

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

## **November 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 (151) submitted reports during November 2020:**

### **Mpumalanga (13)**

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

### **Gauteng (12)**

Bapsfontein – Drs. Engelbrecht and Olivier  
Bronkhorstspuit – Dr. De Bruin, De Bruin and Labuschagne  
Hammanskraal – Dr. Hentie Engelbrecht  
Krugersdorp-Veeartsnetwerk – Dr. Danie Odendaal  
Magaliesburg – Dr. Ryan Jeffery  
Muldersdrift – Drs. Speedy and Enslin  
Nigel – Dr. Cindy van der Westhuizen  
Nigel – Dr. Henry Labuschagne

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

Pretoria – Dr. Hanneke Pienaar

Rayton – Dr. Frans Malan

Vanderbijlpark – Dr. Kobus Kok

### **Limpopo (7)**

Bela-Bela (Warmbaths) – Dr. Nele Sabbe

Bela-Bela – Drs. Du Toit, Hansen, Bester, Herbst and Malan

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

Mokopane (Potgietersburg) – Dr. Henk Visser

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

Tzaneen – ZZ2 Farm Practice - Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

### **North West (16)**

Beestekraal – Dr. Alwyn Venter

Bloemhof – Dr. Cizelle Naude

Brits – Dr. Boshoff and Coertze

Brits – Dr. Gerhardus Scheepers

Christiana – Dr. Pieter Nel

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

Leeudoringstad – Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie-Krüger-Rall

Ottosdal – Dr. Sharnelle Ferreira

Potchefstroom – Dr. Martin Jordaan

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

Vryburg – Dr. Jurie Kritzing

Vryburg – Drs. De Jager and Rautenbach

### **Free State (29)**

Bethlehem – Drs. Strydom and Strydom

Bethlehem – Dr. J.C du Plessis

Bloemfontein – Dr. Stephan Wessels

Bloemfontein – Dr. Lizanne Meiring

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Kleynhans

Dewetsdorp – Dr. Marike Badenhorst

Excelsior/Ladybrand – Dr. Dedré Nel  
Ficksburg – Dr. Woody Kotzé  
Frankfort – Drs. Lesssing, Cilliers and Janse van Rensburg  
Harrismith – Dr. Wim Slabber  
Hoopstad – Dr. Kobus Pretorius  
Hoopstad – Dr. Cassie van der Walt  
Kroonstad – Drs. Daffue, Eksteen, Van Zyl and Van der Walt  
Memel – Drs. Nixon and Nixon  
Oranjeville - Dr. D’Wall Hauptfleisch  
Parys – Drs. Wessels and Wessels  
Philippolis – Dr. Stephan Vermeulen  
Reitz – Dr. Murray Smith  
Senekal – Dr. Jan Blignaut  
Senekal – Dr. Theo Kotze  
Smithfield – Dr. Nienke van Hasselt  
Viljoenskroon – Dr. Johan Kahts  
Villiers – Krüger and Maree  
Vrede – Drs. Bester-Cloete, Myburgh and Roos  
Warden – Dr. Paul Reynolds  
Wesselsbron – Dr. Johan Jacobs  
Winburg – Drs. Albertyn and Albertyn  
Zastron – Drs. Troskie and Strauss

#### **KwaZulu-Natal (14)**

Bergville – Dr. Ariena Shepherd  
Bergville – Dr. Jubie Muller  
Camperdown – Dr. Anthony van Tonder  
Dundee – Drs. Marais and Fynn  
Eshowe – Drs. Pryke and Hoffman  
Estcourt – Drs. Turner, Tedder, Taylor, Tratschler, Van Rooyen and Alwar  
Kokstad – Drs. Clowes, Shrives and Lees  
Mtubatuba – Dr. Trevor Viljoen  
Newcastle – Dr. Barry Rafferty  
Underberg – Drs. King, Delaney and Huysamer  
Pietermaritzburg – Drs. Kretzmann, Watkins, De Freitas and Barnard  
Pongola – Dr. Heinz Kohrs  
Underberg – Drs. King, Delaney and Huysamer  
Vryheid – Drs. Theron and Theron

#### **Eastern Cape (15)**

Adelaide – Dr. Steve Cockroft  
Alexandria – Dr. Charlene Boy

Alexandria – Dr. Johan Olivier  
Aliwal North – Drs. Troskie and Strauss  
Bathurst – Dr. Jane Pistorius  
East London – Dr. Robbie McFarlane  
Graaff- Reinet - Dr. Roland Larson  
Graaff-Reinet – Hobson, Strydom and Hennesy  
Humansdorp – Drs. Van Niekerk, Jansen van Vuuren and Davis  
Jeffreys Bay - Drs. Lategan and Hoek  
Kareedouw – Dr. Marten Bootsma  
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, Smal and Greyling  
Ceres – Drs. Pieterse, Wium, De Villiers and Scheepers  
Darling – Drs. Van der Merwe, Adam, Jenkins and Lord  
George – Drs. Strydom, Truter and Pettifer  
George – Dr. Riaan Putter  
Heidelberg – Dr. Albert van Zyl  
Malmesbury – Dr. Otto Kriek  
Malmesbury – Drs. Heyns and Zolner  
Malmesbury – Drs. Bosman and Groenewald  
Malmesbury – Dr. Andries Lesch  
Moorreesburg – Dr. Suenett Kotzé  
Oudtshoorn – Dr. Glen Carlisle  
Oudtshoorn – Dr. Adriaan Olivier  
Paarl – Dr. Carla van der Merwe  
Piketberg – Dr. André van der Merwe  
Plettenberg Bay – Dr. André Reitz  
Stellenbosch – Dr. Alfred Kidd  
Swellendam – Drs. Malan and Fourie  
Vredenburg – Dr. Izak Rust  
Wellington – Drs. Van Zyl and Louw  
Worcester – Dr. Kobus Rabe

**Northern Cape (10)**

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous  
De Aar – Dr. Donald Anderson  
Kathu – Dr. Jan Vorster  
Kimberley – Drs. Swart, Smith and Hyslop  
Kimberley – Drs. Van de Wateren and Van de Wateren  
Kuruman – Dr. Gerhard van der Westhuizen  
Postmasburg – Dr. Boeta van der Merwe  
Kimberley – State Veterinary group (NC)  
Upington – Drs. Vorster and Visser

**Feedlots (2)**

Dr. Eben Du Preez  
Drs. Morris and Le Riche

**Mastitis consultant (1)**

Dr. Theo Kotzé – Moqhaka district (Kroonstad municipality)

**Laboratory reports (8)**

Dr. Marijke Henton - Vetdiagnostix, Johannesburg  
Dr. Rick Last – Vetdiagnostix, Pietermaritzburg  
Dr. Liza du Plessis – Idexx SA  
Provincial Veterinary laboratory (Dr. Annelie Cloete) - Stellenbosch  
Dr. Mark Chimes – Dairy Standard, George  
Dr. Sophette Gers – Pathcare, Cape Town  
Prof. Emily Mitchell – University of Pretoria  
Amanda McKenzie – Vryburg Veterinary Laboratory

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

I am employed as an Animal Health Technician in the Department of Agriculture Veterinary Services in the Vryburg district.

I bleed about 3 500 cattle per month for testing them for bovine brucellosis. Many farmers, especially stud farmers test their animals for brucellosis BUT most of the commercial beef farmers do NOT test their animals!

**Case 1:**

I had been involved with a dairy herd where the farmer had to cull his whole herd due to animals he bought in from the Free State. The farmer who sold the cattle told the buyer that his animals were free

of brucellosis, which was not the case. I told my client that he should test the animals before bringing them to his farm. I was prepared to go with him to the Free State to test the animals there, ensure that they are brucellosis negative before transporting them to his farm.

The farmer declined my offer.

**The outcome was that the animals brought in were Brucellosis positive and his whole herd were culled after 3 years due to the spread of the disease in his herd.**

#### **Case 2:**

Another client farmed with a Brangus stud and he tested his animals regularly for brucellosis. His herd became infected with bovine brucellosis when some of his cattle came into contact with positive cattle from his neighbour who never tested his animals.

**The result was that he sold his remaining brucellosis “clean” confirmed animals and his farm. What an economic loss!**

It is a pity that not ALL farmers are cooperating to control and erradcate brucellosis in their area. **We will never control this silent eroding disease if every cattle farmer is not taking this disease seriously!**

The State and Private sector have to work together to eradicate ths disease.

**Recently a campaign was run by the South African Veterinary Council and the Department of Agriculture, Land Reform and Rural Developmet to make people aware of the danger of Bovine Brucellosis and how to protect yourself and control this dangerous zoonotic disease.**

Below are links that are available for your perusal:

#BrakesonBrucellosis

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

Brucellosis Campaign: What is Brucellosis?

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

Brucellosis awareness – do you know?

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

Brucellosis - Have you tested?

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

Brucellosis - Dangers of consuming raw dairy products

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

Brucellosis – The silent enemy in humans

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

Brucellosis - The Trojan Horse for your herd

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

Brucellosis: Is a herd disease

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

Brucellosis: Cattle branding – C=Brucellosis positive

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

Brucellosis – Farmer Responsibility

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

Brucellosis – Abattoirs

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

Brucellosis – Is the consumer at risk for contracting Brucellosis?

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

Brucellosis – Prevention for the Veterinarian and Para-Veterinarian

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

## **FOOT AND MOUTH DISEASE**

### **UPDATE REPORT 25 NOVEMBER 2020**

<http://nahf.co.za/fmd-update-report-2020-11-25/>

**BEWARE!!!!**

## Highly pathogenic Avian Influenza (HPAI)

*By Lesley van Helden, State Veterinarian Epidemiology, Western Cape Department of Agriculture*

EPIDEMIOLOGY REPORT VETERINARY SERVICES November 2020 Volume 12 Issue 11

In June 2017, H5N8 highly pathogenic avian influenza (HPAI) broke out in South Africa, spreading quickly across the country and causing devastating losses on many poultry farms. The virus moved south across Africa following its spread in Europe and Asia in the Northern Hemisphere autumn and winter of 2016/17.

Its long-distance spread is believed to be facilitated by the movement of migratory wild birds. There were sporadic detections of H5N8 HPAI in wild birds in Europe from January until June 2020. However, genetic sequence analysis shows that a new variant of the virus was introduced to Europe via Iraq, Russia and Kazakhstan in May 2020, and in October 2020 to Western Europe likely by wild birds migrating there for autumn and winter.

Between 27 October and 28 November 2020, 552 outbreaks of H5N8 HPAI have been reported in Europe in domestic and wild birds. The vast majority of cases have been reported in wild birds that were found dead or moribund. This apparently represents a small proportion of the wild bird mortalities observed in the field. Several dozen poultry establishments have also been infected by the virus and the birds had to be culled in response. New strains of H5N5 and H5N1 viruses were also detected in wild birds, with sequencing indicating that they originated from the same common ancestor as the current strain of H5N8 and went through several viral reassortment events.

The new variant of H5N8 HPAI has also been detected recently in both wild birds and domestic poultry in several Asian countries, including Russia and China. The OIE recognises the detection of HPAI in wild birds as the cause of increased risk of outbreaks of HPAI in countries along the flyways used by wild birds for seasonal migration. This situation should be of concern to us in Southern Africa after our experiences with avian influenza in 2017.

Many species of wild birds migrate between Eurasia and the African continent, bringing with them the potential of introducing new avian influenza viruses. Increased vigilance is necessary to detect any sign of a new incursion of highly pathogenic AI into South Africa. Poultry farmers and veterinarians should use this opportunity to ensure that biosecurity protocols are in place to prevent entry of pathogens onto farms.

In 2021, all producers should be on the lookout for unusual increases in mortality rates, as well as typical clinical signs of avian influenza, including respiratory signs, swollen wattles and facial skin, diarrhoea and decreased egg production. Any unusual mortalities in wild birds should be reported to the local state veterinarian as soon as possible. Surveillance for avian influenza in wild birds is a good early warning system.



However, it is far more effective when samples are taken from very fresh carcasses or ill birds that are still alive.

#### References:

Adlhoch et al. (2020) Avian influenza review– update on 19 November 2020, EU/EEA and the UK. EFSA Journal, 18 (11).

Brouwer et al. (2020) Summary of HPAI H5 activity in Europe: 27 Oct to 28 Nov 2020. Prepared by APHA Weybridge.

Khomenko et al. (2018) '2016–2018 Spread of H5N8 highly pathogenic avian influenza (HPAI) in sub-Saharan Africa: epidemiological and ecological observations. FAO Focus On, 12 News.

<http://www.fao.org/3/ca1209en/CA1209EN.pdf> OIE- Highly Pathogenic Avian Influenza (HPAI) Report No 17: 23 Oct 2020 to 12 Nov 2020.

<https://tinyurl.com/y5uzaomb> OIE World Animal Health information System.

[https://www.oie.int/wahis\\_2/public/wahid.php/](https://www.oie.int/wahis_2/public/wahid.php/) Wild water birds such as the Eurasian wigeon have been implicated in the spread of highly pathogenic avian influenza in the Northern Hemisphere.

Beyond our borders: H5N8 HPAI in the Northern Hemisphere Lesley van Helden 2

## **BEWARE**

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

Rift Valley Fever

Wesselsbron disease

Blue tongue

Lumpy skin disease

Ephemeral fever (Three-day-stiff sickness)

African Horse sickness

# BEWARE

## AFRICAN SWINE FEVER

**If you have pigs, read the latest update on  
African Swine Fever**

<http://nahf.co.za/wp-content/uploads/ASF-update-2020-12-08.pdf>

### **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 antiparasitides 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**

### **Get a traceability system in place**

#### **Biosecurity guidelines**

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

1. During a FMD outbreak it is the producer's responsibility to keep their animals from getting infected.
2. Although FMD does not pose a food safety or public health concern it has a major impact on animal health and international trade.
3. Each commercial farm should appoint a biosecurity manager.
4. A written biosecurity plan is a basic requirement.
5. Development of a plan must be done by the biosecurity manager with assistance from a veterinarian.
6. The biosecurity plan must include a line of separation/demarcation of the biosecurity area.
7. Training:
  - a. Train all personnel in biosecurity principles at least annually.
8. Access:
  - a. Access points to the area must be identified and demarcated clearly.
  - b. Loading site must be identified away from animals.
  - c. A cleaning and disinfection station needs to be made available and should be away from any animals and an SOP for cleaning of all vehicles entering the biosecurity area must be adhered to.
  - d. Parking areas away from animal areas must be provided.
  - e. Vehicle movement pathways must be mapped.
  - f. Draw up a map demarcating all these areas.
  - g. The control boundary should always be respected and identified to all personnel.

h. No access of vehicles or personnel to the biosecure area unless via proper decontamination protocols. People with any suspected contact with infected animals (or having been in an affected area) should stay away from “clean animals for at least a week.

i. Access points should be respected, well demarcated and procedures of access described. Biosecurity Guidelines-FMD 2019-11-19 2

j. Animals arriving on the farm should only be directly from a guaranteed healthy herd accompanied by signed and dated veterinary health certificates.

k. Personnel entering the biosecure area should shower and change clothing before entering the area.

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 cattle should be quarantined at least 100 meters for 21 days away from the herd.

b. There will be absolutely no contact with the herd either directly or indirectly.

c. They should only be introduced after clinical (and preferably serological) evaluation.

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

**The basis of Disease Control is Animal Identification and Traceability**

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

## **Very important legislation regarding the biosecurity rules for livestock agents**

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

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

BACKGROUND and DEFINITIONS:

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

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

- a) The rules for auctions in this document.
- b) Registration with the Agricultural Produce Agents Council (APAC) is compulsory and only registered agents will be allowed to conduct business.
- c) Acceptance of responsibilities in terms of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984. This gazette is also available free online at [www.gpwonline.co.za](http://www.gpwonline.co.za) 206 No. 43900 GOVERNMENT GAZETTE, 13 NOVEMBER 2020
- d) An external audit of the auction facilities and all procedures, including these rules for auctions, will be undertaken by an independent auditor, these audits will need to be submitted to APAC bi-annually.
- e) Every livestock agent must appoint a Biosecurity practitioner (a person registered with the South African Veterinary Council).

**"Biosecure area"** is the area where only animals whose documentation has been verified, identification and health status has been confirmed by a SAVC qualified person, i.e. animals unlikely to pose a significant risk of carrying any contagious disease-causing agents, as well as persons who have been decontaminated to the satisfaction of a biosecurity practitioner are allowed to enter;

**"Biosecurity practitioner"** a person registered with the South African Veterinary Council, who oversees compliance with minimum biosecurity requirements for animals from different origins congregating for auctioning, in line with the requirements of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984 and the rules in this document;

**"Animal Owner Health Attestation"** is a signed declaration from the owner of the animals that attests: This gazette is also available free online at [www.gpwonline.co.za](http://www.gpwonline.co.za) STAATSKOERANT, 13 NOVEMBER 2020 No. 43900 207 3

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

### Identification of animals

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

### Checking animals arriving at auctions

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

### Summary of disease report for November 2020

151 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 13; Gauteng (G) 12; Limpopo (L) 7; Northwest (NW) 16; Free State (FS) 29; KwaZulu-Natal (KZN) 14; Eastern Cape (EC) 15; Western Cape (WC) 24; Northern Cape (NC) 10; Feedlots (FL) 2; Mastitis consultant (MC) 1 and Laboratories (Lab) 8)

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

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

	Number of provinces reporting

Wireworm	9
Coccidiosis	9
Bont-legged ticks	9
Pulpy kidney	9
Ringworm	9
Abscesses	9
Eye infections	9
Lameness/foot problems	9
Dystocia	9
Retained afterbirth	9
Blue ticks	8
African red water	8
Asiatic red water	8
Blackquarter	8
Orf	8
Warts	8
Blue udder	8
Diarrhoea	8
Joint ill	8
Lung infection	8
Mastitis	8
Roundworms	7

Tapeworms	7
Cryptosporidiosis	7
Red-legged ticks	7
Nuisance flies	7
Anaplasmosis	7
Protein deficiency	7
Abortions	7
Downers	7
Acidosis	7
Uterine prolaps	7
Vaginal prolaps	7
Resistant roundworms	6
Heartwater ticks	6
Brown ear-ticks	6
Midges	6
Heartwater	6
Lumpy skin disease	6
Trichomonosis	6
Vibriosis	6
Red gut (cattle)	6
Blood gut (sheep)	6
Bovine brucellosis	6
<i>E. coli</i>	6



Energy deficiency	6
Stillbirths	6
Bloat	6
Poor conception	6
Traumatic reticulo -pericarditis	6
Liver fluke	5
<i>Parafilaria</i>	5
Blowflies	5
Nasal bot	5
Sweating sickness	5
Salmonellosis	5
Pasteurellosis	5
Prussic acid poisoning	5
Selenium deficiency	5
Eye cancer	5
Navel ill	5
Trauma	5
Metritis	5
Sheath prolaps	5

## Bovine Brucellosis

Although we have made positive steps in controlling Bovine brucellosis, the model disease stated in the Veterinary Strategy, we as a country is far from achieving our goal!

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

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

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

It is available in English and Afrikaans.

