head disease									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (2)			1.5 (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)	2.0 (1)			1.0 (1)	2.0 (2)			
Sheep		2.0 (1)			2.0 (1)	1.0 (2)			
Mpumalanga									
Standerton, Econovet									
Beef: 2									
Gauteng									
Bronkhorstspuit, Kerkstraat Dierekliniek									

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

#### Free State

**Bultfontein, Greylingrust Dierspreekkamer**

Sheep: 2

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 1

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Sheep: 1

**Newcastle, Ncanduvet Newcastle**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Sheep: 1

### Red gut (cattle)

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

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

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

#### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Howick, Howick Veterinary Clinic**

Dairy: 2

#### Western Cape

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

### Blood gut (Sheep)

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

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



Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3

**Parys, Parys Dierehospitaal**

Beef: 1

Cattle from drought-stricken area for humanitarian aid - kept under quarantine on farm

**Smithfield, Freestate Smithfield SV**

Beef: 2

Mohokare: Four more cases on a farm under quarantine

**Winburg, Winburg Dierekliniek**

Beef: 3

### *Brucella ovis*

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

Level of 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) 3.0 (1)

**Eastern Cape**

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

Sheep: 1

**Western Cape**

**George, George Animal Hospital**

Sheep: 3

### **Bovine Tuberculosis**

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

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

**Dairy**

1.0 (1)

**Limpopo**

**Makhado, Blouberg Dierekliniek**

Dairy: 1

### **Johne`s disease**

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

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



**Christiana, Christiana Dierehospitaal**

Beef: 1

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 3

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 1

Fewer cases seen in calves, autogenous vaccine seems to have more success in second and third year

Sheep: 1

Fewer cases seen in calves, autogenous vaccine seems to have more success in second and third year

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3, Sheep: 3

**Free State****Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

**Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

**Dewetsdorp, Platkop Dierekliniek**

Sheep: 3

10 plus!

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Dairy: 3

**Memel, Memel Veterinary Clinic**

Sheep: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

**Kwazulu-Natal****Howick, Howick Veterinary Clinic**

Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Western Cape****Beaufort West, Beaufort Dierekliniek**

Sheep: 2

**Enzootic Abortion**

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

Sheep	1.0 (1)				2.0 (1)				
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**Mpumalanga****Standerton, Econovet**

Sheep: 1

**Free State****Wesselsbron, Wesselsbron Direkliniek**

Sheep: 2

Confirmed

**Dermatophilosis (Lumpy Wool)**

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

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

Sheep		2.0 (1)		2.0 (1)	2.0 (1)		3.0 (1)		
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**Gauteng****Bronkhorstspuit, Kerkstraat Direkliniek**

Sheep: 2

**North West****Schweizer-Reneke, Buffeldoorn Direkliniek SR**

Sheep: 2

**Free State****Villiers, Wilgepoort Direkliniek Vennootskap**

Sheep: 2

**Eastern Cape****Steynsburg, Steynsburg Dierhospitaal**

Sheep: 3

**Bovine Dermatophilosis (Senkobo disease)**

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

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

Beef	2.0 (1)								
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**Mpumalanga****Lydenburg, Longtom Direkliniek**

Beef: 2

***Fusibacterium necrophorum***

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Sheep	2.0 (1)			
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**Lydenburg, Longtom Dierkliniek**

## Gauteng

### Hammanaskraal, Themba Animal Clinic

## Western Cape

## Stellenbosch, Stellenbosch Animal Hospital

## Listeriosis ^

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

**Western Cape**  
**Caledon, Overberg Veterinary Hospital**  
Sheep: 2

On

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Gauteng</b>
<b>Magaliesburg, Magaliesburg; Dr Ryan Jeffrey</b>
Beef: 2
Abomasal ulcers and peritonitis in calves

## Clocolan, Clocolan Dierekliniek

## Kwazulu-Natal

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Beef: 1

Actinobacillus

Pasteurellosis (see lungs)									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	

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

Sheep								1.0 (1)	
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#### Western Cape

Beaufort West, Beaufort Diereklíníek

Sheep: 1

### Protozoal diseases (other)

Coccidiosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	2.0 (1)	2.0 (2)	2.0 (3)	2.0 (2)	2.0 (3)	2.3 (4)	1.5 (2)	

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

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

#### Mpumalanga

Bethal, Bethal Diereklíníek

Beef: 1

Lydenburg, Longtom Diereklíníek

Sheep: 2

Piet Retief, Pets Vet Hospital

Sheep: 2

Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3

#### Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

Coccidiosis in calves

#### Limpopo

Makhado, Blouberg Diereklíníek

Beef: 2

Calves

Sheep: 2

Lambs

#### North West

**Klerksdorp, Klerksdorp Dierehospitaal**

Sheep: 1

**Ottosdal, Lakensvlei Dierehospitaal**

Sheep: 3

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Sheep: 2

#### Free State

**Memel, Memel Veterinary Clinic**

Sheep: 2

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Sheep: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

#### Eastern Cape

**Bathurst, Dr Jane Pistorius**

Goat: 1

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 2

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

Sheep: 3, Goat: 3

#### Western Cape

**Caledon, Caledon Dierekliniek**

Sheep: 2

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

### Cryptosporidium



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.5 (2)		3.0 (2)	2.3 (7)	2.3 (7)		1.7 (3)	

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

Beef	2.0 (2)	3.0 (1)		3.0 (1)	2.5 (2)	2.5 (4)			
Dairy					2.0 (2)	2.0 (2)		1.7 (3)	
Sheep		2.0 (1)		3.0 (1)	2.3 (3)	2.0 (1)			

#### Mpumalanga

**Bethal, Bethal Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Gauteng****Nigel, Welgelegen Dierekliniek**

Beef: 3

*Cryptosporidium* in calves**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

**North West****Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3, Sheep: 3

**Free State****Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Dairy: 2, Sheep: 3

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

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

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Dairy: 2

**Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 2, Sheep: 2

**Kokstad, Kokstad Veterinary Clinic**

Beef: 3

Beef calves

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Western Cape****Caledon, Caledon Dierekliniek**

Dairy: 2

**Caledon, Overberg Veterinary Hospital**

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

Cryptosporidiosis found in small intestine of 8 days old dairy calf. Died - diarrhoea

**Fungal diseases****Ringworm**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)	2.0 (1)	2.5 (2)	2.7 (3)	2.5 (2)	2.0 (4)		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									
<b>Beef</b>	1.0 (1)		2.5 (2)	2.7 (3)	2.5 (2)	1.7 (3)		1.0 (1)	1.0 (1)

Dairy	3.0 (1)								
Sheep	2.0 (1)								
Mpumalanga									
Balfour, Balfour Direkliniek									
Beef: 1									
Gauteng									
Pretoria, Anima Veterinary Consulting Rooms									
Sheep: 2									
Limpopo									
Makhado, Blouberg Direkliniek									
Beef: 2									
Four cases									
Tzaneen, ZZ2 Farm Practice									
Beef: 3									
North West									
Christiana, Christiana Direhospitaal									
Beef: 3									
Schweizer-Reneke, Buffeldoorn Direkliniek SR									
Beef: 2									
Stella, Stella Direkliniek									
Beef: 3									
Free State									
Bloemfontein, Dr Stephan Wessels									
Beef: 3									
Ladybrand, Ladybrand Direkliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 2									
Howick, Howick Veterinary Clinic									
Dairy: 3									
Pietermaritzburg, Veterinary House Hospital									
Beef: 2									
Underberg, Underberg Veterinary Surgery									
Beef: 1									
Western Cape									
Stellenbosch, Stellenbosch Animal Hospital									
Beef: 1									
Northern Cape									
Kathu, Kathu Direkliniek									
Beef: 1									
Viral Diseases (other)									
BMC (snotsiekte)									▲
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)			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

<b>Beef</b>		1.0 (1)	2.0 (1)	1.0 (1)		1.0 (1)
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#### North West

