

# **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**

## **February 2018**

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

**Click on Disease Reports**

**The following practices and laboratories (116) submitted reports during February 2018:**

### **Mpumalanga (10)**

Balfour – Dr. Louis van Jaarsveld  
Bethal – Dr. Hardus Pieters  
Ermelo – Drs. Potgieter and Steinberg  
Grootvlei – Dr. Neels van Wyk  
Karino – Dr. Silke Pfitzer  
Malalane – Drs. Van Sittert and Van Sittert  
Middelburg –Drs. Malan, Erasmus and Bernitz  
Nelspruit – Dr. André Beytel  
Standerton – Dr. Kobie Kroon  
Volksrust – Drs. Watson, Solomon and Blaauw

### **Gauteng (7)**

Bapsfontein – Drs. Olivier, Engelbrecht and Greyling  
Bronkhorstspuit – Drs. De Bruin, De Bruin, Rudolph and Slabber  
Hammanskraal – Dr. Hentie Engelbrecht  
Magaliesburg – Dr. Ryan Jeffery  
Onderstepoort Veterinary Academic Hospital – Proff. Annandale, Shakespear, Holm, Pettey and Drs, Fitte, Grobler, Hamman, Koeppel, Leask, Mabu, Marufu, Mokoele, O'Dell, Tshuma and Van der Leek  
Pretoria – Dr. Hanneke Pienaar  
Vanderbijlpark – Dr. Kobus Kok

### **Limpopo (7)**

Bela-Bela – Dr. Nele Sabbe  
Makhado (Louis Trichardt)– Drs. Harris, Klopper and Jacobs

Mokopane (Potgietersrust)- Dr. Henk Visser  
Polokwane (Pietersburg) – Drs. Watson, Viljoen, Jansen van Vuuren, Van Rooyen, Snyman and Cremona  
Tzaneen – Drs. Cordier and van der Berg  
Vaalwater – Dr. Hampie van Staden  
Vaalwater – Dr. Annemieke Müller

### **North West (9)**

Christiana - Dr. Pieter Nel  
Klerksdorp – Drs. Coetzee and Venter  
Klerksdorp – Drs. Van den Berg, Van den Berg, Theron and Geral  
Leeudoringstad – Dr. Ian Jonker  
Lichtenburg – Dr. Nelmarie Krüger-Rall  
Rustenburg – Drs. Grobler, Sparks, Van Egdom, Van Rooyen, Goosen and Van Rensburg  
Stella - Dr. Magdaleen Vossler  
Ventersdorp/ Koster –Drs. Benadé and Van der Merwe  
Vryburg – Dr. Jurie Kritzinger

### **Free State (23)**

Bloemfontein – Dr. Stephan Wessels  
Bultfontein – Dr. Santjie Pieterse  
Clocolan – Drs. Wasserman and Basson  
Dewetsdorp – Dr. Marike Badenhorst  
Ficksburg – Drs. Kotzé and Coetzer  
Frankfort - Drs. Lessing, Cilliers and Janse van Rensburg  
Hertzogville – Dr. Nico Hendrikz  
Hoopstad – Dr. Kobus Pretorius  
Kroonstad – Drs. Daffue, Eksteen, Van Zyl and Van der Walt  
Ladybrand/Excelsior - Dr. De Vos and Nel  
Memel – Drs. Nixon and Nixon  
Parys – Drs. Wessels and Wessels  
Philippolis – Dr. Stephan van Niekerk  
Reitz - Dr. Murray Smith  
Reitz – Dr. Schabort Froneman  
Senekal – Dr. Jan Blignaut  
Smithfield – Dr. Nienke van Hasselt  
Trompsburg – Dr. Wyn Irwin  
Viljoenskroon – Dr. Johan Kahts  
Villiers – Drs. Hattingh and Hauptfleisch  
Wesselsbron – Dr. Johan Jacobs  
Winburg – Drs. Albertyn and Albertyn  
Zastron – Drs. Troskie and Strauss