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

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

#### **VENDOR DECLARATION BOVINE BRUCELLOSIS**

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

1	The cattle for sale are clearly and permanently identified		Yes	No
2	The cattle for sale/slaughter were born on my farm		Yes	No
3	The farm has a closed herd policy i.e. I do not buy in cattle, rent out grazing or speculate with cattle		Yes	No
4	I practice bio-security on my farm to a level that is **	Poor	Moderate	Good
5	I vaccinate my heifer calves against Bovine Brucellosis once between the ages of 4 – 8 months		Yes	No
6	In addition, I vaccinate my cattle older than 8 months with RB51		Yes	No

7	I have all the cattle on my farm tested for Bovine Brucellosis		Yes (date)	No
8	My herd has been tested negative within the past year		Yes	No
9	I did not buy in cattle since my last negative brucellosis test		Yes	No
10	I/my vet investigates any abortions on my farm		Yes	No
11	To the best of my knowledge, my immediate neighbours and 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 PRETORIA  
UNIVERSITY OF PRETORIA  
UNIVERSITÉIT VAN PRETORIA



**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/>

## **Rural 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	
Resistant roundworms		x		x	x	x	x	x	
Wireworm	x	x	x	x	x	x	x	x	x
Brown stomach-worm								x	
Long-necked bankruptworm									
White bankruptworm									
Large-mouthed bowelworm									
Nodularworm									
Lungworm									
Eyeworm				x	x				
<i>Parafilaria</i>			x	x		x		x	x
Tapeworms	x	x	x	x	x	x	x		
Liver fluke		x		x	x	x		x	
Conical fluke	x				x		x		

Cysticercosis (measles)				x			x	x	
Schistosomiasis (bilharzia)									
Coccidiosis	x	x	x	x	x	x	x	x	x
Cryptosporidiosis	x	x	x	x	x	x		x	
<i>Giardia</i>				x					

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

**Wireworm outbreaks have been reported from all 9 provinces**

## BEWARE

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

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

Coccidiosis outbreaks were reported from 8 provinces. Young animals are most susceptible.

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

[https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs\\_l=img.1.1.0i10.2885.9850..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.1.1.0i10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric)

### Prevention of Cryptosporidiosis

Prevention is the best control method.

Animals with a well-developed immune system will generally overcome *Cryptosporidium* thus this 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

## **SOLUTION**

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

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

#### **INTRODUCTION**

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

For a start, we have to abandon the underlying philosophy that internal parasites are an evil plague which should be maximally suppressed, or preferably eradicated. We have to learn to live with parasites, and prevent only the unacceptable production losses, while simultaneously breeding animals fit for the environment, rather than making the environment fit for existing animals. By regarding parasites as part of the natural order of things, we will be able to see them simply as potential problems to be managed in order to achieve optimum productivity and profitability.

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

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

## **WORM MANAGEMENT PRINCIPLES**

### **A FLOCK MANAGEMENT REQUIREMENTS**

#### **Separation of Groups**

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

#### **Identify the groups most at risk**

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

### **Separation of pastures**

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

### **Resting of pastures**

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

### **Alternation of host species**

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

### **Mend water leaks**

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

### **Avoid grass in pens**

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

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

**Fence off moist areas**

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

### **Strategic movement of flocks**

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

### **Quarantine and treatment**

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

## **B GENETIC SELECTION**

### **Selection for resistance**

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

### **Selection for resilience**

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

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

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



## **C      MONITORING SYSTEMS**

### **FEC**

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

### **FECRT**

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

### **FAMACHA® evaluation**

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

## **D      OPTIMISE ANTHELMINTIC USE**

### **Establish the important parasites species present**

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

### **Use the most suitable drug**

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

### **Avoid too frequent treatment**

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

### **Treat all and stay**

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

### **Treat selectively**

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

## **Move then treat**

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

## **Herbal Remedies**

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

## **E IMPROVED ANTHELMINTIC EFFICACY**

### **Dose over the tongue**

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

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

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

### **Reduce feed intake**

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

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

### **Repeat the dose**

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

### **Increase the dose**

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

### **Correct dosage**

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

### **Drug combinations**

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

### **Sustained delivery**

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

### **Goats are different**

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

## **F EFFECTIVE PLANNING**

### **Use the expert**

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

### **Use a programme**

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

### **Flexibility**

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

### **Treatment strategy**

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

## **II OTHER MEASURES AND FACTORS**

### **Protein supplementation**

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

### **Condition scoring**

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

### **Weather monitoring**

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

### **Flock/Herd history**

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

### **Veld/pasture assessment and history**

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

### **Assessment and decision support computer programmes**

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

## **III CONTROL MEASURES UNDER DEVELOPMENT**

### **Predacious fungi**

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

### **Dilution of resistance**

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

### **Vaccination**

Although this “holy grail” of worm control still remains a mirage as a practical, economical solution to worms, it is theoretically attainable and may be a potent factor when the problems which have prevented its commercial implementation are eventually overcome.

### **Condensed Tannins**

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

### **Cupric oxide**

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

### **Change in body weight**

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

## **IV INTEGRATED PARASITE MANAGEMENT**

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

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

## **V ACTION CHECKLIST**

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

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

Make sure that the farmer understands and supports the need for change  
Ensure that all measures are practical, integrated and financially defensible



Use an incremented approach, do not try to do everything at once  
Evaluate and use knowledge in stock flow, reproductive programme, grazing systems, pasture or veld conditions and weather to decide on appropriate and integrated worm management actions.  
Are the groups/classes of animals properly separated? If not, implement this if possible.  
Give weanlings and late pregnant/lactating ewes most attention and the best circumstances  
Are the pastures properly fenced, and are there enough camps for effective management?  
Implement a satisfactory pasture resting programme. Keep well rested pastures for susceptible groups  
Graze camps sequentially by cattle, small stock and other host species if available  
Make sure that animals are getting the right nutrition, especially protein, and avoid putting animals in poor condition onto high risk pastures  
Mend water leaks and fence off moist areas  
Remove all grass from pens where animals are routinely held for long periods  
Buy rams selected for resistance (FEC) and/or resilience (FAMACHA<sup>®</sup>/haematocrit)  
Cull the minority of ewes which are unable to cope with prevailing parasite burdens  
Institute a planned programme for FECs to monitor the parasite situation  
Ensure that the FECRT is done every second year  
Introduce TST and Institute the FAMACHA<sup>®</sup> system for haemonchosis or BCS for other worm species  
Ensure that the types and relative importance of parasites have been established on each farm as well as when they are likely to occur  
Select and use the best drug for each situation  
If all animals are treated, do not move to new pastures for 2-3 weeks or longer depending on the drug and formulation used  
Ensure that the drug used is given in the most effective way  
Quarantine and treat all introductions and put them onto infected pasture  
Stick to what is possible in a given situation

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

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

[https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs\\_l=img.1.1.0l10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric](https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0l10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric)

## External parasites

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

External parasites	MP	G	L	NW	FS	KZN	EC	WC	NC
Blue ticks	x	x	x	x	x	x	x	x	
Resistant blue ticks					x	x			
Heartwater ticks	x	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	x				
Tampans									
Biting lice				x	x	x		x	
Sucking lice					x				
Fleas									
Itch mites					x				
Sheep scab					x		x		
Mange mites	x			x	x				
Nuisance flies	x	x		x	x	x	x	x	
Midges	x	x		x	x	x		x	
Mosquitoes		x		x	x			x	
Blowflies	x	x			x	x	x		
Screw-worm	x				x			x	
Gedoeftia (uitpeuloogsiekte)					x				
Nasal bot	x	x		x	x			x	

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

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

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

Discuss your tick control programme with your veterinarian.

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

**Now is the time to update your management programme with the help of your veterinarian!**

## Tick borne diseases

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

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

**Asiatic red water** is spreading and is one of the deadliest diseases in cattle (8 provinces).

Numerous mortalities were reported!

**Anaplasmosis** outbreaks were reported from 7 provinces. Biting flies are the main transmitters of this disease.

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

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

#### Tick toxicosis

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

#### Insect transmittable diseases

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

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

Vaccines are available, the only reason why there were so many outbreaks of lumpy skin disease, blue tongue and three-day-stiff sickness last season, could have been that animals were not vaccinated or that the cold chain was broken! Now is the time to plan your vaccination programme for the upcoming disease season.

**You still have a chance to vaccinate before the insects are rife.**

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

## BEWARE

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

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

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

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

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, tuberculosis, Johne's disease and sheep scab.

### Bacterial diseases

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
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<b>Anthrax</b>									
<b>Blackquarter</b>	x	x	x	x	x	x	x	x	
<b>Clostridial disease</b>						x	x		
<b>Botulism</b>				x	x				
<b>Pulpy kidney</b>	x	x	x	x	x	x	x	x	x
<b>Lamb dysentery</b>									
<b>Swelled head</b>		x	x	x	x				
<b>Red gut (cattle)</b>	x	x		x	x	x	x	x	
<b>Blood gut (sheep)</b>		x	x	x	x			x	x
<b>Tetanus</b>					x				
<b>Salmonellosis</b>	x	x			x	x	x		
<i>Klebsiella</i>									
<b>Bovine brucellosis</b>	x		x	x	x		x		x
<i>Brucella melitensis</i> (goats)									
<b>Ovine brucellosis (Ram's disease)</b>					x				x
<b>Bovine tuberculosis</b>									
<b>Johne's</b>							x	x	
<b>Leptospirosis</b>									
<b>Listeriosis</b>									
<i>Pseudomonas</i>									
<i>Pasteurella multocida</i>									
<b>Pasteurellosis (see pneumonia -lungs)</b>			x		x	x	x	x	
<i>Fusibacterium necrophorum</i>	x				x				x
<b>Septicaemia</b>					x	x		x	

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

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

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

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

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

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

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

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

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

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

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

**Do not save yourself bankrupt!**

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

## **Viral diseases**

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

<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>Rabies (cattle)</b>				<b>x</b>	<b>x</b>			<b>x</b>	
<b>BVD</b>							<b>x</b>		
<b>IBR</b>			<b>x</b>				<b>x</b>		
<b>BRSV</b>									
<b>PI3</b>			<b>x</b>						
<b>Maedi visna virus</b>									
<b>Rotavirus</b>		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	
<b>Coronavirus</b>					<b>x</b>				
<b>Enzootic bovine leucosis (EBL)</b>					<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	
<b>Sheep leucosis</b>									
<b>Jaagsiekte</b>		<b>x</b>							



Orf	x	x		x	x	x	x	x	x
Warts	x	x		x	x	x	x	x	x
Herpes mammillitis - goats									

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

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

Keep cattle and wildebeest well separated especially when wildebeest are under stress to prevent snotsiekte outbreaks! There is also a sheep associated form of the disease.

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

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

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

Discuss vaccination programmes and biosecurity measures with your veterinarian.

Orf is a zoonosis.

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

## Fungal diseases

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

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

## Protozoal diseases

Protozoal diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
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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 (8 provinces) and ink berries (*Cestrum*).

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

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

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

## Nutritional deficiencies

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

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

Nutritional deficiencies were reported from most provinces. It is important that ewes and cows receive sufficient supplementation so as to have optimal colostrum quality for their offspring! Some parts of South Africa is still severely drought stricken.

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

## Micro-nutritional and vitamin deficiencies

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

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

There are antagonists such as calcium, iron and sulphur which hamper the uptake of micro-minerals. Have water and soil samples analysed to see what the levels of these antagonists are. Arrange with your veterinarian to have liver samples analysed to determine the status of these micro-minerals in your herd or flock.

Selenium is a powerful anti-oxidant and necessary for immunity. Check the status of the herd.

Beware of fluoride poisoning as borehole water levels drop.

### Supplement animals with vitamin A and Zinc during winter and drought conditions.

## Multifactorial diseases and other conditions

**The following conditions were reported by practices in the provinces**

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	x	x		x	x	x	x	x	
Stillbirths		x	x		x	x	x	x	
Abscesses	x	x	x	x	x	x	x	x	x
Intestinal ulcers									
Bladder stones –uroolithiasis	x	x			x				x
Blindness				x	x			x	x
Bloat	x	x			x	x		x	x
Blue udder	x	x		x	x	x	x	x	x
Diarrhoea	x	x		x	x	x	x	x	x
Epididymitis	x								
Eye cancer	x	x			x	x		x	
Eye infections	x	x	x	x	x	x	x	x	x
Skin lymphoma									
Joint ill	x	x	x	x	x	x	x	x	
Cystitis									
Icterus									
Lameness/foot problems	x	x	x	x	x	x	x	x	x
Lung infection	x	x		x	x	x	x	x	x
Mastitis	x	X	x	x	x	x	x	x	



Navel ill	x	x			x	x		x	
Umbilical hernia									
Red gut (sheep, torsion of gut)			x			x		x	
Rectal prolaps			x						
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid syndrome									
Swellsiekte									
Traumatic reticulo-pericarditis	x	x			x		x	x	x
Trauma	x				x	x		x	x
Teeth wear									
Plastic bags (ingestion)									
Downer	x	x		x	x	x		x	x
Poor condition									
Anaphylactic shock									
Immune incompetence							x		
Vestibular syndrome (middle ear infection)									
Hernia									
Deformities									
Wet carcasses at abattoir				x				x	x
Yellow carcasses at abattoir								x	

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:

<b>Metabolic 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>Acidosis</b>	<b>x</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>
<b>Displaced abomasum</b>						<b>x</b>		<b>x</b>	
<b>Ketosis (Domsiekte)</b>			<b>x</b>		<b>x</b>	<b>x</b>		<b>x</b>	
<b>Milk fever</b>				<b>x</b>	<b>x</b>			<b>x</b>	

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**

<b>Reproductive 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>Dystocia (difficult births)</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>x</b>
<b>Endometritis</b>					<b>x</b>			<b>x</b>	
<b>Metritis</b>	<b>x</b>			<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	
<b>Hydrops</b>									
<b>Poor conception</b>	<b>x</b>			<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	
<b>Retained afterbirth</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>x</b>
<b>Sheath prolaps</b>	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	<b>x</b>			
<b>Uterine prolaps</b>		<b>x</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>x</b>	

Penis injury									
Orchitis								x	

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

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

### Environmental conditions

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

### Other conditions

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

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

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. Bertus Nel

Cape Town Dr. Sophette Gers

George – Mark Chimes

Harrismith – Dr. Wim Slabber

Malalane – Drs. Van Sittert and Van Sittert

Postmasburg – Dr. Boeta van der Merwe

Stellenbosch (Elsenburg) – Dr. Annelie Cloete

Vanderbylpark- Dr. Kobus Kok

Wellington – Dr. William van Zyl

## Ostriches

### Western Cape

#### Oudtshoorn

Tapeworms	3
Bont-legged ticks	2
<i>E. coli</i>	1

Red gut	1 - On planted pastures – small grain, severe temperature fluctuations birds eating and then not
Mycoplasma	3 - Severe wind and dust – drought and seasonal change. Airsacculitis, wind cold, poor body condition. Temperature fluctuations/ dust/ cold – increased moisture, rhinitis and sinusitis, more pronounced during post cold spell.
Soil pica and rectal prolaps	3 - Adaptation to intensive feeding in cold wet weather = moisture areas in camps and soil pica
Protein, Energy deficiency, poor growth	3 - Producers are using hominy chop, but not well aware of quality issues. Resulting in feed refusal and poor growth. Still some very cold weather resulting in mortalities
Phosphate deficiency	2
Selenium deficiency	3
Cloacal prolaps	3
Rectal prolaps/ Cryptosporidium	3 - Soil pica and heat stress = cryptosporidium overgrowth
Dysbacteriosis	3 - New chick season, spill over of nutrients diarrhoea
Red gut	3 On planted pastures – small grain, severe temperature fluctuations birds eating and then not
Mycoplasmosis	3 - Severe wind and dust – drought and season change Airsacculitis, wind cold, poor body condition. Temperature fluctuations/ dust/ cold – increased moisture, rhinitis and sinusitis, more pronounced post cold spell.
Diarrhoea	3 - Intensive systems with breakdown in potable water supply/inappropriate management
Soil pica	3 - Adaptation to intensive feeding in cold wet weather = moisture areas in camps and soil pica
Cold exposure	3
Weakness	3 - Poor starters of day old chicks. Protein and energy deficiency –chicks more severely affected, insufficient time to

	feed (daylight/ high temp.), high demand for energy (cold evenings), underlying infections chronic enterotoxaemia.
Vitamin A and E deficiency	3 - High oxydative protection for feed is required, absence of adding premix and heat results in muscle lesions, paralysis.

## **Equines**

### **Mpumalanga**

#### **Lydenburg**

Nuisance flies – 3

#### **Middelburg**

Amitraz poisoning - 2

### **Gauteng**

#### **Rayton**

Liver fluke worms – 1

Ophthalmia- 1

### **Limpopo**

#### **Bela-Bela**

Protein energy malabsorbtion (PEM) – Waterbuck died

Myopathy – Rhino, treated recovered (3 weeks treatment)

Internal parasites – Sables, epg's more than 5 000

### **Eastern – Cape**

#### **Adelaide**

Suspected Theileria infection – Kudu-Brown ear ticks, especially in the thick indigenous bush veld of the Fish River Valley

#### **East London**

Lantana poisoning - 2

### **Game**

#### **Gauteng**

#### **Pretoria**

Bont ticks - 2

### **Limpopo**

#### **Modimolle**

Snares – 1 Giraffe



Wireworm – Sable calf, severe anaemia, blood transfusion, calf survived

## **North West**

### **Klerksdorp**

Botulism - 1

### **Schweizer-Reneke**

Wireworm – Sables

Brown ear-ticks - Buffalo

## **Free State**

### **Smithfield**

Rabies - Aardwolf

## **Northern Cape**

### **Upington**

Pneumonia – Buffalo north of Upington

## **Swine**

### **Kwazulu-Natal**

#### **Eshowe**

Cysticercosis – 1

Abscesses - 3

## **Monthly report on Livestock and Wildlife isolations for November 2020 from Vetdiagnostix –Microbiology Laboratory, supplied by dr. Marijke Henton**

([henton@vetdx.co.za](mailto:henton@vetdx.co.za))

November was a quiet month.

*Salmonella* predominated. South Africa has very effective vaccines available, and all cattle herds should be properly protected against especially *Salmonella* Dublin. *S. Dublin* is specific to cattle, and there are many carriers in herds. If *Salmonella* Dublin is the cause of disease, the entire herd should be considered infected, and steps should be taken to boost herd immunity. During this month, *S. Dublin* caused an abortion and calf pneumonia. *Salmonella* Typhimurium caused enteritis in a calf. The only wildlife isolate of interest was an outbreak of enteritis in a captive colony of Vervet monkeys, which yielded *S. Typhimurium* and *S. Enteritidis*. Both isolates are zoonotic.

Other cattle isolates were *Pasteurella multocida* which caused pneumonia, as well as enteritis caused by *E. coli* [8] and *Clostridium perfringens* [4]. One of the cattle isolates was positive for the toxin stx1 which causes enterohaemorrhagic enteritis in older calves, 2 weeks to 2 months of age.

Clostridial myositis was caused by *C. chauvoei* and *C. novyi*.

Enteritis in sheep and goats was caused by *E. coli* [2] and pneumonia in sheep by *Mannheimia haemolytica* and *Corynebacterium afermentans*. *C. afermentans* is an opportunist of man and animals, and it was also the cause of an abscess in a sheep.

Pneumonia in pigs was caused by *Actinobacillus pleuropneumoniae* [3], *Streptococcus porcinus* and *Trueperella pyogenes*.

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

### **Veterinary Mastitis Consultant: Bovine Industry**

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

0827849706

Diagnostic monthly report

Wide spectrum of resistant *Enterococcus faecalis* isolated

A few zoonotic organisms in dairy stalls as well as a few antibiotic microbial organisms were isolated.