##### Potchefstroom, Morvet

Beef: 1

Snotsiekte confirmed in a Beefmaster bull, recovered and was tested fertile

#### Free State

##### Kroonstad, Kroonstad Dierehospitaal

Beef: 2

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 1

#### Northern Cape

##### Kimberley, Kimberley Dierekliniek

Beef: 1

### IBR (Infectious bovine rhinotracheitis)



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		2.0 (1)				2.0 (2)			

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

<b>Beef</b>		2.0 (1)				2.0 (2)			
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#### Gauteng

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

#### Kwazulu-Natal

##### Bergville, Tugela Vet Clinic

Beef: 1

##### Pietermaritzburg, Veterinary House Hospital

Beef: 3

### BRSV (Bovine respiratory syncytial virus)



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				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

<b>Beef</b>				2.0 (1)					
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#### North West

##### Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Foot-and-mouth Disease										<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape	
Average			2.0 (1)							
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef			2.0 (1)							
Limpopo										
Polokwane, Pietersburg Veterinary Clinic										
Beef: 2										
Enzootic Bovine Leucosis (EBL)										<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape	
Average					3.0 (1)	2.0 (1)		2.0 (2)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef					3.0 (1)					
Dairy						2.0 (1)		2.0 (2)		
Free State										
Winburg, Winburg Dierekliniek										
Beef: 3										
Kwazulu-Natal										
Underberg, Underberg Veterinary Surgery										
Dairy: 2										
Western Cape										
Caledon, Overberg Veterinary Hospital										
Dairy: 3										
Darling, Tygerberg Dierehospitaal Darling										
Dairy: 1										
Orf										<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape	
Average		3.0 (2)	3.0 (1)	2.5 (2)	2.7 (3)	1.5 (4)	2.3 (3)	2.0 (2)	2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										

Sheep		3.0 (1)	3.0 (1)	2.5 (2)	2.7 (3)	2.0 (1)	3.0 (1)	3.0 (1)	
Goat		3.0 (1)				1.3 (3)	2.0 (2)	1.0 (1)	2.0 (1)
<b>Gauteng</b>									
<b>Hammanskraal, Themba Animal Clinic</b>									
Sheep: 3, Goat: 3									
<b>Limpopo</b>									
<b>Makhado, Blouberg Dierekliniek</b>									
Sheep: 3									
<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Sheep: 2									
<b>Potchefstroom, Morvet</b>									
Sheep: 3									
<b>Free State</b>									
<b>Bloemfontein, Dr Stephan Wessels</b>									
Sheep: 2									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Sheep: 3									
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>									
Sheep: 3									
<b>Kwazulu-Natal</b>									
<b>Estcourt, Estcourt Vet Clinic</b>									
Goat: 2									
<b>Mooi River, Mooirivier Vet Clinic</b>									
Goat: 1									
<b>Pongola, Pongola Animal Clinic</b>									
Goat: 1									
<b>Underberg, Underberg Veterinary Surgery</b>									
Sheep: 2									
<b>Eastern Cape</b>									
<b>Alexandria, Riverview Trading Vet Consulting Services</b>									
Goat: 2									
<b>Steynsburg, Steynsburg Dierehospitaal</b>									
Sheep: 3, Goat: 2									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Sheep: 3									
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>									
Goat: 1									
<b>Northern Cape</b>									
<b>Postmasburg, Postmasburg Dierekliniek</b>									
Goat: 2									
<b>Warts</b>									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.0 (1)		2.0 (1)	2.0 (5)	1.8 (4)	3.0 (1)	1.5 (4)	2.0 (1)



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

<b>Beef</b>	1.5 (2)	1.0 (1)		2.0 (4)	1.8 (4)	3.0 (1)	3.0 (1)	2.0 (1)
<b>Dairy</b>				2.0 (1)			1.0 (3)	
<b>Sheep</b>			2.0 (1)					

#### **Mpumalanga**

##### **Balfour, Balfour Dierekliniek**

Beef: 1

##### **Lydenburg, Longtom Dierekliniek**

Beef: 2

#### **Gauteng**

##### **Hammanskraal, Themba Animal Clinic**

Beef: 1

#### **North West**

##### **Klerksdorp, Klerksdorp Dierehospitaal**

Sheep: 2

#### **Free State**

##### **Clocolan, Clocolan Dierekliniek**

Beef: 2

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

Dairy: 2

##### **Senekal, Senekal Dierekliniek**

Beef: 1

##### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2

##### **Winburg, Winburg Dierekliniek**

Beef: 3

#### **Kwazulu-Natal**

##### **Bergville, Bergville Veterinary Clinic**

Beef: 2

##### **Newcastle, Ncanduvet Newcastle**

Beef: 1

##### **Pongola, Pongola Animal Clinic**

Beef: 1

##### **Underberg, Underberg Veterinary Surgery**

Beef: 3

#### **Eastern Cape**

##### **Steynsburg, Steynsburg Dierehospitaal**

Beef: 3

#### **Western Cape**

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

Dairy: 1

##### **Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

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

Beef: 3

##### **Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

#### **Northern Cape**

##### **Kimberley, Kimberley Dierekliniek**

Beef: 2

## Rota virus [^](#)

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

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

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

### Free State

#### Clocolan, Clocolan Dierekliniek

Beef: 3

#### Kroonstad, Kroonstad Dierehospitaal

Dairy: 1

### Western Cape

#### Darling, Tygerberg Dierehospitaal Darling

Dairy: 2

## Other viral disease not listed [^](#)

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

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

Beef				3.0 (1)					
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### North West

#### Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3

Fogfever in weaners

## Poisonings (Plant) and Fungal

## Cardiac glycoside poisoning [^](#)

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

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

Beef							3.0 (1)		
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<b>Beef</b>		2.0 (1)	
<b>Sheep</b>		1.6 (5)	3.0 (1)

#### Free State

##### Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

##### Frankfort, Frankfort Dierekliniek

Sheep: 3

##### Reitz, Riemland Dierehospitaal

Sheep: 1

##### Senekal, Senekal Dierekliniek

Sheep: 1

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

##### Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

#### Eastern Cape

##### Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Geeldikkop/Dikoor									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		2.0 (1)		3.0 (1)	2.4 (5)		2.0 (1)		2.0 (1)

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

<b>Sheep</b>		2.0 (1)		3.0 (1)	2.4 (5)		2.0 (1)		2.0 (1)
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#### Gauteng

##### Hammanskraal, Themba Animal Clinic

Sheep: 2

#### North West

##### Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3

Duwweltjies, sheep put in shade, pain killers and soft food

#### Free State

##### Clocolan, Clocolan Dierekliniek

Sheep: 2

##### Frankfort, Frankfort Dierekliniek

Sheep: 3

##### Hoopstad, Hoopstad Dierekliniek

Sheep: 3

##### Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

##### Ladybrand, Ladybrand Dierekliniek

Sheep: 1

#### Eastern Cape

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

Sheep: 2

**Northern Cape****Kimberley, Kimberley Diereklíníek**

Sheep: 2

**Gifblaar**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>			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

<b>Beef</b>			1.0 (1)						
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**Limpopo****Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

**Gousiekte**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		2.0 (1)	1.0 (1)						

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

<b>Beef</b>			1.0 (1)						
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<b>Sheep</b>		2.0 (1)							
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**Gauteng****Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

Fadogia vergiftinging

**Limpopo****Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

**Lantana**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.0 (1)	1.5 (2)			2.0 (3)			

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

<b>Beef</b>		1.0 (1)	1.5 (2)			2.0 (3)			
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**Gauteng****Hammanskraal, Themba Animal Clinic**