### **KwaZulu-Natal (12)**

Bergville - Dr. Ariana Shepherd

Bergville – Dr. Jubie Muller  
Camperdown – Dr. Anthony van Tonder  
Dundee – Drs. Marais, Fynn and Reynolds  
Estcourt – Drs. Turner, Tedder, Taylor, Tratschler, Van Rooyen and Alwar  
Mooi River – Drs. Still, Reisinger, Fowler and Hartley  
Mtubatuba – Dr. Trever Viljoen  
Newcastle – Dr. Barry Rafferty  
Pietermaritzburg – Dr. Phillip Kretzmann  
Pongola – Dr. Heinz Kohrs  
Underberg - Drs. Collins, King and Delaney  
Vryheid – Drs. Theron and Theron

### **Eastern Cape (16)**

Alexandria - Dr. Johan Olivier  
Aliwal North – Drs. Troskie and Strauss  
Bathurst – Dr. Jane Pistorius  
Cradock – Dr. Frans Erasmus  
Graaff- Reinet - Dr. Roland Larson  
Graaff-Reinet – Drs. Hobson, Strydom and Hennesy  
Grahamstown – Drs. Mendes and Dreyer  
Humansdorp – Drs. Van Niekerk, Janse Van Vuuren and Davis  
Jeffreys Bay – Drs. Lategan, Hoek and McFarlane  
Kareedouw – Dr. Marten Bootsma  
Middelburg, Steynsburg, Barkly East – Drs. Van Rooyen and Viljoen  
Port Alfred – Dr. Leon de Bruyn  
Queenstown – Drs. Du preez, Godley, Klopper, Jansen van Vuuren, De Klerk and Catherine  
Stutterheim - Dr. Dave Waterman  
Uitenhage – Drs. Mulder and Krüger  
Witelsbos – Dr. Elmien Kotze

### **Western Cape (18)**

Beaufort West - Drs. Pienaar and Grobler  
Caledon – Drs. Retief, Coetzer and Jansen  
Caledon – Drs. Louw and Viljoen  
Ceres – Drs. Pieterse, Wium, De Villiers and Scheepers  
Darling – Drs. Van der Merwe, Adam and Senekal  
George - Drs. Strydom, Truter and Pettifer  
Heidelberg – Dr. Albert van Zyl  
Malmesbury – Dr. Otto Kriek  
Malmesbury – Dr. Markus Fourie  
Malmesbury – Dr. Andries Lesch  
Oudtshoorn – Dr. Glen Carlisle  
Piketberg – Dr. André van der Merwe  
Plettenberg Bay – Dr. André Reitz  
Riversdale – Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch – Dr. Alfred Kidd  
Swellendam – Dr. Jacques Malan  
Vredenburg – Dr. Izak Rust  
Wellington – Drs. Van Zyl and Louw

#### **Northern Cape (6)**

Calvinia – Dr. Bertus Nel  
Colesberg – Drs. Rous and Rous  
De Aar – Dr. Donald Anderson  
Kathu – Dr. Jan Vorster  
Postmasburg – Dr. Boeta van der Merwe  
Upington – Drs. Vorster and Visser

#### **Feedlots (2)**

Drs. Morris and Du Preez  
Dr. Andy Hentzen

#### **Laboratory reports (6)**

Dr. Marijke Henton - Vetdiagnostix, Johannesburg  
Dr. Alan Fisher – Queenstown Provincial laboratory  
Dr. Last, Bosch and Williams – Vetdiagnostix, Pietermaritzburg  
Dr. Liza du Plessis – Idexx, Onderstepoort  
Dr. Emily Lane – National Zoological Gardens and Veterinary Faculty  
Dr. Mark Chimes – Dairy Standards, George

### **Key Messages**

**Insect transmitted diseases (lumpy skin disease, three day stiff sickness (ephemeral fever), blue tongue) are reported from many areas of the country. This should not have been the case if animals were vaccinated before the rainy season (August). No case of Rift Valley fever was reported. We are sitting on a time bomb as many animals have never been vaccinated and most flocks and herds are highly susceptible.**