No controlled or notifiable diseases to report for November 2020

### **Feedlot report received from Dr. Eben du Preez for November 2020 ([edupreez1@telkomsa.net](mailto:edupreez1@telkomsa.net))**

Condition	Comments and Specie
Intestinal roundworms	O 3
Liver fluke	B 3
Conical fluke	B 1
Parafilaria	B 3
Blue ticks	B 3
Bont ticks	B 1
Red legged-ticks	B 3, O 3
Anaplasmosis	B 3
Heartwater	B 1, O 1
Red gut	B 1

Ringworm	B 3
EBL	B 1
Warts	B 3
Enrgy deficiency	B 3
Acidosis	B 3
Vitamin A deficiency	O 3
Vitamin B 1 deficiency	B 1
Abortion	B 2
Retaine afterbirth	B 1
Joint ill	B 2
Lameness, foot rot	B 3, O 3
Laminitis	B 3
Lungs	B 3, O 3
Eye infection	B 3, O 3
Diarrhoea	B 3, O 3
Abscesses	B 3, O 2
Trauma	B 3, O 3

**Feedlot report received from Drs. Morris and Le Riche November 2020**  
**([shaun@octavoscene.co.za](mailto:shaun@octavoscene.co.za))**

Condition	Comments and Specie
Parafilaria	B 2
Anaplasmosis	B 3
Leptospirosis	B 2

Chronic bronchopneumonia	B 3 (14 cases)
Bloat	B 3 (30 plus cases)
Botulism	B 3 (12 cases)

**Monthly report for November 2020 from Dr R D Last (BVSc; M.Med.Vet(Path); MRCVS)**

**Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services**

<b>LIVESTOCK DISEASE SURVEILANCE</b>			
<b>LIVESTOCK SPECIES</b>	<b>DISEASE AGENT</b>	<b>NO. CASES</b>	<b>LOCATION</b>
BOVINE CALVES	CRYPTOSPORIDIOSIS	1	HOWICK, KZN
BOVINE CALVES	SALMONELLA DUBLIN	1	HOWICK, KZN
BOVINE CALVES	SALMONELLA DUBLIN	1	HOWICK, KZN
BOVINE CALVES	SALMONELLA DUBLIN RESPIRATORY	1	HOWICK, KZN
BOVINE ADULT COW	MALIGNANT CATTARHAL FEVER	1	POLOKWANE, LIMPOPO
BOVINE CALVES	SALMONELLA TYPHIMURIUM	1	JEFFRIES BAY, E. CAPE

<b>WILDLIFE DISEASE SURVEILANCE</b>			
<b>WILDLIFE SPECIES</b>	<b>DISEASE AGENT</b>	<b>NO. CASES</b>	<b>LOCATION</b>
AFRICAN HEDGEHOG	MYOCARDIAL MINERALIZATION	1	HOEDSPRUIT, LIMPOPO
BUFFALO CALF	DERMATOPHILUS	1	E.CAPE

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

<b>Condition</b>	<b>Comments and Specie</b>
Heartwater tick	E 2
Red-legged tick	E 1
Septicaemia	B 1, E 1
BMC (snotsiekte)	B 1

Bacterial meningitis	O 1
Equine sarcoid	E 2
Gousiekte	O 1
Hepatotoxicity	O 1
Acidosis with enteritis	O 1
Lung, (bacterial infection)	B 1
Lightning	G 3

### **Monthly report from Dr. Mark Chimes for November 2020 – Dairy Standards**

Nothing to report

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



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

25<sup>th</sup> Nov 2020

Import/Export Policy Unit Subdirectorate

**Monthly report: Faculty of Veterinary Science cases**  
**Wildlife cases sent to referring veterinarians between 29<sup>th</sup> October and 25<sup>th</sup> November**  
**2020**

Cases from State vet Skukuza or Orpen (none)

Cases imported with master permit

PMDate	Species	Final	Histo No
09-Oct-20	Lion	Polymyopathy	S2729-20
16-Oct-20	Cheetah	Chronic renal disease with acute enteritis	S2801-20
03-Nov-20	Lion	Myopathy	S2730-20
10-Nov-20	African Buffalo	Abortion	S3073-20
13-Nov-20	Impala	Suspected hepatic toxicosis	S3122-20

Kind regards,



Prof. Emily Mitchell

Fakulteit Veeartseniekunde  
Lefapha la Diseense tSa Bongakadiruiwa

## DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

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<b>Internal Parasites</b>	
<b>Roundworms in general</b>	

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	3.0 (1)		2.3 (3)	2.1 (10)	2.0 (8)	1.8 (6)	2.0 (8)	

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

Beef	1.0 (1)			2.0 (1)	1.5 (2)	1.7 (3)		1.5 (2)	
Dairy							2.0 (1)		
Sheep	2.0 (2)	3.0 (1)		2.5 (2)	2.3 (8)	2.5 (2)	1.8 (4)	2.4 (5)	
Goat	2.0 (1)					2.0 (3)	2.0 (1)	1.0 (1)	

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

##### Lydenburg, Longtom Dierekliniek

Sheep: 3, Goat: 2

#### Gauteng

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3

#### North West

##### Christiana, Christiana Dierehospitaal

Sheep: 3

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2, Sheep: 2

#### Free State

##### Bloemfontein, Dr Stephan Wessels

Sheep: 3

##### Clocolan, Clocolan Dierekliniek

Sheep: 2

##### Hoopstad, Hoopstad Dierekliniek

Sheep: 3

##### Kroonstad, Kroonstad Dierehospitaal

Beef: 1, Sheep: 1

##### Oranjeville, Grasveld Kuddegondheid

Sheep: 2

##### Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

##### Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 3

##### Warden, Warden Dierekliniek

Sheep: 2

#### Kwazulu-Natal

##### Bergville, Tugela Vet Clinic

Beef: 2, Sheep: 2, Goat: 2

##### Eshowe, Eshowe Veterinary Hospital

Sheep: 3

##### Estcourt, Estcourt Vet Clinic

Goat: 2

##### Mtubatuba, Mtubatuba Animal Clinic



Beef: 2, Goat: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

### Eastern Cape

**East London, Border Kei veterinary consultants**

Dairy: 2

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Sheep: 1, Goat: 2

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

Sheep: 2

**Uitenhage, Uitenhage Dierehospitaal**

Sheep: 2

**Witelsbos, Witelsbos Veterinary Consulting Rooms**

Sheep: 2

### Western Cape

**Caledon, Caledon Dierekliniek**

Beef: 2, Sheep: 2

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 3

**Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 3

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1, Sheep: 2, Goat: 1

## Resistant Round Worms



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

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

### North West

**Christiana, Christiana Dierehospitaal**

Sheep: 1

### Free State

**Bloemfontein, Dr Stephan Wessels**

Sheep: 2

**Hoopstad, Hoopstad Dierekliniek**

Sheep: 3

**Reitz, Riemland Dierehospitaal**

Sheep: 1

**Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 1

**Villiers, Wilgepoort Veedienste**

Sheep: 3

#### **Kwazulu-Natal**

**Eshowe, Eshowe Veterinary Hospital**

Sheep: 2

#### **Eastern Cape**

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

Sheep: 2

#### **Western Cape**

**Malmesbury, Malmesbury Dierehospitaal**

Sheep: 1

Wireworm									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)	2.6 (5)	2.0 (2)	2.0 (1)	2.4 (11)	2.3 (3)	1.5 (2)	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

Dairy		3.0 (1)							
Sheep	3.0 (2)	2.3 (3)	2.0 (2)	2.0 (1)	2.4 (11)	2.0 (1)	1.0 (1)	2.5 (4)	2.0 (2)
Goat	3.0 (1)	3.0 (1)				2.5 (2)	2.0 (1)		

#### **Mpumalanga**

**Lydenburg, Longtom Dierekliniek**

Sheep: 3, Goat: 3

**Standerton, Econovet**

Sheep: 3

#### **Gauteng**

**Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 2

**Hammanskraal, Themba Animal Clinic**

Sheep: 2, Goat: 3

**Nigel, Nigel Diere Spreekkamer**

Dairy: 3

**Nigel, Welgelegen Dierekliniek**

Sheep: 3

#### **Limpopo**

**Makhado, Blouberg Dierekliniek**

Sheep: 2

8 cases

**Polokwane, Pietersburg Veterinary Clinic**

Sheep: 2

#### **North West**

**Potchefstroom, Morvet**

Sheep: 2

#### **Free State**

**Bethlehem, Bethlehem Animal Hospital**

Sheep: 3

**Bloemfontein, University Free State**

Sheep: 3

**Clocolan, Clocolan Dierekliniek**

Sheep: 2

**Excelsior, Weltevrede Dierekliniek**

Sheep: 3

**Hoopstad, Hoopstad Dierekliniek**

Sheep: 3

**Oranjeville, Grasveld Kuddegeseondheid**

Sheep: 2

**Reitz, Riemland Dierehospitaal**

Sheep: 2

**Senekal, Senekal Dierekliniek**

Sheep: 1

**Villiers, Wilgepoort Veedienste**

Sheep: 3

**Warden, Warden Dierekliniek**

Sheep: 2

**Winburg, Winburg Dierekliniek**

Sheep: 2

**Kwazulu-Natal****Camperdown, Camperdown Vet Clinic**

Sheep: 2, Goat: 2

**Estcourt, Estcourt Vet Clinic**

Goat: 3

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

Sheep: 1, Goat: 2

**Western Cape****George, George Animal Hospital**

Sheep: 3

**Malmesbury, Malmesbury Dierehospitaal**

Sheep: 2

**Riversdale, Riversdal Dierekliniek**

Sheep: 2

**Vredenburg, Vredenburg Dierehospitaal**

Sheep: 3

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

Sheep: 1

**Kuruman, Kuruman Dierekliniek**

Sheep: 3

**Brown stomach-worm**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**Average****2.5 (2)**

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

**Sheep****2.5 (2)****Western Cape****Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 3

**Malmesbury, Malmesbury Dierehospitaal**

Sheep: 2

**Eye worm ( *Thelazia rhodesii* )**

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				2.0 (1)	2.0 (1)				
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**North West****Vryburg, Vryburg Dierehospitaal**

Beef: 2

**Free State****Winburg, Winburg Direkliniek**

Beef: 2

**Tape Worms**

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

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

Beef	1.0 (1)				2.0 (1)				
Dairy							2.0 (1)		
Sheep	1.0 (1)	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (5)				
Goat						2.0 (1)	1.0 (1)		

**Mpumalanga****Balfour, Balfour Direkliniek**

Beef: 1, Sheep: 1

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

Sheep: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 1

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

Sheep: 2

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

Sheep: 1

#### Free State

**Bethlehem, Bethlehem Animal Hospital**

Sheep: 2

**Bloemfontein, Dr Stephan Wessels**

Sheep: 2

**Oranjeville, Grasveld Kuddegeseondheid**

Sheep: 2

**Reitz, Riemland Dierehospitaal**

Sheep: 2

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

#### Kwazulu-Natal

**Pietermaritzburg, Veterinary House Hospital**

Goat: 2

#### Eastern Cape

**East London, Border Kei veterinary consultants**

Dairy: 2

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 1

### Parafilaria



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.5 (2)	2.5 (2)		1.5 (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			1.5 (2)	2.5 (2)		1.5 (2)		2.0 (1)	2.0 (1)
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#### Limpopo

**Bela-Bela, Warmbad Dierekliniek**

Beef: 2

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

#### North West

**Brits, Zodiac Dierekliniek**

Beef: 2

**Stella, Stella Dierekliniek**

Beef: 3

#### Kwazulu-Natal

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

#### Western Cape

**Paarl, Paarl Dierehospitaal;**

Beef: 2

#### Northern Cape

**Kimberley, Kimberley Dierekliniek**

Beef: 2

Seen at abattoir

Liver fluke									<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)	2.3 (6)	3.0 (1)		1.0 (3)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef		2.0 (1)		1.0 (1)	2.3 (4)	3.0 (1)		1.0 (2)	
Dairy								1.0 (1)	
Sheep					2.5 (2)				
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 2									
<b>North West</b>									
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>									
Beef: 1									
<b>Free State</b>									
<b>Bethlehem, Bethlehem Animal Hospital</b>									
Beef: 2									
<b>Ficksburg, Oosvrystaat Diere Produkte</b>									
Beef: 2, Sheep: 2									
<b>Reitz, Riemland Dierehospitaal</b>									
Beef: 2									
<b>Villiers, Wilgepoort Veedienste</b>									
Beef: 3, Sheep: 3									
<b>Kwazulu-Natal</b>									
<b>Underberg, Underberg Veterinary Surgery</b>									
Beef: 3									
<b>Western Cape</b>									
<b>Malmesbury, Dr Otto Kriek</b>									
Beef: 1									
<b>Plettenberg Bay, Plettenberg Bay A Reitz</b>									
Dairy: 1									
One cow died on PM liver fluke									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Beef: 1									
Conical Flukes									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)				2.0 (5)		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>Beef</b>	2.0 (3)		2.0 (2)		1.0 (1)	
<b>Dairy</b>					1.0 (1)	
<b>Sheep</b>			2.0 (3)			

#### **Mpumalanga**

##### **Ermelo, Môregloed Veterinere Spreekkamer**

Beef: 1

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

Beef: 2

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

Beef: 3

#### **Free State**

##### **Bethlehem, Bethlehem Animal Hospital**

Beef: 2

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

Sheep: 3

##### **Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

##### **Warden, Warden Dierekliniek**

Sheep: 1

#### **Eastern Cape**

##### **Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

##### **East London, Border Kei veterinary consultants**

Dairy: 1

### **Cysticercosis**



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

#### **North West**

##### **Vryburg, Vryburg Dierehospitaal**

Beef: 2

#### **Eastern Cape**

##### **East London, Border Kei veterinary consultants**

Beef: 1

#### **Western Cape**

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

Sheep: 2

### **External Parasites**

Blue ticks									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (7)	2.7 (3)	1.5 (4)	2.8 (5)	2.6 (19)	2.6 (7)	2.2 (5)	3.0 (2)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.5 (6)	2.7 (3)	1.7 (3)	2.8 (5)	2.6 (12)	2.6 (7)	2.0 (3)	3.0 (1)	
Dairy					2.5 (2)		3.0 (1)	3.0 (1)	
Sheep	2.0 (1)		1.0 (1)		2.8 (4)		2.0 (1)		
Goat					3.0 (1)				
Mpumalanga									
Balfour, Balfour Direkliniek									
Beef: 2, Sheep: 2									
Bethal, Bethal Direkliniek									
Beef: 2									
Lydenburg, Longtom Direkliniek									
Beef: 3									
Lydenburg, Lydenburg Dieresprekkamer									
Beef: 3									
Nelspruit, Nelspruit Animal Hospital									
Beef: 2									
Standerton, Econovet									
Beef: 3									
Gauteng									
Hammanskraal, Themba Animal Clinic									
Beef: 3									
Krugersdorp, Veearts Netwerk									
Beef: 2									
Nigel, Nigel Diere Spreekkamer									
Beef: 3									
Limpopo									
Mokopane, Bundu Veterinary Services									
Beef: 3									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1, Sheep: 1									
Tzaneen, ZZ2 Farm Practice									
Beef: 1									
North West									
Klerksdorp, Klerksdorp Direhospitaal									
Beef: 3									
Leeudoringstad, Leeudoringstad Direkliniek									
Beef: 3									
Potchefstroom, Morvet									



Beef: 2

**Schweizer-Reneke, Buffeldoorn Direkliniek SR**

Beef: 3

**Vryburg, Vryburg Direhospitaal**

Beef: 3

**Free State**

**Bethlehem, Bethlehem Animal Hospital**

Beef: 2

**Dewetsdorp, Platkop Direkliniek**

Beef: 3, Sheep: 3

**Excelsior, Weltevrede Direkliniek**

Beef: 3

**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2, Dairy: 2, Sheep: 2

**Frankfort, Frankfort Direkliniek**

Beef: 3

**Hoopstad, Hoopstad Direkliniek**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 1

**Viljoenskroon, Viljoenskroon Direkliniek**

Beef: 3

**Villiers, Wilgepoort Veedienste**

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

**Vrede, Vrede Direhospitaal**

Beef: 3

Tick burden on the increase - suspect red water and anaplasmosis cases to increase

**Warden, Warden Direkliniek**

Beef: 2

**Winburg, Winburg Direkliniek**

Beef: 3

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2

**Dundee, Endumeni Herd health**

Beef: 3

**Eshowe, Eshowe Veterinary Hospital**

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

**Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

**Aliwal North, Hertzogbrug Direkliniek**

Beef: 2, Sheep: 2

**East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

**Western Cape**

**George, George Animal Hospital**

Beef: 3

**George, George Herd Heath Consult**

Dairy: 3

## Resistant blue Ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.7 (3)	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 (2)	1.7 (3)			
Sheep					2.0 (1)				

### Free State

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

### Kwazulu-Natal

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

## Heartwater (Bont) ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	2.0 (5)	2.5 (4)	3.0 (1)		2.0 (12)	3.0 (2)		

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

Beef	2.0 (3)	2.0 (2)	2.7 (3)	3.0 (1)		2.1 (7)	3.0 (1)		
Dairy							3.0 (1)		
Sheep		2.0 (2)	2.0 (1)			1.5 (2)			
Goat	2.0 (1)	2.0 (1)				2.0 (3)			

### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3, Goat: 2

## Gauteng

### Hammanskraal, Themba Animal Clinic

Beef: 2, Sheep: 2, Goat: 2

### Pretoria, Anima Veterinary Consulting Rooms

Beef: 2, Sheep: 2

## Limpopo

## Makhado, Blouberg Dierekliniek

Beef: 3

12 cases

## Mokopane, Bundu Veterinary Services

Beef: 3

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2, Sheep: 2

## North West

## Stella, Stella Dierekliniek

Beef: 3

## Kwazulu-Natal

### Bergville, Bergville Veterinary Clinic

Beef: 3

### Bergville, Tugela Vet Clinic

Beef: 2, Sheep: 2, Goat: 2

## Dundee, Endumeni Herd health

Beef: 3

### Eshowe, Eshowe Veterinary Hospital

Beef: 2

### Mtubatuba, Mtubatuba Animal Clinic

Beef: 3, Goat: 3

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

### Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

## Eastern Cape

### East London, Border Kei veterinary consultants

Beef: 3, Dairy: 3

## Brown ear-ticks

PROVINCE									
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)	3.0 (1)	2.0 (2)	2.5 (2)			

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

Beef	2.0 (1)	2.0 (1)	3.0 (1)	3.0 (1)	2.0 (2)	2.5 (2)
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## Mpumalanga

**Standerton, Econovet**

Beef: 2

## Gauteng

**Bronkhorstspruit, Kerkstraat Dierkliniek**

Beef: 2

## Limpopo

**Mokopane, Bundu Veterinary Services**

Beef: 3

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

Beef: 3

**Free State****Villiers, Wilgepoort Veedienste**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Bont-legged ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (4)	2.0 (2)	3.0 (1)	3.0 (6)	2.7 (23)	2.3 (3)	3.0 (5)	3.0 (1)	3.0 (3)

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

Beef	2.3 (4)	2.0 (2)	3.0 (1)	3.0 (5)	2.6 (14)	2.3 (3)	3.0 (2)	3.0 (1)	3.0 (1)
Dairy					2.5 (2)		3.0 (1)		
Sheep				3.0 (1)	2.8 (6)		3.0 (1)		3.0 (1)
Goat					3.0 (1)		3.0 (1)		3.0 (1)

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

Beef: 2

**Ermelo, Môregloed Veterinêre Spreekkamer**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

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

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 2

**Limpopo****Mokopane, Bundu Veterinary Services**

Beef: 3

**North West**

**Christiana, Christiana Dierehospitaal**

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 3

**Schweizer-Reneke, Buffeldoorn Direkliniek SR**

Beef: 3

**Stella, Stella Direkliniek**

Beef: 3

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

**Free State****Bethlehem, Bethlehem Animal Hospital**

Beef: 3

**Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

**Clocolan, Clocolan Direkliniek**

Beef: 2

**Excelsior, Weltevrede Direkliniek**

Beef: 3

**Ficksburg, Oosvrystaat Dier Produkte**

Beef: 2, Dairy: 2, Sheep: 2

**Frankfort, Frankfort Direkliniek**

Beef: 3

**Hoopstad, Hoopstad Direkliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 2

**Senekal, Senekal Direkliniek**

Beef: 2

**Viljoenskroon, Viljoenskroon Direkliniek**

Beef: 3, Sheep: 3

**Villiers, Wilgepoort Veedienste**

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

**Warden, Warden Direkliniek**

Beef: 2

**Winburg, Winburg Direkliniek**

Beef: 3

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

Beef: 3

**Underberg, Underberg Veterinary Surgery**

Beef: 1

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

**Steynsburg, Steynsburg Dierehospitaal**

Beef: 3, Sheep: 3, Goat: 3

**Western Cape****Malmesbury, Groenkloof Direkliniek**

Beef: 3

Riebeeck kasteel at mountain

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Beef: 3, Sheep: 3, Goat: 3

**Red-legged ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.3 (4)		3.0 (1)	3.0 (2)	2.4 (7)	3.0 (1)	3.0 (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>	2.3 (3)		3.0 (1)	3.0 (2)	2.4 (5)	3.0 (1)	3.0 (1)	3.0 (1)	
<b>Dairy</b>							3.0 (1)		
<b>Sheep</b>					2.5 (2)				
<b>Goat</b>	2.0 (1)								