Beef: 1



Seneciosis									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (2)	2.0 (1)	2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef						3.0 (1)			
Sheep							2.0 (1)		
Goat						1.0 (1)		2.0 (1)	
<b>Kwazulu-Natal</b>									
<b>Camperdown, Camperdown Vet Clinic</b>									
Goat: 1									
<b>Kokstad, Kokstad Veterinary Clinic</b>									
Beef: 3									
<b>Eastern Cape</b>									
<b>Stutterheim, Stutterheim Veterinary Clinic</b>									
Sheep: 2									
Acute <i>Senecio</i> poisoning in young lambs just weaned									
<b>Western Cape</b>									
<b>Worcester, Durban Straat Dierekliniek Worcester</b>									
Goat: 2									
Tulip Poisoning									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)		1.0 (1)	1.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef				2.0 (1)		1.0 (1)	1.0 (1)		
<b>North West</b>									
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Mooi River, Mooirivier Vet Clinic</b>									
Beef: 1									
<b>Eastern Cape</b>									
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>									
Beef: 1									
Mycotoxiosis									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

Average						2.0 (1)		1.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy						2.0 (1)		1.0 (1)	
Kwazulu-Natal									
Howick, Howick Veterinary Clinic									
Dairy: 2									
Western Cape									
Darling, Tygerberg Dierehospitaal Darling									
Dairy: 1									
Other									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)							
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep		1.0 (1)							
Gauteng									
Pretoria, Anima Veterinary Consulting Rooms									
Sheep: 1									
Amaranthus poisoning									
Poisonings									
Water contamination									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy								1.0 (1)	
Western Cape									
Darling, Tygerberg Dierehospitaal Darling									
Dairy: 1									
Urea Poisoning									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.5 (2)		



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

<b>Beef</b>		2.0 (1)
<b>Sheep</b>		3.0 (1)

#### Eastern Cape

**Alexandria, Riverview Trading Vet Consulting Services**

Beef: 2

**Steynsburg, Steynsburg Dierehospitaal**

Sheep: 3

#### Snake Bite

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)				2.0 (1)				

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

<b>Beef</b>		2.0 (1)
<b>Sheep</b>	1.0 (1)	

#### Mpumalanga

**Lydenburg, Longtom Dierekliniek**

Sheep: 1

#### Free State

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Chemical products

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		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

<b>Beef</b>		1.0 (1)
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#### Gauteng

**Hammanskraal, Themba Animal Clinic**

Beef: 1

#### Other

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				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

<b>Beef</b>		1.0 (1)	1.0 (1)
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#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 1

Slangkop

#### Kwazulu-Natal

##### Pietermaritzburg, Veterinary House Hospital

Beef: 1

2 cases lead poisoning in bef cows

## Macro Nutritional Problems

### Energy deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>						2.3 (4)	2.8 (5)	1.0 (1)	3.0 (3)

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

<b>Beef</b>						2.0 (2)	3.0 (1)		3.0 (1)
<b>Dairy</b>						2.0 (1)	3.0 (1)	1.0 (1)	
<b>Sheep</b>						3.0 (1)	2.5 (2)		3.0 (1)
<b>Goat</b>							3.0 (1)		3.0 (1)

#### Kwazulu-Natal

##### Howick, Howick Veterinary Clinic

Dairy: 2

##### Mooi River, Mooirivier Vet Clinic

Beef: 1

##### Underberg, Underberg Veterinary Surgery

Beef: 3

Drought

Sheep: 3

#### Eastern Cape

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

Sheep: 2

##### Steynsburg, Steynsburg Dierehospitaal

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

#### Western Cape

##### Malmesbury, Dr Otto Kriek

Dairy: 1

#### 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		1.0 (3)				1.5 (2)	3.0 (4)	1.0 (2)	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		1.0 (1)				1.5 (2)	3.0 (1)		3.0 (1)
Dairy							3.0 (1)	1.0 (2)	
Sheep		1.0 (1)					3.0 (1)		3.0 (1)
Goat		1.0 (1)					3.0 (1)		3.0 (1)

#### Gauteng

##### Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

#### Kwazulu-Natal

##### Mooi River, Mooirivier Vet Clinic

Beef: 1

##### Underberg, Underberg Veterinary Surgery

Beef: 2

Drought

#### Eastern Cape

##### Steynsburg, Steynsburg Dierehospitaal

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

#### Western Cape

##### Malmesbury, Dr Otto Kriek

Dairy: 1

##### Malmesbury, Invitrotech

Dairy: 1

Culled one cow in poor condition

#### Northern Cape

##### Postmasburg, Postmasburg Dierekliniek

Beef: 3, Sheep: 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)

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

Beef									2.0 (1)
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#### Northern Cape

##### Postmasburg, Postmasburg Dierekliniek

Beef: 2

### Calcium deficiency



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>						2.0 (2)		1.0 (3)	
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>						1.0 (1)			
<b>Dairy</b>						3.0 (1)		1.0 (2)	
<b>Sheep</b>								1.0 (1)	

#### Kwazulu-Natal

##### Howick, Howick Veterinary Clinic

Dairy: 3

##### Mooi River, Mooirivier Vet Clinic

Beef: 1

#### Western Cape

##### Caledon, Caledon Dierekliniek

Dairy: 1

##### Darling, Tygerberg Dierehospitaal Darling

Dairy: 1

##### Worcester, Durban Straat Dierekliniek Worcester

Sheep: 1

### Micro Nutritional Problems

#### Copper deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>						2.0 (1)		1.0 (1)	

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

<b>Beef</b>						2.0 (1)			
<b>Sheep</b>								1.0 (1)	

#### Kwazulu-Natal

##### Underberg, Underberg Veterinary Surgery

Beef: 2

#### Western Cape

##### Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

#### Zinc deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>						2.0 (1)		2.0 (1)	

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

<b>Beef</b>						2.0 (1)			
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Dairy						2.0 (1)			
Kwazulu-Natal									
Underberg, Underberg Veterinary Surgery									
Beef: 2									
Western Cape									
Caledon, Overberg Veterinary Hospital									
Dairy: 2									
Selenium deficiency									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (2)		2.5 (2)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef						2.5 (2)			
Sheep				3.0 (1)					
Goat				3.0 (1)					
North West									
Christiana, Christiana Dierehospitaal									
Sheep: 3, Goat: 3									
Kwazulu-Natal									
Dundee, Endumeni Herd health									
Beef: 2									
Underberg, Underberg Veterinary Surgery									
Beef: 3									
Magnesium deficiency									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					2.0 (1)				
Free State									
Ladybrand, Ladybrand Dierekliniek									
Beef: 2									
Iodine deficiency									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

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

<b>Beef</b>	1.0 (1)
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#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 1

#### Vitamin A deficiency

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

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

<b>Beef</b>				3.0 (1)					
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<b>Sheep</b>				3.0 (1)	2.0 (1)			1.0 (1)	
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#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

#### Free State

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

#### Western Cape

##### Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

#### Vitamin B1 deficiency

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

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

<b>Sheep</b>								1.0 (1)	
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<b>Goat</b>								1.0 (1)	
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#### Western Cape

##### Beaufort West, Beaufort Dierekliniek

Goat: 1

##### Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

### Multi-factorial Disease Conditions

Abortions									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			1.0 (1)	2.5 (4)	2.1 (7)	2.0 (1)	1.8 (5)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	1.0 (1)				2.3 (3)	2.2 (5)	2.0 (1)	2.0 (1)	
Dairy						2.0 (2)		1.8 (4)	
Sheep				1.0 (1)	3.0 (1)				
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
North West									
Christiana, Christiana Dierehospitaal									
Sheep: 1									
Free State									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3, Sheep: 3									
Kroonstad, Kroonstad Dierehospitaal									
Beef: 2									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 2									
Dundee, Endumeni Herd health									
Dairy: 1									
Howick, Howick Veterinary Clinic									
Beef: 3, Dairy: 3									
Mooi River, Mooirivier Vet Clinic									
Beef: 1									
Pietermaritzburg, Veterinary House Hospital									
Beef: 2									
Underberg, Underberg Veterinary Surgery									
Beef: 3									
Eastern Cape									
Alexandria, Alexandria Platteland Spreekkamer									
Beef: 2									
Western Cape									
Darling, Tygerberg Dierehospitaal Darling									
Beef: 2									
George, George Animal Hospital									
Dairy: 2									
Malmesbury, Dr Otto Kriek									
Dairy: 2									
Malmesbury, Invitrotech									