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

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2, Goat: 2

**Limpopo****Mokopane, Bundu Veterinary Services**

Beef: 3

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

Beef: 3

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 3

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

Beef: 2

**Excelsior, Weltevrede Dierekliniek**

Beef: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 2

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

**Kwazulu-Natal****Underberg, Underberg Veterinary Surgery**

Beef: 3

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

**Western Cape****Malmesbury, Groenkloof Dierekliniek**

Beef: 3

**Paralysis ticks**

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

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)	1.3 (3)				
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**Mpumalanga****Lydenburg, Longtom Dierekliniek**

Sheep: 1

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

Sheep: 1

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

Sheep: 1

**Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 2

**Warden, Warden Dierekliniek**

Sheep: 1

**Biting lice (red lice)**

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

**North West****Vryburg, Vryburg Dierehospitaal**

Beef: 3

**Free State****Bethlehem, Bethlehem Animal Hospital**

Sheep: 2

**Villiers, Wilgepoort Veedienste**

Sheep: 2

**Kwazulu-Natal**

**Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2

**Western Cape****Malmesbury, Malmesbury Dierehospitaal**

Sheep: 2

**Sucking lice (blue lice)**

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

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

**Sheep**2.0  
(1)**Goat**1.0  
(1)**Free State****Kroonstad, Kroonstad Dierehospitaal**

Goat: 1

**Villiers, Wilgepoort Veedienste**

Sheep: 2

**Scab mites**

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

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

**Sheep**1.5  
(2)**Free State****Bloemfontein, Dr Stephan Wessels**

Sheep: 1

**Villiers, Wilgepoort Veedienste**

Sheep: 2

**Mange Mites**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**Average**

2.0 (4)

2.0 (1)

2.0  
(3)



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

<b>Beef</b>	2.0 (2)		2.0 (1)	2.0 (3)
<b>Sheep</b>	2.0 (1)			
<b>Goat</b>	2.0 (1)			

#### **Mpumalanga**

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

Beef: 2

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

Beef: 2

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

Sheep: 2

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

Goat: 2

#### **North West**

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

Beef: 2

Sarcoptes mites

#### **Free State**

##### **Ficksburg, Oosvrystaat Dier Produkte**

Beef: 2

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

Beef: 2

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

Beef: 2

#### **Nuisance Flies**



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.4 (7)	3.0 (1)		3.0 (2)	2.9 (14)	2.7 (6)	3.0 (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

<b>Beef</b>	2.5 (4)			3.0 (1)	2.8 (6)	2.7 (3)	3.0 (1)	2.0 (2)	
<b>Dairy</b>	3.0 (1)	3.0 (1)			3.0 (3)			2.0 (2)	
<b>Sheep</b>	1.0 (1)			3.0 (1)	3.0 (5)	3.0 (1)		1.0 (1)	
<b>Goat</b>	3.0 (1)					2.5 (2)			

#### **Mpumalanga**

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

Beef: 1, Sheep: 1

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

Beef: 3, Dairy: 3

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

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)		2.3 (3)	2.0 (1)	2.0 (1)
<b>Dairy</b>				2.0 (1)		
<b>Sheep</b>	1.5 (2)			2.0 (5)	2.0 (1)	
<b>Goat</b>	1.0 (1)					

## Mpumalanga

**Balfour, Balfour Dierkliniek**

Beef: 1, Sheep: 1, Goat: 1

## Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

## Gauteng

### Bronkhorstspruit, Kerkstraat Dierekliniek

Beef: 2

## Free State

### Bethlehem, Union Street Animal Consulting Rooms

Sheep: 2

**Bloemfontein, University Free State**

Sheep: 1

## Ficksburg, Oosvrystaat Diere Produkte

Beef: 2, Dairy: 2, Sheep: 2

## Hoopstad, Hoopstad Dierekliniek

Sheep: 3

## Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

## Villiers, Wilgepoort Veedienste

Beef: 2

## Winburg, Winburg Dierekliniek

Beef: 3

## Kwazulu-Natal

### Eshowe, Eshowe Veterinary Hospital

Beef: 2, Sheep: 2

## Eastern Cape

### East London, Border Kei veterinary consultants

Beef: 2

## Screw-worm



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

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

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

## Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2

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

Sheep: 1

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

Sheep: 2

**Nasal bot larvae**

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)		2.0 (1)	2.2 (5)			2.0 (1)	

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

<b>Sheep</b>	2.0 (1)	2.0 (1)		2.0 (1)	2.2 (5)			2.0 (1)	
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**Mpumalanga****Lydenburg, Longtom Dierekliniek**

Sheep: 2

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

Sheep: 2

**North West****Potchefstroom, Morvet**

Sheep: 2

**Free State****Excelsior, Weltevrede Dierekliniek**

Sheep: 2

**Hoopstad, Hoopstad Dierekliniek**

Sheep: 3

**Oranjeville, Grasveld Kuddegondheid**

Sheep: 2

**Reitz, Riemland Dierehospitaal**

Sheep: 2

**Villiers, Wilgepoort Veedienste**

Sheep: 2

**Western Cape****Malmesbury, Malmesbury Dierehospitaal**

Sheep: 2

**Midges**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.7 (3)	3.0 (1)		1.0 (1)	2.7 (7)	3.0 (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>	1.5 (2)		1.0 (1)	2.7 (3)	3.0 (1)		2.3 (3)	
<b>Dairy</b>				3.0 (1)			3.0 (1)	
<b>Sheep</b>	2.0 (1)	3.0 (1)		2.5 (2)	3.0 (1)			
<b>Goat</b>				3.0 (1)				

#### **Mpumalanga**

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

Beef: 1

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

Beef: 2, Sheep: 2

#### **Gauteng**

##### **Nigel, Nigel Diere Spreekkamer**

Sheep: 3

#### **North West**

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

Beef: 1

#### **Free State**

##### **Bethlehem, Bethlehem Animal Hospital**

Beef: 3

##### **Villiers, Wilgepoort Veedienste**

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

##### **Warden, Warden Dierekliniek**

Beef: 2, Sheep: 2

#### **Kwazulu-Natal**

##### **Vryheid, Vryheid Privaat Veeartse**

Beef: 3, Sheep: 3

#### **Western Cape**

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

Beef: 3

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

Beef: 3, Dairy: 3

##### **Oudtshoorn, Ostrimed**

Beef: 1

#### **Mosquitoes**

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)	2.0 (7)			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>				3.0 (1)	2.0 (4)				
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<b>Dairy</b>			2.0 (1)		
<b>Sheep</b>	2.0 (1)		2.0 (1)		3.0 (1)
<b>Goat</b>			2.0 (1)		

#### Gauteng

##### Nigel, Nigel Diere Spreekkamer

Sheep: 2

#### North West

##### Vryburg, Vryburg Dierehospitaal

Beef: 3

#### Free State

##### Memel, Memel Veterinary Clinic

Beef: 2

##### Villiers, Wilgepoort Veedienste

Beef: 2, Dairy: 2, Sheep: 2, Goat: 2

##### Warden, Warden Dierekliniek

Beef: 2

##### Winburg, Winburg Dierekliniek

Beef: 2

#### Western Cape

##### George, George Animal Hospital

Sheep: 3

### Other [^](#)

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>				1.0 (1)					
<b>Goat</b>						2.0 (1)			

#### North West

##### Ottosdal, Ottosdal dierekliniek

Beef: 1

One calf positive with *Giardia*

#### Kwazulu-Natal

##### Camperdown, Camperdown Vet Clinic

Goat: 2

Bee stings

### Itch mite [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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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)				
Free State									
Villiers, Wilgepoort Veedienste									
Sheep: 3									
Tick-borne Diseases									
African red water									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)	2.5 (2)	2.0 (1)	1.8 (4)	2.5 (2)	1.7 (10)	3.0 (2)	2.3 (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	2.3 (3)	2.5 (2)	2.0 (1)	1.8 (4)	2.5 (2)	1.7 (9)	3.0 (1)	2.0 (1)	
Dairy						2.0 (1)	3.0 (1)	2.5 (2)	
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Beef: 2									
Standerton, Econovet									
Beef: 3									
Volkstrust, Grasslands vet clinic									
Beef: 2									
Three animals									
Gauteng									
Hammanskraal, Themba Animal Clinic									
Beef: 2									
Krugersdorp, Veearts Netwerk									
Beef: 3									
Limpopo									
Makhado, Blouberg Dierekliniek									
Beef: 2									
Four cases									
North West									
Bloemhof, Bloemhof Dierekliniek									
Beef: 3									
Weaners									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 1									
Potchefstroom, Morvet									
Beef: 2									





Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

**Middelburg, Neil Fourie Veeartsenydienste**

Beef: 3

**Piet Retief, Pets Vet Hospital**

Beef: 2

**Standerton, Econovet**

Beef: 3

**Gauteng**

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

**Nigel, Nigel Diere Spreekkamer**

Beef: 2

**Limpopo**

**Bela-Bela, Warmbad Dierekliniek**

Beef: 3

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

**North West**

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 1

**Potchefstroom, Morvet**

Beef: 2

**Free State**

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Memel, Memel Veterinary Clinic**

Beef: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2

**Dundee, Endumeni Herd health**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 1

**Eastern Cape**

**Alexandria, Riverview Trading Vet Consulting Services**

Beef: 2

Two different farms

**East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

**Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

**Western Cape**

**George, George Herd Heath Consult**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Swellendam, Swellendam Dierehospitaal**

Beef: 1

**Anaplasmosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.5 (4)		1.0 (1)	2.3 (3)	2.1 (10)	2.3 (4)	2.0 (2)	2.0 (5)	

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

<b>Beef</b>	1.5 (4)		1.0 (1)	2.3 (3)	2.2 (9)	2.0 (3)	2.0 (1)		
<b>Dairy</b>					1.0 (1)	3.0 (1)	2.0 (1)	2.0 (5)	

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

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Piet Retief, Pets Vet Hospital**

Beef: 2

**Standerton, Econovet**

Beef: 2

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

Beef: 1

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

Beef: 3

**Vryburg, Molopo Dierekliniek**

Beef: 2

**Vryburg, Vryburg Dierehospitaal**

Beef: 2

**Free State****Bethlehem, Bethlehem Animal Hospital**

Beef: 3

**Bloemfontein, Dr Stephan Wessels**

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 2

**Excelsior, Weltevrede Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Senekal, Senekal Dierekliniek**

Dairy: 1

**Villiers, Wilgepoort Veedienste**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Dairy: 3

Dairy herds on pasture, in immunocompromised cows

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 2, Dairy: 2

**Western Cape****Darling, Tygerberg Dierehospitaal Darling**

Dairy: 3

**George, George Herd Heath Consult**

Dairy: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Heartwater**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (6)	2.1 (7)	2.0 (5)	2.2 (5)		1.8 (17)	2.0 (5)		

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

Beef	2.0 (3)	2.5 (2)	2.0 (3)	2.3 (3)		1.9 (9)	2.0 (3)		
Dairy		1.0 (1)					3.0 (1)		
Sheep	2.0 (1)	2.5 (2)	2.0 (2)	2.0 (2)		1.5 (2)			
Goat	1.5 (2)	2.0 (2)				1.8 (6)	1.0 (1)		

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

Beef: 2, Sheep: 2, Goat: 2

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2, Goat: 1

**Piet Retief, Pets Vet Hospital**

Beef: 2

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

Dairy: 1

**Hammanskraal, Themba Animal Clinic**

Beef: 3, Sheep: 3, Goat: 3

**Muldersdrift, Muldersdrift Animal Hospital**

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Goat: 1

**Limpopo**

**Bela-Bela, Warmbad Dierekliniek**

Sheep: 2

**Mokopane, Bundu Veterinary Services**

Beef: 2

Four

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2, Sheep: 2

**Tzaneen, ZZ2 Farm Practice**

Beef: 2

**North West**

**Brits, Brits Dierekliniek**

Beef: 2

**Brits, Zodiac Dierekliniek**

Beef: 2, Sheep: 2

**Rustenburg, Bergbos Dierekliniek**

Beef: 3, Sheep: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 1, Goat: 1

**Camperdown, Camperdown Vet Clinic**

Beef: 1, Sheep: 1, Goat: 1

**Dundee, Endumeni Herd health**

Beef: 2

**Eshowe, Eshowe Veterinary Hospital**

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Beef: 2, Goat: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 3, Goat: 3

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2, Goat: 2

**Pongola, Pongola Animal Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Eastern Cape**

**Alexandria, Riverview Trading Vet Consulting Services**

Beef: 2

**East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

**Uitenhage, Uitenhage Dierehospitaal**

Beef: 1, Goat: 1

**Sweating Sickness**



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 (1)	2.0 (2)	1.0 (1)	3.0 (1)	2.0 (4)
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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)	2.0 (2)	1.0 (1)	3.0 (1)	2.0 (4)
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#### **Mpumalanga**

##### **Middelburg , Middelburg Dierehospitaal**

Beef: 2

#### **Gauteng**

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

Beef: 2

##### **Nigel, Welgelegen Dierekliniek**

Beef: 2

#### **Limpopo**

##### **Tzaneen, ZZ2 Farm Practice**

Beef: 1

#### **North West**

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

Beef: 3

#### **Free State**

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

Beef: 2

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

Beef: 2

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

Beef: 2

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

Beef: 2

### **Insect Transmittable Diseases**

#### **Lumpy skin disease**



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)			1.7 (3)	1.0 (2)	1.0 (1)	2.1 (8)	

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)	1.0 (1)			1.7 (3)	1.0 (2)		2.3 (4)	
<b>Dairy</b>							1.0 (1)	2.0 (4)	

#### **Mpumalanga**

##### **Volksrust, Grasslands vet clinic**

Beef: 2

Three cattle

#### **Gauteng**

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

**Free State****Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

**Villiers, Wilgepoort Veedienste**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

**Kwazulu-Natal****Newcastle, Ncanduvet Newcastle**

Beef: 1

**Pongola, Pongola Animal Clinic**

Beef: 1

**Eastern Cape****East London, Border Kei veterinary consultants**

Dairy: 1

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

Beef: 2, Dairy: 2

**Caledon, Overberg Veterinary Hospital**

Beef: 2, Dairy: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Swellendam, Swellendam Dierhospitaal**

Beef: 2

**Worcester, Durban Straat Dierekliniek Worcester**

Beef: 3

**Three-day-stiffsickness**

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

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

Beef	3.0 (1)				2.0 (2)	1.0 (1)			
Dairy								2.0 (1)	

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

Beef: 3

**Free State****Reitz, Riemland Dierhospitaal**

Beef: 2

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

**Kwazulu-Natal**

**Pongola, Pongola Animal Clinic**

Beef: 1

Suspected

**Western Cape****Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Blue tongue**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.5 (2)					3.0 (1)	2.7 (3)	

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

<b>Sheep</b>		1.5 (2)					3.0 (1)	2.7 (3)	
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**Gauteng****Hammanskraal, Themba Animal Clinic**

Sheep: 1

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Sheep: 3

Two flocks affected, not vaccinated

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

Sheep: 3

**Beaufort West, Beaufort West State Vet**

Sheep: 2

Area receiving some rain.

**Riversdale, Riversdal Dierekliniek**

Sheep: 3

**Nagana**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>						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>						3.0 (1)			
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**Kwazulu-Natal****Mtubatuba, Mtubatuba Animal Clinic**

Beef: 3

**Venereal Diseases****Trichomonosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)			2.7 (10)	2.2 (13)	1.0 (2)	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	2.2 (5)			2.7 (10)	2.2 (13)	1.0 (2)	3.0 (1)		2.0 (1)
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#### Mpumalanga

##### Bethal, Bethal Dierekliniek

Beef: 2

##### Middelburg, Neil Fourie Veeartsenydienste

Beef: 2

##### Piet Retief, Pets Vet Hospital

Beef: 1

##### Standerton, Econovet

Beef: 3

##### Volksrust, Grasslands vet clinic

Beef: 3

Three herds 22/56; 9/15; 5/37. Seven out 365 cows with pyometra due to trichomoniasis

#### North West

##### Bloemhof, Bloemhof Dierekliniek

Beef: 3

15 out of 35 bulls tested positive

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

##### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

##### Potchefstroom, Bult Dierekliniek

Beef: 2

##### Potchefstroom, Morvet

Beef: 3

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

Beef: 2

##### Stella, Stella Dierekliniek

Beef: 3

##### Vryburg, Molopo Dierekliniek

Beef: 3

##### Vryburg, Vryburg Dierehospitaal

Beef: 3

##### Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

3 positive herds in Naledi District with 8 positive animals. 1 positive herd in Molopo District with 12 positive animals. A total of 28 herds and 261 animals were tested.

#### Free State

##### Bethlehem, Bethlehem Animal Hospital

Beef: 3

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

Beef: 1

##### Bloemfontein, Dr Stephan Wessels

Beef: 2



Beef: 1

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

Beef: 1

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 2

**Potchefstroom, Morvet**

Beef: 2

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 2

**Stella, Stella Dierekliniek**

Beef: 3

**Vryburg, Molopo Dierekliniek**

Beef: 2

**Vryburg, Vryburg Dierehospitaal**

Beef: 2

**Vryburg, Vryburg Prov Vet Laboratory**

Beef: 3

1 positive herd in Naledi District with 1 positive animal. 1 positive herd in Molopo District with 3 positive animals. 1 positive herd in Mafikeng District with 4 positive animals. A total of 28 herds and 261 animals were tested.

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

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 3

**Excelsior, Weltevrede Dierekliniek**

Beef: 2

**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2

**Hoopstad, Kameeldoring Dierekliniek**

Beef: 1

**Villiers, Wilgepoort Veedienste**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

**Kwazulu-Natal****Newcastle, Ncanduvet Newcastle**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Dairy: 1

A dairy herd with catch-up bulls

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 1

**Bacterial Disease (other)****Anthrax**

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)

#### North West

##### Vryburg, Vryburg Dierehospitaal

Beef: 1

Waiting for conformation – lab report negative!!!

#### Blackquarter

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (5)	1.5 (2)	1.5 (2)	2.0 (2)	2.0 (4)	1.0 (3)	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	1.5 (4)	2.0 (1)	1.5 (2)	2.0 (2)	2.0 (4)	1.0 (3)	2.0 (1)	1.0 (1)	
Sheep	2.0 (1)								
Goat		1.0 (1)							

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 1

##### Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 1

##### Grootvlei, Grootvlei Dierekliniek

Beef: 1

##### Piet Retief, Pets Vet Hospital

Beef: 3

##### Volksrust, Grasslands vet clinic

Sheep: 2

Five sheep

#### Gauteng

##### Hammanskraal, Themba Animal Clinic

Beef: 2

##### Rayton, Rayton Dierekliniek

Goat: 1

#### Limpopo

##### Makhado, Blouberg Dierekliniek

Beef: 2

3 cases

##### Polokwane, Pietersburg Veterinary Clinic

Beef: 1

#### North West

##### Potchefstroom, Morvet

Beef: 2

##### Rustenburg, Bergbos Dierekliniek

Beef: 2

#### Free State

##### Bethlehem, Bethlehem Animal Hospital



<b>Sheep</b>	1.0 (2)	1.5 (2)	2.0 (1)	1.5 (2)	2.4 (5)		3.0 (1)	1.5 (2)	2.0 (1)
<b>Goat</b>						1.0 (1)	1.0 (1)		
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Sheep: 1									
<b>Lydenburg, Lydenburg Dieresprekkamer</b>									
Sheep: 1									
<b>Gauteng</b>									
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>									
Sheep: 1									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Sheep: 2									
<b>Limpopo</b>									
<b>Bela-Bela, Warmbad Dierekliniek</b>									
Sheep: 2									
<b>North West</b>									
<b>Brits, Zodiac Dierekliniek</b>									
Sheep: 2									
<b>Christiana, Christiana Dierehospitaal</b>									
Sheep: 1									
<b>Free State</b>									
<b>Bloemfontein, Dr Stephan Wessels</b>									
Sheep: 3									
<b>Clocolan, Clocolan Dierekliniek</b>									
Sheep: 2									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Sheep: 3									
<b>Warden, Warden Dierekliniek</b>									
Sheep: 1									
<b>Wesselsbron, Wesselsbron Dierekliniek</b>									
Sheep: 3									
Feedlot									
<b>Kwazulu-Natal</b>									
<b>Bergville, Tugela Vet Clinic</b>									
Goat: 1									
<b>Eastern Cape</b>									
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>									
Goat: 1									
<b>Steynsburg, Steynsburg Dierehospitaal</b>									
Sheep: 3									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Sheep: 2									
<b>Oudtshoorn, Ostrimed</b>									
Sheep: 1									
<b>Northern Cape</b>									
<b>Kuruman, Kuruman Dierekliniek</b>									
Sheep: 2									
<b>Swelled head disease</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>		1.3 (3)	1.0 (1)	2.0 (1)	1.3 (3)		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>		2.0 (1)	1.0 (1)	2.0 (1)	1.5 (2)		1.0 (1)
<b>Sheep</b>		1.0 (2)			1.0 (1)		

#### Gauteng

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 1

##### Hammanskraal, Themba Animal Clinic

Sheep: 1

#### Limpopo

##### Mokopane, Bundu Veterinary Services

Beef: 1

#### North West

##### Rustenburg, Bergbos Dierekliniek

Beef: 2

#### Free State

##### Reitz, Riemland Dierehospitaal

Beef: 2

##### Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

##### Villiers, Wilgepoort Veedienste

Beef: 1

#### Eastern Cape

##### East London, Border Kei veterinary consultants

Beef: 1

### Red gut (cattle)



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

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

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

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 1

##### Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 2

#### **Gauteng**

**Bapsfontein, Bapsfontein Dierehospitaal**

Dairy: 1

**Nigel, Nigel Diere Spreekkamer**

Dairy: 2

#### **North West**

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 1

Died in veld, gas filled with red gut

#### **Free State**

**Ficksburg, Oosvrystaat Diere Produkte**

Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 1

**Senekal, Senekal Dierekliniek**

Sheep: 1

**Villiers, Wilgepoort Veedienste**

Beef: 2

#### **Kwazulu-Natal**

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 1

#### **Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

**East London, Border Kei veterinary consultants**

Beef: 1

#### **Western Cape**

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 3

### **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)	2.0 (1)	1.6 (5)			2.0 (3)	3.0 (1)

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

Sheep		2.0 (1)	2.0 (1)		1.6 (5)			2.0 (2)	3.0 (1)
Goat				2.0 (1)				2.0 (1)	

#### **Gauteng**

**Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 2

#### **Limpopo**

**Makhado, Blouberg Dierekliniek**

Sheep: 2

3 cases

<b>North West</b>
<b>Vryburg, Molopo Dierekliniek</b>
Goat: 2
<b>Free State</b>
<b>Bethlehem, Bethlehem Animal Hospital</b>
Sheep: 2
<b>Bloemfontein, Dr Stephan Wessels</b>
Sheep: 1
<b>Reitz, Riemland Dierehospitaal</b>
Sheep: 1
<b>Villiers, Wilgepoort Veedienste</b>
Sheep: 2
<b>Warden, Warden Dierekliniek</b>
Sheep: 2
<b>Western Cape</b>
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 2
<b>Oudtshoorn, Ostrimed</b>
Sheep: 2, Goat: 2
<b>Northern Cape</b>
<b>Upington, Upington Veeartsenykliniek</b>
Sheep: 3
Dorper that were fed due to drought, 2 farms one in Kenhardt district and another in Olifantshoek district

<b>Tetanus</b>	<a href="#">^</a>
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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>Sheep</b>					2.0 (1)				
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<b>Free State</b>
<b>Bloemfontein, Dr Stephan Wessels</b>
Sheep: 2

<b>Salmonellosis</b>	<a href="#">^</a>
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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)			2.0 (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>	1.0 (1)	2.0 (1)			2.0 (1)				
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Dairy						2.0 (1)			
Mpumalanga									
Nelspruit, Nelspruit Animal Hospital									
Beef: 1									
Gauteng									
Bronkhorstspuit, Kerkstraat Dierekliniek									
Beef: 2									
Free State									
Viljoenskroon, Viljoenskroon Dierekliniek									
Beef: 2									
Eastern Cape									
Jeffreys Bay, Cape Cross Veterinary Hospital									
Dairy: 2									
Brucella abortus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		1.5 (2)	2.4 (9)	2.2 (10)	3.0 (1)	1.0 (1)		3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.0 (2)		1.5 (2)	2.4 (9)	2.2 (10)	3.0 (1)	1.0 (1)		3.0 (1)
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
Standerton, Econovet									
Beef: 3									
Limpopo									
Makhado, Blouberg Dierekliniek									
Beef: 2									
Two cases									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1									
North West									
Bloemhof, Bloemhof Dierekliniek									
Beef: 3									
Out of a herd of 600 animals, 35% tested positive									
Christiana, Christiana Dierehospitaal									
Beef: 1									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 1									
Leeudoringstad, Leeudoringstad Dierekliniek									
Beef: 2									
Infected herd, third time taking blood samples									
Lichtenburg, Dr CM Kruger-Rall									
Beef: 3									
16 Herds with 189 positive cattle									
Stella, Stella Dierekliniek									
Beef: 3									

**Vryburg, Molopo Dierekliniek**

Beef: 3

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

**Vryburg, Vryburg Prov Vet Laboratory**

Beef: 3

A Total of 99 herds, 8559 animals tested. 37 Positive herds: Naledi = 10/26 herds (10 positive herds out of 26 herds tested), Mamusa = 10/12 herds, Mafikeng = 5/9 herds, Lekwa Teemane = 1/2 herds, Greater Taung = 2/16 herds, Kagisano = 6/23 herds, Molopo = 3/8 herds, Northern Cape (Kimberley) = 0/3 herds. (Titre: 18-24 = 41 animals. Titre: 30-49 = 47 animals. Titre: >60 = 191 animals)

**Free State****Bethlehem, Bethlehem Animal Hospital**

Beef: 3

**Bloemfontein, Dr Stephan Wessels**

Beef: 1

New farm Bloemfontein area

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 2

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Excelsior, Weltevrede Dierekliniek**

Beef: 1

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3

**Villiers, Wilgepoort Veedienste**

Beef: 2

**Warden, Warden Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

**Kwazulu-Natal****Underberg, Underberg Veterinary Surgery**

Beef: 3

Seems to be back in our area after a few years

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 1

**Northern Cape****Kimberley, Kimberley 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

<b>Sheep</b>	1.0 (1)	3.0 (1)
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#### Free State

##### Villiers, Wilgepoort Veedienste

Sheep: 1

#### Northern Cape

##### De Aar, De Aar Veterinary Clinic

Sheep: 3

37 out of 45 rams positive on one farm

### Johne`s disease [^](#)

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>Sheep</b>	1.0 (1)	1.0 (1)
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#### Eastern Cape

##### Aliwal North, Hertzogbrug Direklinik

Sheep: 1

#### Western Cape

##### Heidelberg (WC), Heidelberg Direklinik

Sheep: 1

### Septicaemia [^](#)

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

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

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

#### Free State

##### Villiers, Wilgepoort Veedienste

Beef: 2, Sheep: 2

#### Kwazulu-Natal

##### Dundee, Endumeni Herd health

Sheep: 1

#### Western Cape

##### Paarl, Paarl Dierehospitaal;

Beef: 2, Sheep: 2

E. coli									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (6)	3.0 (2)		2.5 (6)	2.5 (13)	2.0 (3)		1.5 (2)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.3 (4)	3.0 (1)		2.4 (5)	2.4 (7)	2.0 (3)			
Dairy	3.0 (1)								
Sheep	2.0 (1)	3.0 (1)		3.0 (1)	2.7 (6)			1.5 (2)	
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 2, Sheep: 2									
Hendrina, Mooiplaas Veterinêre Dienste									
Beef: 2									
Calves									
Lydenburg, Longtom Dierekliniek									
Beef: 3, Dairy: 3									
Volksrust, Grasslands vet clinic									
Beef: 2									
Twenty calves in one herd									
Gauteng									
Nigel, Welgelegen Dierekliniek									
Beef: 3									
Pretoria, Anima Veterinary Consulting Rooms									
Sheep: 3									
North West									
Brits, Brits Dierekliniek									
Beef: 3									
Christiana, Christiana Dierehospitaal									
Beef: 1									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 3, Sheep: 3									
Leeudoringstad, Leeudoringstad Dierekliniek									
Beef: 3									
Calves, resistant bacteria									
Vryburg, Molopo Dierekliniek									
Beef: 2									
Free State									
Bethlehem, Bethlehem Animal Hospital									
Beef: 3, Sheep: 3									
Bloemfontein, Dr Stephan Wessels									
Beef: 1									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3, Sheep: 3									
Kroonstad, Kroonstad Dierehospitaal									
Sheep: 2									

**Senekal, Senekal Direkliniek**

Beef: 2, Sheep: 2

**Viljoenskroon, Viljoenskroon Direkliniek**

Beef: 3, Sheep: 3

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

**Winburg, Winburg Direkliniek**

Beef: 2

**Kwazulu-Natal****Pietermaritzburg, Veterinary House Hospital**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

**Western Cape****Beaufort West, Beaufort West State Vet**

Sheep: 2

Lambs more than 2 months old

**Caledon, Caledon Direkliniek**

Sheep: 1

**Enzootic Abortion**

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

Sheep								2.0 (1)	3.0 (1)
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**Western Cape****Riversdale, Riversdal Direkliniek**

Sheep: 2

**Northern Cape****Upington, Upington Veeartsenykliniek**

Sheep: 3

One farm Western Kalahari 40% of ewes, aborted or weak lambs born

**Dermatophilosis (Lumpy Wool)**

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

Sheep					2.0 (2)			2.0 (1)	2.0 (1)
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**Free State**

**Oranjeville, Grasveld Kuddegeseondheid**

Sheep: 2

**Warden, Warden Dierekliniek**

Sheep: 2

**Western Cape****Riversdale, Riversdal Dierekliniek**

Sheep: 2

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Sheep: 2

**Intrauterine Gangrene**

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

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

Beef	1.0 (1)	
Sheep		1.0 (1)

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

Beef: 1

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

Sheep: 1

**Bovine Dermatophilosis (Senkobo disease)**

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)			2.0 (1)	

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

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

Beef: 2

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

Beef: 2

**Free State****Reitz, Riemland Dierehospitaal**

Beef: 2

**Western Cape****George, George Animal Hospital**

Beef: 2

<i>Fusibacterium necrophorum</i>									<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)

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

Sheep	2.0 (1)				2.0 (1)				3.0 (1)
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#### Mpumalanga

**Lydenburg, Longtom Diereklíníek**

Sheep: 2

#### Free State

**Villiers, Wilgepoort Veedienste**

Sheep: 2

#### Northern Cape

**Colesberg, Karoo Veterinary Hospital**

Sheep: 3

Dorpers

Other									<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)	2.0 (1)	2.0 (2)	1.0 (1)	3.0 (1)

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

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

#### Gauteng

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

Sheep: 2

Lumpy jaw

#### Free State

**Hoopstad, Kameeldoring Diereklíníek**

Sheep: 2

#### Kwazulu-Natal

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

Sheep: 2

A handful of clostridial deaths in sheep from rural farms

#### Eastern Cape

**Adelaide, Adelaide Veterinary Clinic**

Beef: 2

Clostridial infections

Sheep: 2

Clostridial infections

### Western Cape

#### Piketberg, Piketberg Dierehospitaal

Dairy: 1

Hindgut fermentation in dairy cows due to poor nutrition with single death due to clostridial overgrowth

### Northern Cape

#### Colesberg, Karoo Veterinary Hospital

Sheep: 3

*Mycoplasma*

Pasteurellosis									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average			2.0 (1)		2.3 (8)	1.0 (1)	1.0 (1)	1.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef			2.0 (1)		2.0 (4)		1.0 (1)	1.0 (1)	
Sheep					2.5 (4)				
Goat						1.0 (1)			

### Limpopo

#### Makhado, Blouberg Dierekliniek

Beef: 2

4 cases

### Free State

#### Bultfontein, Greylingrust Dieresprekkamer

Sheep: 2

#### Ficksburg, Oosvrystaat Diere Produkte

Beef: 1

#### Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

#### Villiers, Wilgepoort Veedienste

Beef: 1, Sheep: 2

#### Wesselsbron, Wesselsbron Dierekliniek

Sheep: 3

Feedlot sheep: Die of pulpy kidney and pasteurellosis, 40% deaths. Nutrition under standard, fed maize leaves, wheat straw. Sheep under weight.

#### Winburg, Winburg Dierekliniek

Beef: 3

### Kwazulu-Natal

#### Camperdown, Camperdown Vet Clinic

Goat: 1

### Eastern Cape

#### Stutterheim, Stutterheim Veterinary Clinic

Beef: 1



Acute pneumonia in cow suspect pasteurellosis

#### Western Cape

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

### Protozoal diseases (other)

#### Besnoitiosis

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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#### Limpopo

**Bela-Bela, Warmbad Dierekliniek**

Beef: 2

#### Coccidiosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (2)	2.0 (1)	1.5 (2)	2.0 (6)	1.0 (4)	2.0 (4)	1.8 (8)	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 (1)	2.3 (3)	1.0 (2)		2.0 (1)	
Sheep				1.0 (1)	1.7 (3)	1.0 (1)	2.0 (1)	2.0 (4)	3.0 (1)
Goat	1.0 (1)	3.0 (1)				1.0 (1)	2.0 (3)	1.3 (3)	1.0 (1)

#### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Goat: 1

#### Gauteng

**Nigel, Nigel Diere Spreekkamer**

Beef: 1

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

Goat: 3

17 cases

#### Limpopo

**Vaalwater, Vaalwater Dieresprekkamer**

Beef: 2

Eight calves

#### North West

**Klerksdorp, Klerksdorp Dierehospitaal**

Sheep: 1

**Vryburg, Molopo Dierekliniek**

Beef: 2

**Free State****Bethlehem, Bethlehem Animal Hospital**

Sheep: 1

**Bloemfontein, Dr Stephan Wessels**

Sheep: 2

**Oranjeville, Grasveld Kuddegeseondheid**

Sheep: 2

**Parys, Parys Dierehospitaal**

Beef: 3

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

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

Goat: 1

**Dundee, Endumeni Herd health**

Beef: 1

**Eshowe, Eshowe Veterinary Hospital**

Sheep: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 1

**Eastern Cape****Bathurst, Dr Jane Pistorius**

Goat: 2

Seven lambs

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 2

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

Sheep: 2, Goat: 2

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

Beef: 2, Sheep: 2

**George, George Animal Hospital**

Sheep: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 1

**Oudtshoorn, Ostrimed**

Goat: 2

**Oudtshoorn, Oudtshoorn Dierekliniek**

Goat: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Sheep: 2, Goat: 1

**Northern Cape****Colesberg, Karoo Veterinary Hospital**

Sheep: 3

Lambs

**Kuruman, Kuruman Dierekliniek**

Goat: 1

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)	2.5 (6)	2.0 (1)	2.4 (9)	2.2 (18)	2.0 (6)		2.7 (9)	

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 (3)	2.0 (1)	2.3 (4)	2.2 (10)	2.0 (4)		3.0 (1)	
Dairy	3.0 (1)	1.0 (1)		3.0 (1)	2.0 (1)	2.0 (1)		2.5 (6)	
Sheep		2.5 (2)		2.5 (4)	2.3 (7)	2.0 (1)		3.0 (2)	

#### Mpumalanga

##### Lydenburg, Longtom Dierekliniek

Beef: 3, Dairy: 3

##### Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

#### Gauteng

##### Bapsfontein, Bapsfontein Dierehospitaal

Dairy: 1

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 3, Sheep: 2

##### Muldersdrift, Muldersdrift Animal Hospital

Beef: 3

Calves

##### Nigel, Nigel Diere Spreekkamer

Beef: 3

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3

#### Limpopo

##### Bela-Bela, Warmbad Dierekliniek

Beef: 2

#### North West

##### Brits, Brits Dierekliniek

Sheep: 3

##### Christiana, Christiana Dierehospitaal

Beef: 2, Sheep: 2

##### Ottosdal, Ottosdal dierekliniek

Dairy: 3

Snap test positive, E. coli negative

Sheep: 3

Snap test positive, E. coli negative

##### Potchefstroom, Morvet

Beef: 2

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

Beef: 2

Calves

Sheep: 2

Lambs

##### Vryburg, Vryburg Dierehospitaal

Beef: 3

### **Free State**

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

Beef: 2

#### **Bultfontein, Greylingrust Dieresprekkamer**

Sheep: 3

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

Beef: 2, Sheep: 2

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

Beef: 2, Dairy: 2, Sheep: 2

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

Beef: 3

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

Beef: 2, Sheep: 2

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

Beef: 3

More cases than in October

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

Beef: 1

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

Beef: 2, Sheep: 2

#### **Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

#### **Warden, Warden Dierekliniek**

Beef: 2, Sheep: 2

### **Kwazulu-Natal**

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

Beef: 2

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

Beef: 3

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

Dairy: 2

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

Beef: 2

Fewer cases in calves than last 2 years

Sheep: 2

Fewer cases in lambs than last 2 years

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

Beef: 1

### **Western Cape**

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

Sheep: 3

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

Beef: 3, Dairy: 3

#### **George, George Herd Heath Consult**

Dairy: 2

#### **Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

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

Dairy: 2

#### **Malmesbury, Dr Otto Kriek**

Dairy: 3

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

**Riversdale, Riversdal Dierekliniek**

Dairy: 3, Sheep: 3

**Fungal diseases****Ringworm**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.7 (3)	2.0 (1)	1.5 (2)	3.0 (3)	1.5 (2)	1.8 (4)	1.5 (2)	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

<b>Beef</b>	1.7 (3)		1.5 (2)	3.0 (2)	2.0 (1)	1.8 (4)	1.0 (1)	1.0 (1)	
<b>Dairy</b>								2.0 (2)	
<b>Sheep</b>		2.0 (1)		3.0 (1)	1.0 (1)		2.0 (1)		2.0 (1)
<b>Goat</b>									2.0 (1)

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

Beef: 2

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Gauteng****Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Beef: 2

8 cases

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

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

Beef: 3, Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3

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

Beef: 2, Sheep: 1

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

Beef: 1

**Eshowe, Eshowe Veterinary Hospital**

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Newcastle, Ncanduvet Newcastle**

Beef: 1

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 1

**Witelsbos, Witelsbos Veterinary Consulting Rooms**

Sheep: 2

**Western Cape****Darling, Tygerberg Dierehospitaal Darling**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Sheep: 2, Goat: 2

**Viral Diseases (other)****BMC (snotsiekte)**

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

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

Beef				1.0 (2)	1.0 (1)				
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**North West****Lichtenburg, Dr CM Kruger-Rall**

Beef: 1

**Vryburg, Molopo Dierekliniek**

Beef: 1

**Free State****Villiers, Wilgepoort Veedienste**

Beef: 1

**Rabies**

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

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)	1.0 (1)			1.0 (1)
<b>North West</b>									
<b>Vryburg, Vryburg Dierehospitaal</b>									
Beef: 3									
<b>Free State</b>									
<b>Villiers, Wilgepoort Veedienste</b>									
Beef: 1									
<b>Western Cape</b>									
<b>Malmesbury, Dr Otto Kriek</b>									
Beef: 1									
Yellow mongooses and bat-eared foxes come in contact in burrows. Bat-eared foxes then become infected and in turn probably transmit the disease to cattle. This has become a persistent problem in certain areas in the Malmesbury district.									
<b>BVD (Bovine viral diarrhoea)</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)		
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>Eastern Cape</b>									
<b>East London, Border Kei veterinary consultants</b>									
Beef: 2									
<b>IBR (Infectious bovine rhinotracheitis)</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)				1.0 (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)				1.0 (1)		
<b>Limpopo</b>									
<b>Makhado, Blouberg Dierekliniek</b>									
Beef: 2									
Two cases									
<b>Eastern Cape</b>									
<b>East London, Border Kei veterinary consultants</b>									
Beef: 1									
<b>PI3</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>