Dairy: 2

Culled 3 cows

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

## Stillbirths

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

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

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

### Free State

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

### Western Cape

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

## Abscesses

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	1.6 (5)		2.7 (3)	3.0 (3)	2.0 (5)	2.5 (4)	2.0 (2)	

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

Beef	1.7 (3)	1.5 (2)		2.5 (2)	3.0 (2)	2.0 (3)		2.0 (1)	
Sheep	2.0 (1)	1.5 (2)		3.0 (1)	3.0 (1)	3.0 (1)	2.5 (2)	2.0 (1)	
Goat		2.0 (1)				1.0 (1)	2.5 (2)		

### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2



<b>Gauteng</b>
<b>Hammanskraal, Themba Animal Clinic</b>
Beef: 2, Sheep: 2, Goat: 2
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 1, Sheep: 1
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 3, Sheep: 3
<b>Ventersdorp, Ventersdorp Dierekliniek</b>
Beef: 2
<b>Free State</b>
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1, Goat: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Sheep: 3
<b>Vryheid, Vryheid Privaat Veeartse</b>
Beef: 2
<b>Eastern Cape</b>
<b>Bathurst, Dr Jane Pistorius</b>
Goat: 3
Foot abscesses
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>
Sheep: 2, Goat: 2
<b>Steynsburg, Steynsburg Dierehospitaal</b>
Sheep: 3
<b>Western Cape</b>
<b>Beaufort West, Beaufort Dierekliniek</b>
Sheep: 2
<b>Darling, Tygerberg Dierehospitaal Darling</b>
Beef: 2

Abscesses in general									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)	2.3 (3)			2.3 (3)	2.0 (4)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (1)	2.0 (1)			3.0 (1)	2.0 (3)			
<b>Dairy</b>		2.0 (1)							
<b>Sheep</b>	2.0 (1)				2.0 (2)				
<b>Goat</b>		3.0 (1)				2.0 (1)			

<b>Mpumalanga</b>
<b>Lydenburg, Longtom Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Gauteng</b>
<b>Hammanskraal, Themba Animal Clinic</b>
Beef: 2, Dairy: 2, Goat: 3
<b>Free State</b>
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Wesselsbron, Wesselsbron Dierekliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 2
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2, Goat: 2

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

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

Sheep	1.0 (1)				2.0 (3)			1.0 (1)	
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<b>Mpumalanga</b>
<b>Lydenburg, Longtom Dierekliniek</b>
Sheep: 1
<b>Free State</b>
<b>Frankfort, Frankfort Dierekliniek</b>
Sheep: 2
<b>Hoopstad, Hoopstad Dierekliniek</b>
Sheep: 3
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Sheep: 1
<b>Western Cape</b>
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 1

Blindness									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.3 (8)	2.0 (1)	3.0 (2)	1.0 (1)	

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

<b>Beef</b>	2.0 (1)		2.3 (3)	2.0 (1)	3.0 (1)	
<b>Sheep</b>			2.2 (5)		3.0 (1)	1.0 (1)

#### **Mpumalanga**

##### **Lydenburg, Longtom Dierekliniek**

Beef: 2

#### **Free State**

##### **Clocolan, Clocolan Dierekliniek**

Beef: 2, Sheep: 2

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

Beef: 3, Sheep: 3

##### **Ladybrand, Ladybrand Dierekliniek**

Sheep: 3

##### **Senekal, Senekal Dierekliniek**

Sheep: 1

##### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

##### **Winburg, Winburg Dierekliniek**

Beef: 2

#### **Kwazulu-Natal**

##### **Bergville, Bergville Veterinary Clinic**

Beef: 2

#### **Eastern Cape**

##### **Steynsburg, Steynsburg Dierehospitaal**

Beef: 3, Sheep: 3

#### **Western Cape**

##### **Beaufort West, Beaufort Dierekliniek**

Sheep: 1

#### **Bloat**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (2)	2.0 (2)			2.7 (3)	1.5 (2)		1.3 (3)	

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

<b>Beef</b>	1.0 (2)	2.0 (1)			2.5 (2)	2.0 (1)		1.0 (1)	
<b>Sheep</b>					3.0 (1)			1.5 (2)	
<b>Goat</b>		2.0 (1)				1.0 (1)			

#### **Mpumalanga**

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

Beef: 1

##### **Lydenburg, Longtom Dierekliniek**

Beef: 1

#### **Gauteng**

**Hammanskraal, Themba Animal Clinic**

Beef: 2, Goat: 2

#### **Free State**

**Clocolan, Clocolan Dierekliniek**

Beef: 3, Sheep: 3

**Winburg, Winburg Dierekliniek**

Beef: 2

#### **Kwazulu-Natal**

**Camperdown, Camperdown Vet Clinic**

Goat: 1

**Dundee, Endumeni Herd health**

Beef: 2

#### **Western Cape**

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Worcester, Durban Straat Dierekliniek Worcester**

Beef: 1, Sheep: 1

### **Blood gut (sheep and goat)**



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

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

Sheep								2.0 (1)	
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#### **Western Cape**

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

### **Blue udder**



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

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

Sheep	2.0 (1)				1.8 (5)	1.0 (1)		2.0 (1)	
Goat								2.0 (1)	

#### **Mpumalanga**

**Lydenburg, Longtom Dierekliniek**

Sheep: 2

#### **Free State**

**Bultfontein, Greylingrust Dieresprekkamer**

Sheep: 2

**Clocolan, Clocolan Dierekliniek**

Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Sheep: 1

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

**Winburg, Winburg Dierekliniek**

Sheep: 2

**Kwazulu-Natal**

**Bergville, Tugela Vet Clinic**

Sheep: 1

**Western Cape**

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Ceres, Ceres Veterinary Hospital**

Goat: 2

Diarrhoea									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.0 (2)	1.5 (2)	2.8 (9)	2.4 (20)	2.3 (10)		2.0 (3)	

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

Beef	2.0 (4)	2.0 (1)	1.5 (2)	2.8 (5)	2.4 (9)	2.5 (6)		3.0 (1)	
Dairy					2.3 (3)	2.0 (2)		1.5 (2)	
Sheep	2.0 (1)			2.8 (4)	2.4 (8)	2.0 (2)			
Goat		2.0 (1)							

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Hendrina, Mooiplaas Veterinêre Dienste**

Beef: 3

Calves

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

**Gauteng**

**Hammanskraal, Themba Animal Clinic**

Beef: 2, Goat: 2

**Limpopo**

**Tzaneen, ZZ2 Farm Practice**

Beef: 1

**Vaalwater, Vaalwater Dieresprekkamer**

Beef: 2

Two calves chronic diarrhoea

#### **North West**

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

Beef: 3, Sheep: 3

##### **Christiana, Christiana Dierhospitaal**

Beef: 3, Sheep: 3

##### **Klerksdorp, Klerksdorp Dierhospitaal**

Beef: 2, Sheep: 2

##### **Potchefstroom, Morvet**

Beef: 3

Calves

Sheep: 3

Lambs

##### **Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 3

#### **Free State**

##### **Clocolan, Clocolan Dierekliniek**

Beef: 3, Dairy: 3, Sheep: 3

##### **Frankfort, Frankfort Dierekliniek**

Beef: 3, Sheep: 3

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

Beef: 3, Sheep: 3

##### **Kroonstad, Kroonstad Dierhospitaal**

Beef: 2, Dairy: 2, Sheep: 2

##### **Ladybrand, Ladybrand Dierekliniek**

Beef: 3

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

Sheep: 3

##### **Parys, Parys Dierhospitaal**

Beef: 2

##### **Reitz, Riemland Dierhospitaal**

Beef: 2

##### **Senekal, Senekal Dierekliniek**

Dairy: 2, Sheep: 1

##### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

##### **Vrede, Vrede Dierhospitaal**

Sheep: 2

Lambs

##### **Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

##### **Winburg, Winburg Dierekliniek**

Beef: 3

#### **Kwazulu-Natal**

##### **Bergville, Bergville Veterinary Clinic**

Beef: 3

##### **Bergville, Tugela Vet Clinic**

Beef: 1, Sheep: 1

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

Beef: 3, Dairy: 1

##### **Howick, Howick Veterinary Clinic**

Beef: 3, Dairy: 3

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

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 3, Sheep: 3

**Western Cape****Caledon, Caledon Dierekliniek**

Dairy: 1

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 2

**Epididymitis**

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

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

Sheep: 1

**Western Cape****Beaufort West, Beaufort Dierekliniek**

Sheep: 1

**Eye Cancer**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.3 (6)	3.0 (1)		2.0 (1)	

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

Beef	1.0 (1)				2.0 (1)				
Dairy					1.3 (4)	3.0 (1)		2.0 (1)	
Sheep					1.0 (1)				

**Mpumalanga****Lydenburg, Longtom Dierekliniek**

Beef: 1

**Free State****Kroonstad, Kroonstad Dierehospitaal**

Dairy: 2

**Ladybrand, Ladybrand Dierekliniek**

Dairy: 1

**Senekal, Senekal Dierekliniek**

Dairy: 1, Sheep: 1

**Wesselsbron, Wesselsbron Direkliniek**

Dairy: 1

**Winburg, Winburg Direkliniek**

Beef: 2

**Kwazulu-Natal**

**Howick, Howick Veterinary Clinic**

Dairy: 3

**Western Cape**

**Malmesbury, Invitrotech**

Dairy: 2

Culled 2 cows

Eye infections									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (10)	1.5 (2)	1.0 (1)	2.8 (6)	2.6 (22)	2.1 (14)	3.0 (2)	1.8 (6)	2.5 (2)

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

Beef	2.5 (6)	2.0 (1)	1.0 (1)	3.0 (4)	2.8 (11)	2.1 (9)	3.0 (1)	2.0 (3)	2.0 (1)
Dairy					2.0 (1)	2.5 (2)		2.0 (2)	
Sheep	2.5 (4)			2.5 (2)	2.6 (9)	2.0 (1)	3.0 (1)	1.0 (1)	
Goat		1.0 (1)			1.0 (1)	1.5 (2)			3.0 (1)

**Mpumalanga**

**Balfour, Balfour Direkliniek**

Beef: 2, Sheep: 2

**Grootvlei, Grootvlei Direkliniek**

Beef: 2

**Lydenburg, Longtom Direkliniek**

Beef: 3, Sheep: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Standerton, Econovet**

Beef: 3, Sheep: 3

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 3, Sheep: 3

**Gauteng**

**Hammanskraal, Themba Animal Clinic**

Goat: 1

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 2

**Limpopo**

**Tzaneen, ZZ2 Farm Practice**

Beef: 1



## North West

### **Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

### **Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 2

### **Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 3

Moraxella

### **Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3

## Free State

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

Beef: 3, Sheep: 3

### **Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

### **Frankfort, Frankfort Dierekliniek**

Beef: 3, Sheep: 3

### **Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

### **Kroonstad, Kroonstad Dierehospitaal**

Beef: 3

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

Beef: 3

### **Parys, Parys Dierehospitaal**

Beef: 3, Sheep: 3

### **Reitz, Riemland Dierehospitaal**

Beef: 3, Sheep: 2

### **Senekal, Senekal Dierekliniek**

Goat: 1

### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

### **Vrede, Vrede Dierehospitaal**

Sheep: 2

*Moraxella*

### **Wesselsbron, Wesselsbron Dierekliniek**

Beef: 2, Sheep: 2

### **Winburg, Winburg Dierekliniek**

Beef: 3

## Kwazulu-Natal

### **Bergville, Bergville Veterinary Clinic**

Beef: 3

### **Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2, Goat: 2

### **Camperdown, Camperdown Vet Clinic**

Beef: 1

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

Beef: 2, Dairy: 2

### **Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 3

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

Beef: 3

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

Beef: 2

### **Pongola, Pongola Animal Clinic**

Beef: 1, Goat: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 3

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

Beef: 3, Sheep: 3

**Western Cape****Caledon, Caledon Dierekliniek**

Beef: 2

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Moorreesburg, Tygerberg Moorreesburg**

Beef: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Sheep: 1

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

**Northern Cape****Kimberley, Kimberley Dierekliniek**

Beef: 2

Pink eyes

**Postmasburg, Postmasburg Dierekliniek**

Goat: 3

**Joint Ill**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.5 (2)			2.0 (2)	2.0 (3)	1.5 (2)	1.0 (1)		

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

<b>Beef</b>	1.5 (2)			2.0 (1)	3.0 (1)	1.5 (2)			
<b>Sheep</b>				2.0 (1)	1.5 (2)		1.0 (1)		

**Mpumalanga****Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**North West****Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2, Sheep: 2

**Free State****Senekal, Senekal Dierekliniek**

Sheep: 1

**Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

#### **Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Camperdown, Camperdown Vet Clinic**

Beef: 1

#### **Eastern Cape**

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

Sheep: 1

Lameness/Foot Problems									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.4 (7)		3.0 (2)	2.7 (20)	1.8 (12)		2.0 (3)	

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

Beef	2.0 (4)	2.5 (2)		3.0 (1)	2.7 (9)	1.9 (8)			
Dairy					2.7 (3)	3.0 (1)		2.0 (3)	
Sheep	2.5 (2)	2.3 (3)		3.0 (1)	2.6 (8)	1.0 (1)			
Goat		2.5 (2)				1.5 (2)			

#### **Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 2

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

**Piet Retief, Pets Vet Hospital**

Beef: 2

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Sheep: 3

Foot rot

#### **Gauteng**

**Hammanskraal, Themba Animal Clinic**

Beef: 3, Sheep: 2, Goat: 3

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 2, Sheep: 2

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

Sheep: 3

Fifteen cases

Goat: 2

Two cases

#### **North West**

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

## Free State

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

Beef: 3, Sheep: 3

### **Bultfontein, Greylingrust Dieresprekkamer**

Beef: 3

### **Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 3, Sheep: 3

### **Frankfort, Frankfort Dierekliniek**

Sheep: 3

### **Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Dairy: 3, Sheep: 3

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

Sheep: 3

### **Parys, Parys Dierehospitaal**

Beef: 3

### **Reitz, Riemland Dierehospitaal**

Beef: 2, Dairy: 2, Sheep: 2

### **Senekal, Senekal Dierekliniek**

Beef: 2

### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3

### **Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

### **Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 2

### **Winburg, Winburg Dierekliniek**

Beef: 3

## Kwazulu-Natal

### **Bergville, Bergville Veterinary Clinic**

Beef: 3

### **Bergville, Tugela Vet Clinic**

Beef: 1, Goat: 1

### **Camperdown, Camperdown Vet Clinic**

Beef: 1

Locking stifle joint

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

Sheep: 1

### **Howick, Howick Veterinary Clinic**

Beef: 2, Dairy: 3

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

Beef: 1

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

Goat: 2

Ticks

### **Newcastle, Ncanduvet Newcastle**

Beef: 1

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

Beef: 3

### **Underberg, Underberg Veterinary Surgery**

Beef: 3

## Western Cape

### **Darling, Tygerberg Dierehospitaal Darling**

Dairy: 2

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

Dairy: 2

**Malmesbury, Invitrotech**

Dairy: 2

Lung infection									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (5)	2.0 (2)		2.4 (5)	2.4 (16)	2.1 (8)	1.3 (3)	1.5 (2)	1.0 (1)

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

Beef	1.7 (3)			2.3 (3)	2.3 (7)	2.2 (6)			
Dairy					1.5 (2)			1.5 (2)	
Sheep	2.0 (2)	2.0 (2)		2.5 (2)	2.9 (7)	2.0 (1)			1.0 (1)
Goat						2.0 (1)	1.3 (3)		