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									
Tzaneen, ZZ2 Farm Practice									
Dairy: 1									
Enzootic Bovine Leucosis (EBL)									<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)	2.0 (2)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					2.0 (1)	1.0 (1)			
Dairy					1.0 (1)			2.0 (2)	
Free State									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Underberg, Underberg Veterinary Surgery									
Beef: 1									
Eastern Cape									
Humansdorp, Humansdorp Veterinary Clinic									
Dairy: 1									
Western Cape									
Malmesbury, Bergzicht Dierehospitaal									
Dairy: 2									
Malmesbury, Dr Otto Kriek									
Dairy: 2									
Jaagsiekte									<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									
Bronkhorstspuit, Kerkstraat Dierekliniek									
Sheep: 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**

## Ermelo, Môregloed Veterinêre Spreekkamer

**Lydenburg, Longtom Dierkliniek**

## Gauteng

## Bapsfontein, Bapsfontein Dierehospitaal

### Hammanskraal, Themba Animal Clinic

## North West

## Goat: 2

## Bultfontein

## Hoopstad, Hoopstad Dierekliniek

## Hoopstad, Kameeldoring Dierekli

### Kroonstad, Kroonstad Dierehospitaal

## Oranjeville, Grasveld Kuddegesondhe

## Viljoenskroon, Viljoenskroon Dierekliniek

## Kwazulu-Natal

Sheep: 1

Goat: 2

Goat: 1

Goat: 3

Sheep: 2

## East London, Border Kei veterinary consultants

Sheep: 2

**Witelsbos, Witelsbos Veterinary Consulting Rooms**

Sheep: 2

**Western Cape**

**George, George Animal Hospital**

Sheep: 3

**Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 3

**Oudtshoorn, Oudtshoorn Dierekliniek**

Sheep: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Goat: 1

**Worcester, Durban Straat Dierekliniek Worcester**

Sheep: 2

**Northern Cape**

**Kuruman, Kuruman Dierekliniek**

Sheep: 3

Warts									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.5 (2)		2.0 (1)	2.8 (4)	2.0 (3)	1.5 (2)	1.7 (6)	3.0 (1)

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

Beef	2.0 (2)	1.0 (1)		2.0 (1)	2.8 (4)	2.0 (3)	1.5 (2)	1.8 (4)	
Dairy								1.5 (2)	
Sheep		2.0 (1)							
Goat									3.0 (1)

**Mpumalanga**

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Gauteng**

**Nigel, Nigel Diere Sprekkamer**

Sheep: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 1

**North West**

**Brits, Brits Dierekliniek**

Beef: 2

**Free State**

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 2

**Eshowe, Eshowe Veterinary Hospital**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 2

**Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

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

Beef: 1

**George, George Animal Hospital**

Beef: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Moorreesburg, Korhaanrug Dieregesondheid**

Beef: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1, Dairy: 1

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Goat: 3

**Rota virus**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)	1.0 (1)	2.0 (1)	2.5 (2)	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		1.0 (1)		2.0 (1)	2.5 (2)	2.0 (2)			
Dairy		1.0 (1)						2.0 (1)	
Goat			1.0 (1)						

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

Dairy: 1

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

**Limpopo****Tzaneen, ZZ2 Farm Practice**

Goat: 1

**North West****Vryburg, Vryburg Dierehospitaal**

Beef: 2

#### Free State

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

#### Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic**

Beef: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 2

#### Western Cape

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

### Other viral disease not listed



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

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

Dairy			1.0 (1)						
Sheep			1.0 (1)						
Goat			1.0 (1)						

#### Limpopo

**Tzaneen, ZZ2 Farm Practice**

Dairy: 1, Sheep: 1, Goat: 1

### Poisonings (Plant) and Fungal

### Cardiac glycoside poisoning



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)					2.0 (3)	2.3 (3)	
Beef		2.0 (1)					2.0 (1)	1.0 (1)	
Sheep							2.0 (1)	3.0 (2)	
Goat							2.0 (1)		

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

#### Eastern Cape

**Adelaide, Adelaide Veterinary Clinic**

Beef: 2

Maerman, slangkop and cotyledons

Sheep: 2

Maerman, slangkop and cotyledons

Goat: 2

Maerman, slangkop and cotyledons

### Western Cape

**Beaufort West, Beaufort Dierekliniek**

Beef: 1, Sheep: 3

**Beaufort West, Beaufort West State Vet**

Sheep: 3

Ornithogalum (Krublaartulp) causing krimpsiekte in a wide area

### Cestrum

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

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

Beef	1.0 (1)				2.0 (2)		2.0 (1)		
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### Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

### Free State

**Bloemfontein, Dr Stephan Wessels**

Beef: 2

**Excelsior, Weltevrede Dierekliniek**

Beef: 2

### Eastern Cape

**East London, Border Kei veterinary consultants**

Beef: 2

### Cynanchum poisoning

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)	
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### Western Cape

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 1

### Facial eczema

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

Sheep					1.0 (1)			2.0 (1)	
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#### Free State

Warden, Warden Direkliniek

Sheep: 1

#### Western Cape

Heidelberg (WC), Heidelberg Direkliniek

Sheep: 2

#### Geeldikkop/Dikoor

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

Sheep					2.0 (2)			2.0 (1)	
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#### Free State

Excelsior, Weltevrede Direkliniek

Sheep: 2

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

#### Western Cape

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

#### Gifblaar

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

Average			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

Beef			2.0 (1)						
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#### Limpopo

Bela-Bela, Warmbad Direkliniek

Beef: 2

## Gousiekte

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

### Average

1.5 (2)

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

## Beef

1.5 (2)

## Limpopo

## Bela-Bela, Warmbad Dierekliniek

Beef: 2

### Polokwane, Pietersburg Veterinary Clinic

Beef: 1

## Kikuyu poisoning

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

## Beef

1.0  
(1)

2.0 (1)

## Free State

**Warden, Warden Dierkliniek**

Beef: 1

## Kwazulu-Natal

## Dundee, Endumeni Herd health

Beef: 2

**Lantana**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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### Average

1.0 (1)

### 3.0 (1)

1.3 (3)

2.0 (1)

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

## Beef

1.0 (1)

3.0 (1)

1.5 (2)

2.0 (1)

## Sheep

1.0 (1)

## Mpumalanga

### Piet Retief, Pets Vet Hospital

Beef: 1

## Limpopo

**Makhado, Blouberg Direklyniek**

Beef: 3

15 cases

**Kwazulu-Natal****Camperdown, Camperdown Vet Clinic**

Sheep: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

**Eastern Cape****East London, Border Kei veterinary consultants**

Beef: 2

**Nenta poisoning (Krimpsiekte)**

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

**Goat**

2.0 (1)

**Western Cape****Beaufort West, Beaufort Direklyniek**

Goat: 2

Goats

**Prussic acid poisoning**

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

**Mpumalanga****Balfour, Balfour Direklyniek**

Sheep: 1

**Bethal, Bethal Direklyniek**

Beef: 1

**Free State****Bultfontein, Greylingrust Dierespreekkamer**

Beef: 1

**Kwazulu-Natal****Underberg, Underberg Veterinary Surgery**



Beef: 1

#### Eastern Cape

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

Sheep: 2

#### Western Cape

**Riversdale, Riversdal Dierekliniek**

Beef: 1

### Seneciosis

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** 2.0 (1)

**Sheep** 2.0 (1)

#### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Beef: 2

#### Kwazulu-Natal

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

Sheep: 2

Deaths due to seneciosis fewer due to grass growth

### Tulip Poisoning

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

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)

#### Mpumalanga

**Standerton, Econovet**

Beef: 2

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

#### Limpopo

**Bela-Bela, Warmbad Dierekliniek**

Beef: 1

### Vermeersiekte ( *Geigeria* spp.)

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)			
Free State									
Ficksburg, Oosvrystaat Diere Produkte									
Sheep: 2									
Mycotoxycosis									^
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)	
Western Cape									
Darling, Tygerberg Dierehospitaal Darling									
Beef: 2									
Diplodiosis									^
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)				
Free State									
Clocolan, Clocolan Dierekliniek									
Sheep: 1									
Other									^
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)			3.0 (1)	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									

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

#### **Mpumalanga**

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

Beef: 3

Cattle pour on with herbicide 10 calves less than a month old poisoned with Ivomec and Spray dip

#### **Gauteng**

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

Sheep: 2

Plant poisoning

#### **North West**

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

Beef: 2

Slangkop

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

Goat: 2

Wilde dadel poisoning - few Angoras died

#### **Eastern Cape**

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

Sheep: 3

Ganskweek poisoning

#### **Western Cape**

##### **Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 3

Chinkerinchee

#### **Northern Cape**

##### **Kuruman, Kuruman Dierekliniek**

Beef: 2

### **Poisonings**

#### **Water contamination**

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

#### **Dairy**

1.0 (1)

#### **Western Cape**

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

Dairy: 1

#### **Urea Poisoning**

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

#### Mpumalanga

**Lydenburg, Longtom Dierekliniek**

Beef: 3

### Macro Nutritional Problems

#### Energy deficiency



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

**Average** 3.0 (1) 2.0 (2) 2.5 (4) 2.0 (3) 2.5 (2) 2.3 (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** 3.0 (1) 1.0 (1) 2.5 (2) 2.0 (2) 2.0 (1) 3.0 (1)

**Dairy** 2.0 (1)

**Sheep** 2.5 (2) 3.0 (1) 2.0 (1)

**Goat** 3.0 (1) 2.0 (1)

#### Mpumalanga

**Lydenburg, Longtom Dierekliniek**

Beef: 3

#### North West

**Potchefstroom, Bult Dierekliniek**

Goat: 3

**Rustenburg, Bergbos Dierekliniek**

Beef: 1

#### Free State

**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2, Sheep: 2

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

#### Kwazulu-Natal

**Camperdown, Camperdown Vet Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 2, Goat: 2

#### Eastern Cape

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

**Steynsburg, Steynsburg Dierehospitaal**

Sheep: 3

**Western Cape****Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2, Sheep: 2

**Protein deficiency**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	3.0 (1)	2.0 (1)		1.0 (1)	2.4 (5)	2.0 (1)	3.0 (1)	2.3 (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>	3.0 (1)	2.0 (1)		1.0 (1)	2.3 (3)	2.0 (1)		3.0 (1)	
<b>Dairy</b>								2.0 (1)	
<b>Sheep</b>					2.5 (2)		3.0 (1)	2.0 (1)	

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

Beef: 3

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

Beef: 2

**North West****Rustenburg, Bergbos Dierekliniek**

Beef: 1

**Free State****Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2, Sheep: 2

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

**Winburg, Winburg Dierekliniek**

Beef: 2

**Kwazulu-Natal****Camperdown, Camperdown Vet Clinic**

Beef: 2

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

Sheep: 3

Ill thrift, mostly twin lambs more than 1 000 lambs

**Western Cape****Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2, Sheep: 2

## Phosphate deficiency

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

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

Beef	2.5 (2)	2.0 (1)
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## North West

## Christiana, Christiana Dierhospitaal

Beef: 2

### Vryburg, Vryburg Dierhospitaal

Beef: 3

## Northern Cape

**Kuruman, Kuruman Dierkliniek**

Beef: 2

## Calcium deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.0 (1)	3.0 (2)		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)	1.0 (1)	3.0 (1)	
Dairy			1.3 (3)	
Sheep			3.0 (1)	2.5 (2)

## Mpumalanga

## Balfour, Balfour Dierkliniek

Beef: 1

## Free State

## Warden, Warden Dierkliniek

Beef: 1

## Kwazulu-Natal

### Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

## Western Cape

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierhospitaal**

Dairy: 2, Sheep: 2

## Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 3

## Micro Nutritional Problems

### Iodine deficiency

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

**Dairy** 3.0 (1)

#### Western Cape

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

### Copper deficiency

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** 2.0 (1)

**Goat** 1.0 (1)

#### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Goat: 1

#### North West

**Vryburg, Vryburg Dierehospitaal**

Sheep: 2

### Zinc deficiency

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

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

**Beef** 3.0 (1)

**Sheep** 3.0 (1)

#### Kwazulu-Natal

**Underberg, Underberg Veterinary Surgery**

Beef: 3, Sheep: 3

### Selenium deficiency



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.5 (2)	3.0 (2)	3.0 (2)	1.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef					1.0 (1)	3.0 (1)	3.0 (1)		
Dairy							3.0 (1)		
Sheep				2.0 (1)	2.0 (1)	3.0 (1)		1.0 (1)	

#### North West

**Christiana, Christiana Dierehospitaal**

Sheep: 2

#### Free State

**Excelsior, Weltevrede Direkliniek**

Sheep: 2

**Villiers, Wilgepoort Veedienste**

Beef: 1

#### Kwazulu-Natal

**Underberg, Underberg Veterinary Surgery**

Beef: 3, Sheep: 3

#### Eastern Cape

**East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

#### Western Cape

**Stellenbosch, Stellenbosch Animal Hospital**

Sheep: 1

### Vitamin A deficiency



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

#### Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

#### North West

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

**Free State****Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

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

Sheep: 2

**Vitamin B1 deficiency**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**Average**

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

**Sheep**

1.0 (1)

**Goat**

1.0 (1)

**Western Cape****Oudtshoorn, Ostrimed**

Sheep: 1, Goat: 1

**Multi-factorial Disease Conditions****Abortions**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**Average**

2.0 (3)

1.0 (3)

3.0 (2)

2.0 (8)

2.3 (4)

2.7 (3)

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 (2)

1.0 (2)

3.0 (1)

1.8 (5)

2.3 (3)

2.7 (3)

**Dairy**

1.0 (1)

2.0 (1)

2.0 (3)

**Sheep**

2.0 (1)

3.0 (1)

2.5 (2)

**Goat**

2.0 (1)

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

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 2

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

Beef: 1

**Nigel, Nigel Diere Spreekkamer**

Beef: 1, Dairy: 1

<b>North West</b>									
<b>Christiana, Christiana Dierehospitaal</b>									
Beef: 3, Sheep: 3									
<b>Free State</b>									
<b>Dewetsdorp, Platkop Dierekliniek</b>									
Beef: 1									
<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 3, Sheep: 3									
<b>Kroonstad, Kroonstad Dierehospitaal</b>									
Beef: 1									
<b>Villiers, Wilgepoort Veedienste</b>									
Beef: 2, Dairy: 2, Sheep: 2									
<b>Winburg, Winburg Dierekliniek</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Bergville, Bergville Veterinary Clinic</b>									
Beef: 2									
<b>Bergville, Tugela Vet Clinic</b>									
Goat: 2									
<b>Eshowe, Eshowe Veterinary Hospital</b>									
Beef: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Beef: 3									
<b>Eastern Cape</b>									
<b>Alexandria, Alexandria Platteland Spreekkamer</b>									
Beef: 3									
<b>East London, Border Kei veterinary consultants</b>									
Beef: 3									
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>									
Beef: 2									
<b>Western Cape</b>									
<b>Malmesbury, Dr Otto Kriek</b>									
Dairy: 2									
<b>Malmesbury, Malmesbury Dierehospitaal</b>									
Dairy: 2									
<b>Riversdale, Riversdal Dierekliniek</b>									
Dairy: 2									
<b>Stillbirths</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)	1.0 (2)		2.5 (4)	2.0 (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									
<b>Beef</b>		2.0 (1)	1.0 (2)		2.3 (3)	2.0 (1)	2.0 (1)	1.0 (1)	
<b>Dairy</b>								2.5 (2)	
<b>Sheep</b>					3.0 (1)		2.0 (1)	2.0 (1)	

## Gauteng

### Hammanskraal, Themba Animal Clinic

Beef: 2

## Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

## Tzaneen, ZZ2 Farm Practice

Beef: 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

## Eastern Cape

### East London, Border Kei veterinary consultants

Beef: 2

## Negative results

## Witelsbos, Witelsbos Veterinary Consulting Rooms

Sheep: 2

## Western Cape

**Malmesbury, Malmesbury Dierhospitaal**

Dairy: 2, Sheep: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

## Swellendam, Swellendam Dierehospitaal

Dairy: 3

Stillborn calves with goiters. Iodine supplementation reduced the occurrence dramatically in Jersey calves.

## Abscesses

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (5)	1.9 (9)	1.0 (3)	2.3 (6)	2.1 (13)	1.6 (7)	2.0 (1)	1.4 (9)	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	1.5 (4)	2.5 (2)	1.0 (2)	2.3 (3)	2.0 (8)	1.6 (5)		2.5 (2)	2.0 (1)
Dairy		1.0 (1)						1.3 (3)	
Sheep	3.0 (1)	2.0 (3)	1.0 (1)	2.3 (3)	2.3 (4)	1.0 (1)		1.0 (2)	
Goat		1.7 (3)			2.0 (1)	2.0 (1)	2.0 (1)	1.0 (2)	

**Mpumalanga**

**Balfour, Balfour Diereklínik**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 3

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

**Gauteng**

**Hammanskraal, Themba Animal Clinic**

Beef: 3, Sheep: 2, Goat: 2

**Nigel, Nigel Diere Sprekkamer**

Beef: 2, Dairy: 1

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Goat: 1

**Rayton, Rayton Dierekliniek**

Sheep: 2, Goat: 2

**Limpopo**

**Modimolle, Kranskop Dierekliniek**

Beef: 1

Cow, one big abscess

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1, Sheep: 1

**North West**

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2, Sheep: 2

**Stella, Stella Dierekliniek**

Beef: 2, Sheep: 2

**Free State**

**Bloemfontein, University Free State**

Beef: 2

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 2

**Excelsior, Weltevrede Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Hoopstad, Kameeldoring Dierekliniek**

Beef: 1, Goat: 2

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2, Sheep: 3

**Senekal, Senekal Dierekliniek**

Sheep: 1

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2, Goat: 2

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Pongola, Pongola Animal Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 1, Sheep: 1

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

Goat: 2

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

Beef: 2

**Caledon, Overberg Veterinary Hospital**

Goat: 1

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Oudtshoorn, Ostrimed**

Sheep: 1

**Oudtshoorn, Oudtshoorn Dierekliniek**

Goat: 1

**Paarl, Paarl Dierehospitaal;**

Beef: 3, Sheep: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Beef: 2

**Bladder stones**

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

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

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

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

Sheep: 1

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

Beef: 1

Urolithiasis

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

Sheep: 1

**Reitz, Riemland Dierehospitaal**

Sheep: 2

**Northern Cape****Upington, Upington Veeartsenykliniek**

Sheep: 2

Castrated rams (hamels), in feed lot

**Blindness**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				2.0 (1)	2.9 (7)			1.5 (2)	2.0 (1)

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

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

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

Beef: 2

Two cattle died with complete blindness. Treated one with vitamin B 1 recovered. At PM could not find any lead particles. In total 6 animals affected. High levels of sulphur in the lick.