**Mpumalanga****Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

**Gauteng****Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

**North West****Brits, Brits Dierekliniek**

Beef: 3

**Christiana, Christiana Dierehospitaal**

Sheep: 3

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 2

Fewer cases seen

Sheep: 2

Foot rot

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 2

**Free State****Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

**Bultfontein, Greylingrust Dieresprekkamer**

Sheep: 3

**Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 1, Sheep: 3

**Frankfort, Frankfort Dierekliniek**

Beef: 2, Sheep: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Dairy: 2

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Vrede, Vrede Dierehospitaal**

Beef: 2, Sheep: 2

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Dundee, Endumeni Herd health**

Beef: 2

**Howick, Howick Veterinary Clinic**

Beef: 2

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Eastern Cape**

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 2

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

Goat: 1

**Uitenhage, Uitenhage Dierehospitaal**

Goat: 1

**Western Cape**

**Caledon, Caledon Dierekliniek**

Dairy: 1

**Malmesbury, Dr Otto Kriek**

Dairy: 2

**Northern Cape**

**Upington, Upington Veeartsenykliniek**

Sheep: 1

*Pasteurella* pneumonia in weaner lambs in one feedlot

**Mastitis in general**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)		1.0 (1)	2.3 (3)	2.2 (6)	1.9 (8)		2.4 (5)	

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

Beef	1.5 (2)		1.0 (1)	3.0 (1)	2.3 (4)	1.8 (5)			
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<b>Dairy</b>	1.0 (1)		2.0 (1)	2.5 (2)	2.4 (5)
<b>Sheep</b>		3.0 (1)	2.0 (1)		
<b>Goat</b>		1.0 (1)		1.0 (1)	

#### **Mpumalanga**

##### **Balfour, Balfour Dierekliniek**

Beef: 2

##### **Lydenburg, Longtom Dierekliniek**

Dairy: 1

##### **Lydenburg, Lydenburg Dieresprekkamer**

Beef: 1

#### **Limpopo**

##### **Mokopane, Bundu Veterinary Services**

Beef: 1

#### **North West**

##### **Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

##### **Klerksdorp, Klerksdorp Dierehospitaal**

Goat: 1

#### **Free State**

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

Beef: 3

##### **Clocolan, Clocolan Dierekliniek**

Sheep: 2

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

Dairy: 2

##### **Parys, Parys Dierehospitaal**

Beef: 3

##### **Senekal, Senekal Dierekliniek**

Beef: 1

##### **Winburg, Winburg Dierekliniek**

Beef: 2

#### **Kwazulu-Natal**

##### **Bergville, Bergville Veterinary Clinic**

Beef: 2

##### **Bergville, Tugela Vet Clinic**

Beef: 1

##### **Camperdown, Camperdown Vet Clinic**

Goat: 1

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

Dairy: 2

##### **Howick, Howick Veterinary Clinic**

Dairy: 3

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

Beef: 2

##### **Pongola, Pongola Animal Clinic**

Beef: 1

##### **Underberg, Underberg Veterinary Surgery**

Beef: 3

#### **Western Cape**

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

Dairy: 3

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

Dairy: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Invitrotech**

Dairy: 2

Poor udder conformation culled 6 cows; mastitis culled 3 cows; culled one cow with E. coli mastitis

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

## Navel Ill

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

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

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

## Mpumalanga

**Lydenburg, Longtom Dierekliniek**

Beef: 1

## Free State

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1, Sheep: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

## Western Cape

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

## Trauma

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.7 (3)	2.0 (1)		1.0 (1)			2.0 (2)	1.0 (1)

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

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



Goat	2.0 (1)								
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Beef: 2, Sheep: 2									
Gauteng									
Hammanskraal, Themba Animal Clinic									
Beef: 2, Goat: 2									
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic									
Beef: 1									
Laceration									
Limpopo									
Mokopane, Bundu Veterinary Services									
Beef: 2									
Free State									
Bultfontein, Greylingrust Dieresprekkamer									
Beef: 1									
Western Cape									
Malmesbury, Invitrotech									
Dairy: 2									
Nine cows culled (slipped, trauma)									
Worcester, Durban Straat Dierekliniek Worcester									
Sheep: 2									
Northern Cape									
Kimberley, Kimberley Dierekliniek									
Beef: 1									
Bruising, seen at abattoir									
Downer									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			2.0 (4)	2.0 (1)		2.0 (2)	3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef		2.0 (1)			2.0 (3)			1.0 (1)	3.0 (1)
Dairy					2.0 (1)	2.0 (1)		3.0 (1)	
Gauteng									
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic									
Beef: 2									
Four cases (PEM), protein, energy malnutrition									
Free State									
Bultfontein, Greylingrust Dieresprekkamer									
Beef: 1									
Clocolan, Clocolan Dierekliniek									
Beef: 3, Dairy: 2									
Ladybrand, Ladybrand Dierekliniek									
Beef: 2									
Kwazulu-Natal									

**Howick, Howick Veterinary Clinic**

Dairy: 2

**Western Cape****Caledon, Overberg Veterinary Hospital**

Beef: 1

**Malmesbury, Invitrotech**

Dairy: 3

Fourteen cows culled

**Northern Cape****Postmasburg, Postmasburg Dierekliniek**

Beef: 3

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

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

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

**Mpumalanga****Volkstrust, Cape Cross Volkstrust Dierehospitaal**

Beef: 3

Four months old calves with clostridial diarrhoea - 10 died, cows were not vaccinated

**Gauteng****Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic**

Beef: 1

Colic

**North West****Leeudoringstad, Leeudoringstad Dierekliniek**

Sheep: 2

Rectal prolapses in feedlot

**Western Cape****Malmesbury, Invitrotech**

Dairy: 3

Due to poor production figures culled 125 cows; 2 cows died with adhesions; one cow died with peritonitis

**Northern Cape****Kimberley, Kimberley Dierekliniek**

Beef: 1

Icterus, seen at abattoir

Vestibular syndrome (Middle ear infection)									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)								

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

Beef	1.0 (1)								
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Beef: 1									
Wet carcasses Yellow cascses at abattoir									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average									1.0 (1)

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

Beef									1.0 (1)
Northern Cape									
Kimberley, Kimberley Dierekliniek									
Beef: 1									
Metabolic Diseases									
Acidosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (4)	1.3 (3)		1.5 (2)	

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

<b>Beef</b>	1.0 (1)		2.0 (2)	1.0 (1)		1.0 (1)	
<b>Dairy</b>				1.0 (1)			
<b>Sheep</b>			2.0 (2)			2.0 (1)	
<b>Goat</b>				2.0 (1)			

<b>Mpumalanga</b>
<b>Lydenburg, Longtom Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Ficksburg, Oosvrystaat Diere Produkte</b>
Beef: 2, Sheep: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Beef: 1, Goat: 2

**Dundee, Endumeni Herd health**

Dairy: 1

**Western Cape****Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Plettenberg Bay, Plettenberg Bay A Reitz**

Beef: 1

Cow on oats pasture and maize meal. Underlying problem poor teeth. Consumed too much maize meal

**Displaced abomasum**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.0 (1)	2.7 (3)		1.0 (1)	

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

Beef	1.0 (1)								
Dairy					1.0 (1)	2.7 (3)		1.0 (1)	

**Mpumalanga****Lydenburg, Longtom Direklinik**

Beef: 1

**Free State****Wesselsbron, Wesselsbron Direklinik**

Dairy: 1

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

Dairy: 3

**Howick, Howick Veterinary Clinic**

Dairy: 3

**Underberg, Underberg Veterinary Surgery**

Dairy: 2

**Western Cape****Plettenberg Bay, Plettenberg Bay A Reitz**

Dairy: 1

Died

**Ketosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	2.0 (1)		1.5 (2)	3.0 (1)

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

Dairy						2.0 (1)			
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<b>Sheep</b>		2.0 (1)		1.5 (2)	3.0 (1)
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#### Free State

**Winburg, Winburg Dierekliniek**

Sheep: 2

#### Kwazulu-Natal

**Dundee, Endumeni Herd health**

Dairy: 2

#### Western Cape

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Sheep: 1

#### Northern Cape

**Colesberg, Karoo Veterinary Hospital**

Sheep: 3

Ketosis in heavy pregnant ewes

Milk Fever									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					2.0 (1)	2.0 (3)		1.0 (1)	1.3 (3)

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

<b>Beef</b>									1.0 (1)
<b>Dairy</b>					2.0 (1)	2.0 (3)			1.5 (2)
<b>Sheep</b>								1.0 (1)	

#### Free State

**Memel, Memel Veterinary Clinic**

Dairy: 2

#### Kwazulu-Natal

**Dundee, Endumeni Herd health**

Dairy: 2

**Estcourt, Estcourt Vet Clinic**

Dairy: 1

**Howick, Howick Veterinary Clinic**

Dairy: 3

#### Western Cape

**Worcester, Durban Straat Dierekliniek Worcester**

Sheep: 1

#### Northern Cape

**Colesberg, Karoo Veterinary Hospital**

Dairy: 2

A few cases in dairy cows

**Kimberley, Kimberley Dierekliniek**

Beef: 1

**Postmasburg, Postmasburg Dierekliniek**

Dairy: 1

## Reproductive diseases

### Dystocia (Difficult Births)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	1.6 (5)	3.0 (1)	2.2 (5)	1.9 (18)	1.8 (11)	1.0 (1)	1.9 (7)	1.8 (4)

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

Beef	2.0 (4)	1.7 (3)	3.0 (1)	2.2 (5)	2.0 (15)	1.8 (9)	1.0 (1)	1.5 (4)	1.7 (3)
Dairy					1.0 (2)	2.0 (2)		2.3 (3)	
Sheep		1.5 (2)			3.0 (1)				2.0 (1)

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 2

##### Bethal, Bethal Dierekliniek

Beef: 1

##### Grootvlei, Grootvlei Dierekliniek

Beef: 2

##### Volkswest, Cape Cross Volkswest Dierehospitaal

Beef: 3

#### Gauteng

##### Bapsfontein, Bapsfontein Dierehospitaal

Beef: 2, Sheep: 2

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

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

Beef: 2

#### Limpopo

##### Mokopane, Bundu Veterinary Services

Beef: 3

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 3

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

##### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

##### Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 1

##### Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

#### Free State

**Bloemfontein, Dr Stephan Wessels**

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2, Dairy: 1

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Hertzogville, Hertzogville Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

**Memel, Memel Veterinary Clinic**

Beef: 1

**Parys, Parys Dierehospitaal**

Beef: 2

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Senekal, Senekal Dierekliniek**

Beef: 2, Dairy: 1

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

**Vrede, Vrede Dierehospitaal**

Beef: 1

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 2

**Dundee, Endumeni Herd health**

Beef: 1, Dairy: 1

**Howick, Howick Veterinary Clinic**

Beef: 1, Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Newcastle, Ncanduvet Newcastle**

Beef: 3

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Vryheid, Vryheid Privaat Veeartse**

Beef: 1

**Eastern Cape****Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

**Western Cape****Caledon, Caledon Dierekliniek**

Dairy: 2

**Caledon, Overberg Veterinary Hospital**

Dairy: 2

**Ceres, Ceres Veterinary Hospital**

Beef: 2

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 1

**Malmesbury, Groenkloof Dierekliniek**

Beef: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

**Northern Cape****Kimberley, Kimberley Dierekliniek**

Beef: 1

**Postmasburg, Postmasburg Dierekliniek**

Beef: 2

**Upington, Upington Veeartsenykliniek**

Beef: 2

A few distocias in cows

Sheep: 2

A few distocias in sheep ewes

**Endometritis**

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

Dairy					1.0 (1)	2.0 (1)		3.0 (1)	
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**Free State****Clocolan, Clocolan Dierekliniek**

Dairy: 1

**Kwazulu-Natal****Howick, Howick Veterinary Clinic**

Dairy: 2

**Western Cape****Caledon, Caledon Dierekliniek**

Dairy: 3

**Metritis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		3.0 (1)	1.5 (2)	2.5 (2)		2.5 (4)	



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

<b>Beef</b>		3.0 (1)		2.5 (2)		3.0 (1)
<b>Dairy</b>			1.5 (2)			2.3 (3)
<b>Sheep</b>	1.0 (1)					

#### Gauteng

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 3

#### Free State

##### Clocolan, Clocolan Dierekliniek

Dairy: 1

##### Senekal, Senekal Dierekliniek

Dairy: 2

#### Kwazulu-Natal

##### Mooi River, Mooirivier Vet Clinic

Beef: 2

##### Underberg, Underberg Veterinary Surgery

Beef: 3

#### Western Cape

##### Caledon, Caledon Dierekliniek

Dairy: 3

##### Darling, Tygerberg Dierehospitaal Darling

Beef: 3

##### Malmesbury, Dr Otto Kriek

Dairy: 1

##### Swellendam, Swellendam Dierehospitaal

Dairy: 3

### Poor conception



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>			1.0 (1)		1.5 (2)	2.3 (3)		2.6 (5)	

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

<b>Beef</b>			1.0 (1)		2.0 (1)	1.0 (1)			
<b>Dairy</b>						3.0 (2)		2.6 (5)	
<b>Sheep</b>					1.0 (1)				

#### Limpopo

##### Mokopane, Bundu Veterinary Services

Beef: 1

Infertility in a bull

**Free State****Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

**Kwazulu-Natal****Howick, Howick Veterinary Clinic**

Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Dairy: 3

Poor conception - early foetus deaths on scanning - uncharacteristic hot weather and nutritional stress

**Western Cape****Caledon, Caledon Dierekliniek**

Dairy: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 2

High BUN levels, needed to be treated with a severe sense of urgency by nutritionists and farmers

**Malmesbury, Groenkloof Dierekliniek**

Dairy: 2

Good and poor

**Malmesbury, Invitrotech**

Dairy: 3

Poor reproduction, culled 11 cows

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

Cystic ovaries

**Retained afterbirth**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)	2.0 (6)		1.3 (3)	

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

Beef					2.0 (1)	1.8 (4)		1.0 (1)	
Dairy						2.5 (2)		1.5 (2)	

**Free State****Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Dundee, Endumeni Herd health**

Dairy: 2

**Howick, Howick Veterinary Clinic**

Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 1
<b>Pietermaritzburg, Veterinary House Hospital</b>
Beef: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3
<b>Western Cape</b>
<b>Caledon, Caledon Dierekliniek</b>
Dairy: 2
<b>Malmesbury, Dr Otto Kriek</b>
Dairy: 1
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Beef: 1

Sheath Prolaps									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.7 (3)	1.0 (3)		1.0 (1)	

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

Beef	1.0 (1)				1.7 (3)	1.0 (3)		1.0 (1)	
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<b>Mpumalanga</b>
<b>Bethal, Bethal Dierekliniek</b>
Beef: 1
<b>Free State</b>
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 2
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Beef: 1
<b>Reitz, Riemland Dierehospitaal</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 1
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 1
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1
<b>Western Cape</b>
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Beef: 1

Uterus prolaps									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			1.0 (1)	1.8 (5)	1.5 (2)		1.0 (2)	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

<b>Beef</b>	1.0 (1)		1.0 (1)	1.8 (5)		1.0 (1)	1.5 (2)
<b>Dairy</b>				1.5 (2)		1.0 (1)	

#### **Mpumalanga**

##### **Lydenburg, Longtom Dierekliniek**

Beef: 1

#### **North West**

##### **Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 1

#### **Free State**

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

Beef: 1

##### **Frankfort, Frankfort Dierekliniek**

Beef: 2

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

Beef: 2

##### **Reitz, Riemland Dierehospitaal**

Beef: 2

##### **Winburg, Winburg Dierekliniek**

Beef: 2

#### **Kwazulu-Natal**

##### **Estcourt, Estcourt Vet Clinic**

Dairy: 1

##### **Howick, Howick Veterinary Clinic**

Dairy: 2

#### **Western Cape**

##### **Malmesbury, Invitrotech**

Dairy: 1

##### **Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

#### **Northern Cape**

##### **Kimberley, Kimberley Dierekliniek**

Beef: 1

##### **Postmasburg, Postmasburg Dierekliniek**

Beef: 2

### **Vaginal (Cervical) prolaps**



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (3)	2.0 (1)		1.0 (1)	1.7 (7)	1.3 (6)		2.0 (3)	