**Free State****Excelsior, Weltevrede Dierekliniek**

Sheep: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Sheep: 2

**Villiers, Wilgepoort Veedienste**

Beef: 3, Dairy: 3

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Goat: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Sheep: 2

**Bloat**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	1.5 (2)	1.0 (1)		1.8 (5)	1.3 (3)		2.0 (1)	2.5 (2)

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

Beef	1.0 (1)	1.0 (1)	1.0 (1)		1.7 (3)	1.0 (2)			2.0 (1)
Dairy					1.0 (1)	2.0 (1)		2.0 (1)	
Sheep	2.0 (1)	2.0 (1)			3.0 (1)				3.0 (1)

#### Mpumalanga

##### Grootvlei, Grootvlei Direkliniek

Beef: 1

##### Lydenburg, Longtom Direkliniek

Sheep: 2

#### Gauteng

##### Nigel, Nigel Dire Spreekkamer

Beef: 1

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

Sheep: 2

#### Limpopo

##### Polokwane, Pietersburg Veterinary Clinic

Beef: 1

#### Free State

##### Bethlehem, Bethlehem Animal Hospital

Sheep: 3

##### Bultfontein, Greylingrust Dierespreekkamer

Beef: 1

##### Excelsior, Weltevrede Direkliniek

Beef: 3

##### Villiers, Wilgepoort Veedienste

Beef: 1, Dairy: 1

#### Kwazulu-Natal

##### Dundee, Endumeni Herd health

Dairy: 2

##### Estcourt, Estcourt Vet Clinic

Beef: 1

##### Pietermaritzburg, Veterinary House Hospital

Beef: 1

#### Western Cape

##### Malmesbury, Malmesbury Dierhospitaal

Dairy: 2

#### Northern Cape

##### Colesberg, Karoo Veterinary Hospital

Sheep: 3

##### Kuruman, Kuruman Direkliniek

Beef: 2



Blue udder									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)		2.0 (1)	1.6 (7)	1.0 (1)	3.0 (1)	1.8 (5)	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)				
Dairy					1.0 (1)			1.5 (2)	
Sheep	2.0 (1)			2.0 (1)	1.6 (5)	1.0 (1)		2.0 (3)	1.0 (1)
Goat		1.0 (1)					3.0 (1)		
Mpumalanga									
Lydenburg, Longtom Dierekliniek									
Sheep: 2									
Gauteng									
Rayton, Rayton Dierekliniek									
Goat: 1									
North West									
Leeudoringstad, Leeudoringstad Dierekliniek									
Sheep: 2									
Free State									
Hoopstad, Kameeldoring Dierekliniek									
Dairy: 1, Sheep: 1									
Kroonstad, Kroonstad Dierehospitaal									
Sheep: 2									
Oranjeville, Grasveld Kuddegesondheid									
Sheep: 2									
Reitz, Riemland Dierehospitaal									
Sheep: 1									
Villiers, Wilgepoort Veedienste									
Sheep: 2									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Tugela Vet Clinic									
Sheep: 1									
Eastern Cape									
East London, Border Kei veterinary consultants									
Goat: 3									
Western Cape									
Caledon, Overberg Veterinary Hospital									
Sheep: 2									
Malmesbury, Malmesbury Dierehospitaal									
Dairy: 2, Sheep: 3									
Oudtshoorn, Ostrimed									

Sheep: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

**Northern Cape**

**De Aar, De Aar Veterinary Clinic**

Sheep: 1

Diarrhoea									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (8)	2.0 (4)		3.0 (5)	2.6 (23)	1.9 (14)	2.0 (1)	2.7 (9)	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	2.6 (5)	2.0 (1)		3.0 (3)	2.6 (11)	2.3 (8)		2.5 (4)	3.0 (1)
Dairy					2.0 (2)	1.0 (1)	2.0 (1)	3.0 (2)	
Sheep	2.3 (3)	2.0 (2)		3.0 (2)	2.7 (9)	1.5 (2)		2.7 (3)	
Goat		2.0 (1)			3.0 (1)	1.7 (3)			

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2

**Ermelo, Môregloed Veterinêre Spreekkamer**

Beef: 3

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 3, Sheep: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 3

**Volksrust, Grasslands vet clinic**

Sheep: 3

Diarrhoea in lambs, 20% of 400 lambs

**Gauteng**

**Hammanskraal, Themba Animal Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Rayton, Rayton Dierekliniek**

Sheep: 2

**North West**

**Brits, Brits Dierekliniek**

Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 3

**Lichtenburg, Dr CM Kruger-Rall**

Beef: 3

**Stella, Stella Dierekliniek**

Beef: 3

## **Free State**

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

Dairy: 2

### **Bultfontein, Greylingrust Dierespreekkamer**

Sheep: 3

### **Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

### **Excelsior, Weltevrede Dierekliniek**

Beef: 3

### **Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

### **Kroonstad, Kroonstad Dierehospitaal**

Sheep: 3

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

Beef: 3

### **Oranjeville, Grasveld Kuddegeseondheid**

Beef: 2, Sheep: 2

### **Reitz, Riemland Dierehospitaal**

Beef: 2

### **Senekal, Senekal Dierekliniek**

Beef: 2, Sheep: 2

### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

### **Villiers, Wilgepoort Veediensie**

Beef: 3, Sheep: 3, Goat: 3

### **Warden, Warden Dierekliniek**

Beef: 3, Sheep: 3

### **Winburg, Winburg Dierekliniek**

Beef: 3

## **Kwazulu-Natal**

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

Beef: 1, Sheep: 1, Goat: 1

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

Goat: 1

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

Beef: 3, Dairy: 1

### **Eshowe, Eshowe Veterinary Hospital**

Beef: 2

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

Beef: 3, Sheep: 2, Goat: 3

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

Beef: 3

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

Beef: 1

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

Beef: 2

### **Vryheid, Vryheid Privaat Veeartse**

Beef: 3

## **Eastern Cape**

### **East London, Border Kei veterinary consultants**

Dairy: 2

## **Western Cape**

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

Beef: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3, Sheep: 3

**Oudtshoorn, Ostrimed**

Beef: 3

Calves

Sheep: 3

Lambs

**Plettenberg Bay, Plettenberg Bay A Reitz**

Beef: 3

10 out of 40 weaned calves with diarrhoea, unknown cause

**Riversdale, Riversdal Dierekliniek**

Dairy: 3, Sheep: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Beef: 3

**Epididymitis**

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

Sheep: 2

**Eye Cancer**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.6 (7)	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		1.0 (1)			1.3 (3)	2.0 (1)			
Dairy	1.0 (1)				2.0 (2)			2.0 (1)	
Sheep					1.5 (2)				

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

Dairy: 1

**Gauteng**

**Nigel, Nigel Diere Spreekkamer**

Beef: 1

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

Dairy: 2, Sheep: 1

**Senekal, Senekal Dierekliniek**

Beef: 1, Dairy: 2

**Villiers, Wilgepoort Veedienste**

Beef: 1, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Western Cape****Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Eye infections**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.1 (8)	2.1 (7)	3.0 (1)	2.6 (7)	2.5 (33)	1.9 (8)	1.8 (6)	2.3 (6)	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

<b>Beef</b>	2.3 (4)	2.7 (3)	3.0 (1)	2.6 (5)	2.6 (17)	1.9 (7)	1.5 (4)	2.3 (3)	1.5 (2)
<b>Dairy</b>					2.0 (2)			2.0 (2)	
<b>Sheep</b>	2.0 (4)	2.0 (2)		2.5 (2)	2.4 (14)		2.5 (2)	3.0 (1)	
<b>Goat</b>		1.5 (2)				2.0 (1)			2.0 (1)

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

Beef: 1, Sheep: 1

**Ermelo, Môregloed Veterinêre Spreekkamer**

Sheep: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 3, Sheep: 3

**Standerton, Econovet**

Beef: 3, Sheep: 3

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

Beef: 3, Sheep: 2, Goat: 2

**Muldersdrift, Muldersdrift Animal Hospital**

Beef: 3

**Nigel, Nigel Diere Spreekkamer**

Beef: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Goat: 1

**Limpopo**

**Bela-Bela, Warmbad Dierekliniek**

Beef: 3

Moraxella

**North West**

**Brits, Zodiac Dierekliniek**

Beef: 2

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2, Sheep: 2

**Stella, Stella Dierekliniek**

Beef: 3

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

**Free State**

**Bethlehem, Bethlehem Animal Hospital**

Sheep: 3

**Bethlehem, Union Street Animal Consulting Rooms**

Beef: 2, Sheep: 2

**Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

**Bloemfontein, University Free State**

Beef: 2

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 2, Sheep: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 3, Sheep: 3

**Frankfort, Frankfort Dierekliniek**

Beef: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Sheep: 2

**Memel, Memel Veterinary Clinic**

Beef: 3, Sheep: 2

**Parys, Parys Dierehospitaal**

Beef: 3, Sheep: 2

**Reitz, Riemland Dierehospitaal**

Beef: 2, Dairy: 2, Sheep: 2

**Senekal, Senekal Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

**Vrede, Vrede Dierehospitaal**

Beef: 3

**Warden, Warden Dierekliniek**

Beef: 2, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 1

**Dundee, Endumeni Herd health**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2, Goat: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

Moraxella bovis

**Underberg, Underberg Veterinary Surgery**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

**Eastern Cape****Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

**East London, Border Kei veterinary consultants**

Beef: 1

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

Sheep: 2

**Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

**Steynsburg, Steynsburg Dierehospitaal**

Beef: 3, Sheep: 3

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

Beef: 2

**Darling, Tygerberg Dierehospitaal Darling**

Sheep: 3

**George, George Animal Hospital**

Beef: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Worcester, Durban Straat Dierekliniek Worcester**

Beef: 3

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

Beef: 1

**Kuruman, Kuruman Dierekliniek**

Beef: 2, Goat: 2

**Joint Ill**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	1.5 (2)	2.0 (1)	2.0 (1)	2.3 (4)	1.8 (5)	1.5 (4)	1.0 (1)	1.3 (4)
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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>	1.5 (2)		2.0 (1)	2.0 (3)	1.8 (4)	1.5 (4)		2.0 (1)
<b>Dairy</b>								1.0 (1)
<b>Sheep</b>		2.0 (1)		3.0 (1)	2.0 (1)		1.0 (1)	1.0 (1)
<b>Goat</b>								1.0 (1)

#### **Mpumalanga**

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

Beef: 1

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

Beef: 2

#### **Gauteng**

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

Sheep: 2

Septic arthritis

#### **Limpopo**

##### **Bela-Bela, Warmbad Dierekliniek**

Beef: 2

Joint ill due to trauma

#### **North West**

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

Beef: 1

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

Beef: 3, Sheep: 3

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

Beef: 2

#### **Free State**

##### **Bultfontein, Greylingrust Dieresprekkamer**

Beef: 1

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

Beef: 2

##### **Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

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

Beef: 2

#### **Kwazulu-Natal**

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

Beef: 2

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

Beef: 1

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

Beef: 1

##### **Vryheid, Vryheid Privaat Veeartse**

Beef: 2

#### **Eastern Cape**

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

Sheep: 1



**Western Cape****Darling, Tygerberg Dierehospitaal Darling**

Beef: 2

**Oudtshoorn, Ostrimed**

Goat: 1

**Paarl, Paarl Dierehospitaal;**

Sheep: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Lameness/Foot Problems**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.8 (5)	1.7 (6)	1.0 (2)	2.5 (4)	2.8 (6)	1.7 (7)	3.0 (3)	1.6 (9)	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 (3)	1.0 (1)	2.5 (2)	2.7 (3)	1.6 (5)	3.0 (1)	1.3 (4)	2.0 (1)
<b>Dairy</b>					3.0 (1)		3.0 (1)	1.5 (2)	
<b>Sheep</b>	2.0 (1)	1.0 (1)	1.0 (1)	3.0 (1)	3.0 (2)	2.0 (1)	3.0 (1)	2.0 (3)	
<b>Goat</b>		1.5 (2)		2.0 (1)		2.0 (1)			

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

Beef: 2, Sheep: 2

**Ermelo, Môregloed Veterinêre Spreekkamer**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

**Lydenburg, Longtom Dierekliniek**

Beef: 2

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

Beef: 2, Goat: 2

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 1

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

Beef: 3, Sheep: 1, Goat: 1

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

Beef: 1, Sheep: 1

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

Goat: 2

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2
<b>Free State</b>
<b>Bultfontein, Greylingrust Dieresprekkamer</b>
Beef: 2
<b>Excelsior, Weltevrede Dierekliniek</b>
Sheep: 3
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Dairy: 3
<b>Villiers, Wilgepoort Veedienste</b>
Beef: 3, Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 2
<b>Eshowe, Eshowe Veterinary Hospital</b>
Beef: 2, Goat: 2
<b>Newcastle, Ncanduvet Newcastle</b>
Beef: 1
<b>Pietermaritzburg, Veterinary House Hospital</b>
Beef: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 2, Sheep: 2
<b>Eastern Cape</b>
<b>East London, Border Kei veterinary consultants</b>
Beef: 3, Dairy: 3, Sheep: 3
<b>Western Cape</b>
<b>Caledon, Caledon Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Ceres, Ceres Veterinary Hospital</b>
Beef: 1
Bull with sore feet
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 2, Sheep: 2
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Sheep: 2
<b>Paarl, Paarl Dierehospitaal;</b>
Beef: 1
<b>Riversdale, Riversdal Dierekliniek</b>
Dairy: 1
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Beef: 1
<b>Northern Cape</b>
<b>Kuruman, Kuruman Dierekliniek</b>
Beef: 2

Lung infection									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.9 (9)	1.3 (3)		2.7 (3)	2.0 (14)	1.9 (10)	3.0 (1)	2.3 (8)	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>	1.9 (7)	1.0 (1)		2.5 (2)	1.9 (9)	2.0 (5)		3.0 (2)	2.0 (2)
<b>Dairy</b>						1.0 (1)		1.5 (2)	
<b>Sheep</b>	2.0 (2)	1.5 (2)		3.0 (1)	2.2 (5)	2.5 (2)		2.3 (4)	
<b>Goat</b>						1.5 (2)	3.0 (1)		2.0 (1)

#### **Mpumalanga**

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

Beef: 2

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

Beef: 1, Sheep: 1

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

Beef: 2

##### **Hendrina, Mooiplaas Veterinêre Dienste**

Beef: 3, Sheep: 3

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

Beef: 1

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

Beef: 3

##### **Volksrust, Grasslands vet clinic**

Beef: 1

One heifer

#### **Gauteng**

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

Sheep: 1

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

Sheep: 2

##### **Rayton, Rayton Dierekliniek**

Beef: 1

#### **North West**

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

Beef: 3, Sheep: 3

##### **Vryburg, Vryburg Dierehospitaal**

Beef: 2

#### **Free State**

##### **Bethlehem, Bethlehem Animal Hospital**

Beef: 2, Sheep: 2

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

Beef: 2

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

Beef: 2

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

Beef: 2, Sheep: 2

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

Beef: 3, Sheep: 3

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

Beef: 1

##### **Oranjeville, Grasveld Kuddegeseondheid**

Sheep: 2

##### **Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

**Vrede, Vrede Dierehospitaal**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Camperdown, Camperdown Vet Clinic**

Goat: 1

**Dundee, Endumeni Herd health**

Beef: 2, Dairy: 1

**Eshowe, Eshowe Veterinary Hospital**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 3, Sheep: 3

**Eastern Cape**

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 3

**Western Cape**

**Beaufort West, Beaufort Dierekliniek**

Sheep: 2

**Beaufort West, Beaufort West State Vet**

Sheep: 2

Feeding, animals concentrated

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**George, George Animal Hospital**

Sheep: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2, Sheep: 2

**Paarl, Paarl Dierehospitaal;**

Beef: 3

**Northern Cape**


**Kuruman, Kuruman Dierekliniek**

Beef: 2, Goat: 2

**Upington, Upington Veeartsenykliniek**

Beef: 2

Cattle in Askham

Mastitis in general									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	1.5 (4)	1.0 (1)	2.0 (4)	1.5 (6)	2.0 (4)	2.3 (3)	2.5 (8)	

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 (3)	1.0 (1)	1.0 (1)	2.0 (2)	1.3 (3)	2.0 (2)	2.0 (2)	3.0 (1)
<b>Dairy</b>	2.0 (1)	2.0 (1)			2.0 (1)	2.0 (2)	3.0 (1)	2.5 (6)
<b>Sheep</b>	2.0 (1)	1.0 (1)		2.0 (2)	1.5 (2)			2.0 (1)
<b>Goat</b>		2.0 (1)						

#### **Mpumalanga**

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

Beef: 2

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

Beef: 2, Dairy: 2, Sheep: 2

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

Beef: 2

#### **Gauteng**

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

Beef: 1, Dairy: 2, Sheep: 1, Goat: 2

#### **Limpopo**

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

Beef: 1

#### **North West**

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

Beef: 3, Sheep: 3

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

Beef: 1, Sheep: 1

#### **Free State**

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

Beef: 2

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

Beef: 1

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

Sheep: 1

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

Dairy: 2

##### **Villiers, Wilgepoort Veedienste**

Beef: 1, Sheep: 2

#### **Kwazulu-Natal**

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

Dairy: 1

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

Beef: 2, Dairy: 3

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

Beef: 2

Many calves are given supplementation due to udder damage

#### **Eastern Cape**

##### **Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

##### **East London, Border Kei veterinary consultants**

Beef: 3, Dairy: 3

#### **Western Cape**

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

Dairy: 3

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

Beef: 3

**George, George Animal Hospital**

Dairy: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3, Sheep: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

Coliform mastitis (2 cases; Staphylococcus, Streptococcus and Trueperella pyogenes isolated)

## Navel Ill



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

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

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

## Mpumalanga

**Balfour, Balfour Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2

## Gauteng

**Hammanskraal, Themba Animal Clinic**

Beef: 1

**Nigel, Nigel Diere Spreekkamer**

Beef: 1

## Free State

**Kroonstad, Kroonstad Dierehospitaal**

Sheep: 1

## Kwazulu-Natal

**Underberg, Underberg Veterinary Surgery**

Beef: 2

## Western Cape

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

## Red gut (Torsion of the Gut) Sheep



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

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)	
Goat			1.0 (1)						

#### Limpopo

**Modimolle, Kranskop Dierekliniek**

Goat: 1

Boerbok ram

#### Kwazulu-Natal

**Pietermaritzburg, Veterinary House Hospital**

Sheep: 1

#### Western Cape

**Malmesbury, Malmesbury Dierehospitaal**

Sheep: 3

### Trauma [^](#)

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

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

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

#### Mpumalanga

**Bethal, Bethal Dierekliniek**

Sheep: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

#### Free State

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

#### Western Cape

**Paarl, Paarl Dierehospitaal;**

Beef: 2

#### Northern Cape

**Kimberley, Kimberley Dierekliniek**

Beef: 2

Seen at abattoir

Downer									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (2)		2.0 (2)	2.0 (8)	2.3 (3)		2.5 (2)	2.0 (1)

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

Beef	1.7 (3)	2.0 (2)		2.0 (1)	1.9 (7)	2.3 (3)			2.0 (1)
Dairy				2.0 (1)				3.0 (1)	
Sheep					3.0 (1)			2.0 (1)	

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

Beef: 2

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

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

Beef: 2

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

Beef: 2

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

Dairy: 2

**Vryburg, Vryburg Dierehospitaal**

Beef: 2

**Free State****Bethlehem, Union Street Animal Consulting Rooms**

Beef: 1

**Dewetsdorp, Platkop Dierekliniek**

Beef: 2

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 1

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Villiers, Wilgepoort Veedienste**

Beef: 3, Sheep: 3

**Warden, Warden Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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



## Camperdown, Camperdown Vet Clinic

**Estcourt, Estcourt Vet Clinic**

## Western Cape

Dairy: 3, Sheep: 2

## Kuruman, Kuruman Dierkliniek

Other	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

Sheep	1.0 (1)	3.0 (1)
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## Bela Bela, Artemis Veterinary Services

## Dorper rectal prolaps

**Bloemfontein, University Free State**

## Eastern Cape

Sheep: 3

Immune incompetence in sheep more than 1000

## Ceres, Ceres Veterinary Hospital

## Bull with orchitis

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

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

**North West****Vryburg, Vryburg Dierehospitaal**

Beef: 3

**Western Cape****Paarl, Paarl Dierehospitaal;**

Beef: 3, Sheep: 1

**Northern Cape****De Aar, De Aar Veterinary Clinic**

Sheep: 2

**Kimberley, Kimberley Dierekliniek**

Beef: 1

Seen at abattoir

**Yellow cascades at abattoir**

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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**Western Cape****Paarl, Paarl Dierehospitaal;**

Beef: 3

**Metabolic Diseases****Acidosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.0 (1)	1.0 (1)		2.4 (5)	1.5 (2)		2.0 (5)	3.0 (1)

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

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

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

Beef: 2, Sheep: 2

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

Sheep: 1

**Limpopo****Mokopane, Bundu Veterinary Services**

Beef: 1									
Free State									
Bultfontein, Greylingsrust Dierespreekkamer									
Sheep: 3									
Hoopstad, Kameeldoring Dierekliniek									
Beef: 2									
Villiers, Wilgepoort Veedienste									
Beef: 3									
Warden, Warden Dierekliniek									
Beef: 2									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Dundee, Endumeni Herd health									
Dairy: 2									
Estcourt, Estcourt Vet Clinic									
Sheep: 1									
Western Cape									
Malmesbury, Malmesbury Dierehospitaal									
Dairy: 3, Sheep: 2									
Piketberg, Piketberg Dierehospitaal									
Sheep: 2									
Acidosis in sheep on harvested oats fields									
Riversdale, Riversdal Dierekliniek									
Dairy: 2									
Stellenbosch, Stellenbosch Animal Hospital									
Dairy: 1									
Northern Cape									
Colesberg, Karoo Veterinary Hospital									
Sheep: 3									
Displaced abomasum									<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)	
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)		2.0 (1)	
Kwazulu-Natal									
Dundee, Endumeni Herd health									
Dairy: 2									
Western Cape									
Malmesbury, Malmesbury Dierehospitaal									
Dairy: 2									
Ketosis									<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)	1.8 (4)	2.0 (1)	2.5 (2)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported					
<b>Dairy</b>				2.0 (1)	3.0 (1)
<b>Sheep</b>		2.0 (1)	1.8 (4)		2.0 (1)
<b>Goat</b>		2.0 (1)			

#### Limpopo

##### Bela-Bela, Warmbad Dierekliniek

Sheep: 2, Goat: 2

#### Free State

##### Hoopstad, Hoopstad Dierekliniek

Sheep: 2

##### Senekal, Senekal Dierekliniek

Sheep: 1

##### Villiers, Wilgepoort Veedienste

Sheep: 2

##### Winburg, Winburg Dierekliniek

Sheep: 2

#### Kwazulu-Natal

##### Dundee, Endumeni Herd health

Dairy: 2

#### Western Cape

##### Malmesbury, Malmesbury Dierehospitaal

Dairy: 3, Sheep: 2

### Milk Fever ^

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

#### North West

##### Brits, Zodiac Dierekliniek

Dairy: 2

#### Free State

##### Warden, Warden Dierekliniek

Beef: 1

#### Western Cape

##### Malmesbury, Malmesbury Dierehospitaal

Dairy: 3, Sheep: 2

## Reproductive diseases

### Dystocia (Difficult Births)



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.6 (10)	2.0 (6)	1.6 (5)	2.3 (11)	2.2 (22)	2.1 (13)	1.8 (9)	2.1 (15)	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	1.9 (7)	2.2 (5)	1.6 (5)	2.4 (7)	2.4 (17)	2.2 (9)	1.8 (8)	2.2 (6)	2.0 (1)
Dairy					1.0 (1)	2.0 (1)		2.1 (7)	
Sheep	1.0 (3)	1.0 (1)		2.0 (4)	1.8 (4)	2.0 (1)	2.0 (1)	1.5 (2)	
Goat						1.5 (2)			

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1

##### Bethal, Bethal Dierekliniek

Beef: 1, Sheep: 1

##### Grootvlei, Grootvlei Dierekliniek

Beef: 3, Sheep: 1

##### Lydenburg, Longtom Dierekliniek

Beef: 2

##### Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

##### Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

##### Nelspruit, Nelspruit Animal Hospital

Beef: 1

#### Gauteng

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

##### Hammanskraal, Themba Animal Clinic

Beef: 3

##### Nigel, Nigel Diere Spreekkamer

Beef: 1

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

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

Beef: 3

##### Rayton, Rayton Dierekliniek

Beef: 2

#### Limpopo

##### Bela-Bela, Warmbad Dierekliniek

Beef: 3

**Modimolle, Kranskop Dierekliniek**

Beef: 1

Farmers report many difficult calvings

**Mokopane, Bundu Veterinary Services**

Beef: 1

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

**Tzaneen, ZZ2 Farm Practice**

Beef: 1

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

Beef: 2, Sheep: 1

**Brits, Zodiac Dierekliniek**

Beef: 1, Sheep: 1

**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3, Sheep: 3

**Schweizer-Reneke, Buffeldoorn Dierekliniek SR**

Beef: 2

Caesareans - 2 cows

**Stella, Stella Dierekliniek**

Beef: 3

**Vryburg, Molopo Dierekliniek**

Beef: 3

**Free State****Bethlehem, Bethlehem Animal Hospital**

Beef: 3

**Bethlehem, Union Street Animal Consulting Rooms**

Beef: 3

**Bloemfontein, Dr Stephan Wessels**

Beef: 2

**Bultfontein, Greylingrust Dierespreekkamer**

Beef: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 1

**Ficksburg, Oosvrystaat Dier Produkte**

Dairy: 1

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Hoopstad, Kameeldoring Dierekliniek**

Beef: 2, Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2, Sheep: 1

**Parys, Parys Dierehospitaal**

Beef: 2

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Senekal, Senekal Dierekliniek**

Beef: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 1

**Vrede, Vrede Dierehospitaal**

Beef: 3

**Warden, Warden Dierekliniek**

Beef: 3

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Bergville, Tugela Vet Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Camperdown, Camperdown Vet Clinic**

Goat: 1

**Dundee, Endumeni Herd health**

Beef: 2

**Eshowe, Eshowe Veterinary Hospital**

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Beef: 3, Dairy: 2

**Newcastle, Ncanduvet Newcastle**

Beef: 3

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

**Eastern Cape**

**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

**Alexandria, Riverview Trading Vet Consulting Services**

Beef: 2

**Aliwal North, Hertzogbrug Dierekliniek**

Beef: 1, Sheep: 2

**East London, Border Kei veterinary consultants**

Beef: 2

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

Beef: 1

**Humansdorp, Humansdorp Veterinary Clinic**

Beef: 2

**Steynsburg, Steynsburg Dierehospitaal**

Beef: 2

Uterine inertia 1; double muscling gene (4 cases)

**Uitenhage, Uitenhage Dierehospitaal**

Beef: 2

**Western Cape**

**Caledon, Overberg Veterinary Hospital**

Beef: 3, Dairy: 2

**Ceres, Ceres Veterinary Hospital**

Sheep: 1

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Malmesbury, Bergzicht Dierehospitaal**

Dairy: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2, Sheep: 2

**Oudtshoorn, Oudtshoorn Dierekliniek**

Beef: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 2

**Swellendam, Swellendam Dierehospitaal**

Beef: 2, Dairy: 2

**Worcester, Durban Straat Dierekliniek Worcester**

Beef: 2

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

Beef: 2

One mummified foetus

**Endometritis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (4)			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					1.7 (3)				
Dairy					3.0 (1)			2.5 (2)	

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

Dairy: 3

**Villiers, Wilgepoort Veedienste**

Beef: 1

**Warden, Warden Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

**Western Cape****Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Metritis**



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			2.2 (5)	2.0 (4)		2.0 (2)	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	1.0 (1)			2.0 (3)	2.0 (2)		1.0 (1)	3.0 (1)	
Dairy				2.0 (1)	3.0 (1)		3.0 (1)	2.5 (2)	
Sheep				3.0 (1)	1.0 (1)				

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 1

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

##### Vryburg, Molopo Dierekliniek

Beef: 2, Dairy: 2

#### Free State

##### Bloemfontein, Dr Stephan Wessels

Beef: 2

##### Senekal, Senekal Dierekliniek

Dairy: 3

##### Villiers, Wilgepoort Veedienste

Sheep: 1

##### Winburg, Winburg Dierekliniek

Beef: 2

#### Eastern Cape

##### Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

##### Kareedouw, Tenax Vet Clinic

Dairy: 3

32 metritis

#### Western Cape

##### Darling, Tygerberg Dierehospitaal Darling

Beef: 3

##### Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

##### Swellendam, Swellendam Dierehospitaal

Dairy: 2

Pyometra

### Poor conception



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>	1.7 (3)		1.0 (1)	2.0 (5)	2.5 (2)	2.0 (2)	2.2 (5)
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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>	1.7 (3)		1.0 (1)	2.3 (4)	2.5 (2)	1.0 (1)	
<b>Dairy</b>				1.0 (1)			2.3 (3)
<b>Sheep</b>						3.0 (1)	2.0 (2)

#### **Mpumalanga**

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

Beef: 1

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

Beef: 2

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

Beef: 2

#### **North West**

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

Beef: 1

#### **Free State**

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

Dairy: 1

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

Beef: 3

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

Beef: 1

##### **Warden, Warden Dierekliniek**

Beef: 2

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

Beef: 3

#### **Kwazulu-Natal**

##### **Eshowe, Eshowe Veterinary Hospital**

Beef: 2

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

Beef: 3

Early embrional deaths included

#### **Eastern Cape**

##### **Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

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

Sheep: 3

Poor fertility, post-scan fetal losses, neonatal mortalities, more than 1 000

#### **Western Cape**

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

Dairy: 3, Sheep: 3

##### **Oudtshoorn, Ostrimed**

Sheep: 1

##### **Riversdale, Riversdal Dierekliniek**

Dairy: 2

##### **Swellendam, Swellendam Dierehospitaal**

Dairy: 2

## Ovarian cysts

Retained afterbirth									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (4)	1.3 (4)	2.0 (1)	2.7 (3)	1.7 (6)	1.4 (5)	1.0 (1)	2.2 (5)	1.0 (2)

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

Beef	1.3 (3)	1.3 (3)	2.0 (1)	2.5 (2)	1.7 (6)	1.4 (5)		2.0 (2)	1.0 (1)
Dairy		1.0 (1)					1.0 (1)	2.3 (3)	
Sheep	1.0 (1)			3.0 (1)					1.0 (1)

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

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2, Sheep: 1

**Nelspruit, Nelspruit Animal Hospital**

Beef: 1

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

Dairy: 1

**Hammanskraal, Themba Animal Clinic**

Beef: 2

**Nigel, Nigel Diere Spreekkamer**

Beef: 1

**Rayton, Rayton Dierekliniek**

Beef: 1

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

Beef: 2

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

Beef: 3, Sheep: 3

**Vryburg, Molopo Dierekliniek**

Beef: 2

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

Beef: 2

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 1

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2

**Villiers, Wilgepoort Veedienste**

Beef: 2

**Warden, Warden Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Newcastle, Ncanduvet Newcastle**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

**Pongola, Pongola Animal Clinic**

Beef: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 2

**Eastern Cape****East London, Border Kei veterinary consultants**

Dairy: 1

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

Dairy: 1

**Caledon, Overberg Veterinary Hospital**

Beef: 1

**Darling, Tygerberg Dierehospitaal Darling**

Beef: 3

**Malmesbury, Bergzicht Dierehospitaal**

Dairy: 3

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Northern Cape****Kuruman, Kuruman Dierekliniek**

Beef: 1, Sheep: 1

**Sheath Prolaps**

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

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

Beef	1.0 (2)	1.0 (1)		1.0 (1)	1.7 (3)	1.0 (2)			
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**Mpumalanga****Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Piet Retief, Pets Vet Hospital**

Beef: 1

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

Beef: 1

Preputial abscess and prolaps

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

Beef: 1

**Free State**

**Hoopstad, Hoopstad Dierekliniek**

Beef: 2

**Senekal, Senekal Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

**Uterus prolaps**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.0 (2)	2.0 (1)	2.0 (1)	1.9 (11)	1.0 (3)		1.4 (5)	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)	2.0 (1)	1.9 (7)	1.0 (3)		1.0 (1)	1.0 (1)
<b>Dairy</b>		1.0 (1)						1.3 (3)	
<b>Sheep</b>					2.0 (4)			2.0 (1)	

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

Dairy: 1

**Hammanskraal, Themba Animal Clinic**

Beef: 1

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

Beef: 2

**North West****Vryburg, Molopo Dierekliniek**

Beef: 2

**Free State****Bultfontein, Greylingrust Dieresprekkamer**

Sheep: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 2, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 1, Sheep: 1

**Reitz, Riemland Dierehospitaal**

Beef: 2

**Senekal, Senekal Dierekliniek**

Beef: 2

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

**Warden, Warden Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 1

**Dundee, Endumeni Herd health**

Beef: 1

**Pietermaritzburg, Veterinary House Hospital**

Beef: 1

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

Dairy: 2, Sheep: 2

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 1

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

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

Beef: 1

**Vaginal (Cervical) prolaps**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (1)	1.9 (11)	1.5 (4)		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>	1.5 (2)	2.0 (1)	1.0 (1)	2.0 (1)	1.6 (8)	1.5 (4)		3.0 (1)	
<b>Dairy</b>								1.0 (1)	
<b>Sheep</b>					2.7 (3)			2.0 (1)	

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

Beef: 1

**Lydenburg, Longtom Dierekliniek**

Beef: 2

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

Beef: 2

**Limpopo****Mokopane, Bundu Veterinary Services**

Beef: 1

**North West****Vryburg, Molopo Dierekliniek**

Beef: 2

**Free State****Excelsior, Weltevrede Dierekliniek**

Beef: 1									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3, Sheep: 3									
Kroonstad, Kroonstad Dierehospitaal									
Beef: 1, Sheep: 2									
Senekal, Senekal Dierekliniek									
Beef: 2									
Villiers, Wilgepoort Veedienste									
Beef: 2, Sheep: 3									
Vrede, Vrede Dierehospitaal									
Beef: 1									
Warden, Warden Dierekliniek									
Beef: 1									
Winburg, Winburg Dierekliniek									
Beef: 2									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 2									
Dundee, Endumeni Herd health									
Beef: 2									
Mtubatuba, Mtubatuba Animal Clinic									
Beef: 1									
Pongola, Pongola Animal Clinic									
Beef: 1									
Western Cape									
Caledon, Overberg Veterinary Hospital									
Sheep: 2									
Malmesbury, Groenkloof Dierekliniek									
Beef: 3									
Before and after calving - genetic									
Malmesbury, Malmesbury Dierehospitaal									
Dairy: 1									
Climatical Cause									
Cold exposure									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.5 (2)	2.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef						2.0 (1)			
Sheep					2.5 (2)				
Free State									
Hoopstad, Kameeldoring Dierekliniek									
Sheep: 2									
Kroonstad, Kroonstad Dierehospitaal									
Sheep: 3									

**Kwazulu-Natal****Camperdown, Camperdown Vet Clinic**

Beef: 2

**Drought**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**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)

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

Beef: 3

Borehole water went extremely salty and hard due to low levels and cattle started aborting/still births. Tested water: unfit for consumption, negative calcium and for leptospirosis, well vaccinated herd.

**Heat stress**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**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)

**Eastern Cape****Alexandria, Alexandria Platteland Spreekkamer**

Beef: 3

Heat stroke

**Lightning**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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**Average**

1.5 (2)

1.8  
(8)

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**

1.5 (2)

1.8  
(8)

1.7 (3)

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

Beef: 1

**Lydenburg, Lydenburg Dieresprekkamer**

Beef: 2



<b>Free State</b>
<b>Bloemfontein, Dr Stephan Wessels</b>
Beef: 2
<b>Dewetsdorp, Platkop Dierekliniek</b>
Beef: 2
<b>Memel, Memel Veterinary Clinic</b>
Beef: 2
<b>Oranjeville, Grasveld Kuddegeseondheid</b>
Beef: 2
<b>Reitz, Riemland Dierehospitaal</b>
Beef: 1
<b>Villiers, Wilgepoort Veedienste</b>
Beef: 1
<b>Warden, Warden Dierekliniek</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Dundee, Endumeni Herd health</b>
Beef: 2
<b>Newcastle, Ncanduvet Newcastle</b>
Beef: 2
<b>Vryheid, Vryheid Privaat Veeartse</b>
Beef: 1

<b>Frozen to death</b>	<a href="#">^</a>
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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>Goat</b>		2.0 (1)
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<b>Free State</b>
<b>Senekal, Senekal Dierekliniek</b>
Goat: 2

## Residues

<b>Drug residues</b>	<a href="#">^</a>
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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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<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 1									
<b>Non specific diseases</b>									
<b>Cause of death not established</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)				
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>Free State</b>									
<b>Villiers, Wilgepoort Veedienste</b>									
Beef: 2									
<b>Dermatosparaxis</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>		1.0 (1)			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)			2.0 (1)				
<b>Sheep</b>									1.0 (1)
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 1									
<b>Free State</b>									
<b>Winburg, Winburg Dierekliniek</b>									
Beef: 2									
<b>Northern Cape</b>									
<b>Kimberley, Staatsveeartse Groep NC</b>									
Sheep: 1									
Springbok area									
<b>Genetic disorders</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)	1.5 (2)
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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)	1.5 (2)
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#### Limpopo

##### Tzaneen, ZZ2 Farm Practice

Beef: 2

#### Free State

##### Senekal, Senekal Dierekliniek

Beef: 1

##### Winburg, Winburg Dierekliniek

Beef: 2

#### Preditors



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)		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)		1.0 (1)		2.0 (1)				
<b>Sheep</b>					3.0 (1)				

#### Mpumalanga

##### Lydenburg, Longtom Dierekliniek

Beef: 2

#### Limpopo

##### Tzaneen, ZZ2 Farm Practice

Beef: 1

#### Free State

##### Oranjeville, Grasveld Kuddegeseondheid

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 (2)	2.0 (1)			2.4 (9)	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>	2.0 (1)			2.5 (4)	2.0 (2)
<b>Dairy</b>		2.0 (1)		2.0 (1)	
<b>Sheep</b>	2.0 (1)			2.7 (3)	2.0 (1)
<b>Goat</b>				2.0 (1)	

#### **Mpumalanga**

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

Beef: 2, Sheep: 2

#### **Gauteng**

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

Dairy: 2

#### **Free State**

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

Beef: 3, Sheep: 3

##### **Oranjeville, Grasveld Kuddegeseondheid**

Beef: 2, Sheep: 3

##### **Villiers, Wilgepoort Veedienste**

Beef: 2, Dairy: 2, Sheep: 2, Goat: 2

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

Beef: 3

#### **Kwazulu-Natal**

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

Beef: 2

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

Beef: 2, Sheep: 2

## **Trauma**



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (2)	1.0 (1)	1.0 (1)		1.7 (3)			1.5 (2)	

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

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

#### **Mpumalanga**

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

Beef: 1, Sheep: 1

#### **Gauteng**

##### **Nigel, Nigel Diere Spreekkamer**

Beef: 1

### Limpopo

**Mokopane, Bundu Veterinary Services**

Beef: 1

Metacarpus fracture, other trauma

### Free State

**Bloemfontein, University Free State**

Dairy: 1

**Villiers, Wilgepoort Veedienste**

Beef: 2, Sheep: 2

### Western Cape

**Ceres, Ceres Veterinary Hospital**

Beef: 1

One cow with broken leg

**Paarl, Paarl Dierehospitaal;**

Beef: 2

## Veld fires



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

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

Beef	1.0 (1)				3.0 (2)				
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### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Beef: 1

### Free State

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3

**Winburg, Winburg Dierekliniek**

Beef: 3

## Traumatic Reticulo-pericarditis



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

### Mpumalanga

**Grootvlei, Grootvlei Direklyniek**

Beef: 2

**Gauteng****Bapsfontein, Bapsfontein Direhospitaal**

Dairy: 1

**Free State****Winburg, Winburg Direklyniek**

Beef: 2

**Eastern Cape****Alexandria, Alexandria Platteland Spreekkamer**

Beef: 1

**East London, Border Kei veterinary consultants**

Dairy: 1

**Western Cape****Malmesbury, Bergzigt Direhospitaal**

Dairy: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

**Swellendam, Swellendam Direhospitaal**

Beef: 1

**Northern Cape****Kathu, Kathu Direklyniek**

Beef: 1