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

<b>Beef</b>	1.0 (2)	2.0 (1)		1.0 (1)	1.6 (5)	1.4 (5)		1.5 (2)	
<b>Dairy</b>						1.0 (1)		3.0 (1)	

Sheep	1.0 (1)	2.0 (2)							
Mpumalanga									
Grootvlei, Grootvlei Dierekliniek									
Beef: 1, Sheep: 1									
Volksrust, Cape Cross Volksrust Dierehospitaal									
Beef: 1									
Gauteng									
Hammanskraal, Themba Animal Clinic									
Beef: 2									
North West									
Brits, Brits Dierekliniek									
Beef: 1									
Free State									
Bultfontein, Greylingsrust Dieresprekkamer									
Sheep: 2									
Clocolan, Clocolan Dierekliniek									
Beef: 1									
Frankfort, Frankfort Dierekliniek									
Beef: 2									
Ladybrand, Ladybrand Dierekliniek									
Beef: 1									
Memel, Memel Veterinary Clinic									
Sheep: 2									
Reitz, Riemland Dierehospitaal									
Beef: 2									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 2									
Camperdown, Camperdown Vet Clinic									
Beef: 1, Dairy: 1									
Howick, Howick Veterinary Clinic									
Beef: 2									
Mtubatuba, Mtubatuba Animal Clinic									
Beef: 1									
Pietermaritzburg, Veterinary House Hospital									
Beef: 1									
Western Cape									
Caledon, Caledon Dierekliniek									
Beef: 1									
Caledon, Overberg Veterinary Hospital									
Beef: 2									
Swellendam, Swellendam Dierehospitaal									
Dairy: 3									
Climatical Cause									
Cold exposure									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

<b>Average</b>						1.0 (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									
<b>Sheep</b>						1.0 (1)		3.0 (2)	
<b>Goat</b>						1.0 (1)			
<b>Kwazulu-Natal</b>									
<b>Pongola, Pongola Animal Clinic</b>									
Sheep: 1, Goat: 1									
<b>Western Cape</b>									
<b>Caledon, Caledon Dierekliniek</b>									
Sheep: 3									
<b>Caledon, Overberg Veterinary Hospital</b>									
Sheep: 3									
<b>Drought</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>							2.4 (10)	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									
<b>Beef</b>							2.3 (3)		3.0 (1)
<b>Dairy</b>							3.0 (1)		
<b>Sheep</b>							2.3 (3)	2.0 (1)	3.0 (1)
<b>Goat</b>							2.3 (3)		3.0 (1)
<b>Eastern Cape</b>									
<b>Cradock, Cradock Veterinary Clinic</b>									
Beef: 3, Sheep: 3, Goat: 3									
<b>Steynsburg, Steynsburg Dierehospitaal</b>									
Beef: 3, Dairy: 3, Sheep: 3, Goat: 3									
<b>Witelsbos, Witelsbos Veterinary Consulting Rooms</b>									
Beef: 1, Sheep: 1, Goat: 1									
<b>Western Cape</b>									
<b>Vredenburg, Vredenburg Dierehospitaal</b>									
Sheep: 2									
Dry and windy, South Easterly wind is blowing.									
<b>Northern Cape</b>									
<b>Postmasburg, Postmasburg Dierekliniek</b>									
Beef: 3, Sheep: 3, Goat: 3									
<b>Heat stress</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North West</b>	<b>Free State</b>	<b>Kwazulu-Natal</b>	<b>Eastern Cape</b>	<b>Western Cape</b>	<b>Northern Cape</b>
<b>Average</b>						2.8 (4)	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

<b>Beef</b>		2.7 (3)	3.0 (1)	
<b>Dairy</b>		3.0 (1)		1.0 (1)
<b>Sheep</b>				2.0 (1)

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 3

##### Howick, Howick Veterinary Clinic

Beef: 2, Dairy: 3

##### Underberg, Underberg Veterinary Surgery

Beef: 3

#### Eastern Cape

##### Alexandria, Alexandria Platteland Spreekkamer

Beef: 3

#### Western Cape

##### Caledon, Overberg Veterinary Hospital

Sheep: 2

##### Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

## Lightning

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.8 (4)			2.0 (1)	2.0 (10)	2.5 (4)		2.0 (1)	

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

<b>Beef</b>	1.8 (4)			2.0 (1)	2.0 (9)	2.5 (4)			
<b>Sheep</b>					2.0 (1)			2.0 (1)	

#### Mpumalanga

##### Balfour, Balfour Direkliniek

Beef: 1

##### Lydenburg, Longtom Direkliniek

Beef: 2

##### Piet Retief, Pets Vet Hospital

Beef: 2

##### Volksrust, Cape Cross Volksrust Dierehospitaal

Beef: 2

#### North West

##### Leeudoringstad, Leeudoringstad Direkliniek

Beef: 2

#### Free State

##### Bloemfontein, Dr Stephan Wessels

Beef: 2

##### Clocolan, Clocolan Direkliniek

Beef: 2									
Frankfort, Frankfort Dierekliniek									
Beef: 2									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3									
Ladybrand, Ladybrand Dierekliniek									
Sheep: 2									
Memel, Memel Veterinary Clinic									
Beef: 2									
Reitz, Riemland Dierehospitaal									
Beef: 2									
Villiers, Wilgepoort Dierekliniek Vennootskap									
Beef: 2									
Wesselsbron, Wesselsbron Dierekliniek									
Beef: 1									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 2									
Dundee, Endumeni Herd health									
Beef: 2									
Mooi River, Mooirivier Vet Clinic									
Beef: 3									
Newcastle, Ncanduvet Newcastle									
Beef: 3									
Western Cape									
Beaufort West, Beaufort Dierekliniek									
Sheep: 2									
Frozen to death									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep								3.0 (1)	
Western Cape									
Caledon, Overberg Veterinary Hospital									
Sheep: 3									
Non specific diseases									
Cause of death not established									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				



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

<b>Beef</b>	1.0 (1)
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**Free State**  
**Clocolan, Clocolan Dierekliniek**  
 Beef: 1

## Preditors [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)				2.3 (4)				

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

<b>Beef</b>	2.0 (1)				2.0 (2)				
<b>Sheep</b>	2.0 (1)				2.5 (2)				

**Mpumalanga**  
**Lydenburg, Longtom Dierekliniek**  
 Beef: 2, Sheep: 2

**Free State**  
**Clocolan, Clocolan Dierekliniek**  
 Beef: 2, Sheep: 2  
**Villiers, Wilgepoort Dierekliniek Vennootskap**  
 Beef: 2, Sheep: 3

## Sabotage/Theft [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (1)				2.6 (8)	2.0 (1)			

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

<b>Beef</b>	2.0 (1)				2.8 (4)	2.0 (1)			
<b>Dairy</b>					1.0 (1)				
<b>Sheep</b>					3.0 (3)				

**Mpumalanga**  
**Lydenburg, Longtom Dierekliniek**

Beef: 2

#### Free State

**Clocolan, Clocolan Dierekliniek**

Beef: 3, Dairy: 1, Sheep: 3

**Frankfort, Frankfort Dierekliniek**

Beef: 3, Sheep: 3

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 3, Sheep: 3

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.5 (4)							

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

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

#### Mpumalanga

**Bethal, Bethal Dierekliniek**

Sheep: 1

#### Gauteng

**Hammanskraal, Themba Animal Clinic**

Beef: 2, Goat: 2

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

Beef: 1

Fracture

Sheep: 1

Fracture

Traumatic Reticulo-pericarditis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)				

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

Beef					1.0 (1)				
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#### Free State

**Parys, Parys Dierehospitaal**

Beef: 1

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