**A rabies outbreak, where 29 cattle died, were reported from the Stella area. Cattle were on an intensive grazing system and rabid jackals were most probably the cause of the outbreak. At all times farmers and their workers should have this deadly disease on their minds when animals behave in a strange way.**

**Cryptosporidiosis, coccidiosis, *E. coli*, rota and corona viruses are still causing serious disease outbreaks on many farms. It is so important to follow biosecurity measures and good hygiene practices.**

**Tick transmitted diseases (African and Asiatic red water, anaplasmosis and lumpy skin disease) were responsible for numerous mortalities.**

**Have you vaccinated all your heifers between 4 and 8 months against brucellosis?**

**Most of these diseases mentioned above can be prevented if a good management programme is followed. Contact your veterinarian to update your animal health programme.**

**Our hearts go out to farmers in the drought stricken areas and we pray that relief will soon be coming!**

## **MEDIA RELEASE**

### **LISTERIOSIS OUTBREAK IN SOUTH AFRICA**

The Red Meat Industry Forum (RMIF) represents the entire red meat value chain from the Primary Producer through to the Consumer and records its concern that lives have been lost as a result of the outbreak of Listeriosis. The RMIF has also noted with concern the media statement released by the Department of Health and the National Institute of Communicable Diseases (NICD) on 4 March 2018 which essentially concluded that the present outbreak was traced to a food production facility in Polokwane whilst raising further concerns about a facility in Germiston.

At the outset we must point out that food safety remains at the heart of the Red Meat Industry and the RMIF would like to assure the Consumer that everything possible is being done with the utmost urgency to ensure that our Consumer's personal health and well-being is protected not only as a matter of routine, but with increased vigilance.

Unfortunately the aforesaid media release is devoid of detail and this lack of detail has resulted in misinformation which is not only detrimental to the Consumer, but also the South African Red Meat Industry. In this regard, the average Consumer is being led into a *Listeria* hysteria which is having unfortunate consequences for families who rely on processed meat as their source of protein.

*Listeria monocytogenes* is the primary cause of the illness called listeriosis. This bacterium is widely distributed in nature and has been found in soil, water, sewage, mud, silage and decaying vegetation. It has been isolated from humans, a wide variety of animals and birds, animal products, fresh produce such as vegetables and fruit, food packaging and processing environments. The RMIF is therefore of the opinion that there is no single, simple answer as other recent cases in Australia have emanated from the consumption of melons; with maybe more virulent *Listeria* strains emerging.

The RMIF and its member organizations, including the South African Meat Processors Association (SAMPA), representing the meat processing and related sectors, are deeply concerned that the entire processed meat industry has been implicated without justification. The devastating consequences emanating from the media coverage thus far as a result of the Minister's media release has had far reaching and catastrophic impact on the processed meat industry and the Red Meat Industry in its entirety.

Consequently the RMIF has requested all relevant information relating to the tests conducted by the National Department of Health and the NICD as referred to in the media release to determine the exact nature and ambit of the testing conducted.

The RMIF had to drag Government to Court on several occasions to implement Independent Meat Inspection Services, which should have been adopted some 18 years ago in terms of the Meat Safety Act, 2000. It was only under the threat of contempt of Court that Government did exceed to the RMIF's demands to implement Independent Meat Inspection Services. The outbreak has emphasized the responsibility of the Red Meat Industry together with other food industries to provide for proper and improved hygiene during the production, processing, packing and preparation of red meat and

red meat products. Red Meat Industry stakeholders are closely engaging the relevant authorities to improve microbiological criteria, processes and standards. This is based on key learning currently developing and taking coordinated actions in all sectors of the red meat value chain relating to food safety activities to ensure that safe food is provided to the Consumer.

Whilst Industry is responsible for producing food that is safe for human consumption, it is also the responsibility of Consumers not to content themselves, that the only contamination can come from the facilities implicated, but to adopt basic hygienic practices when buying, transporting food home, preparing and storing food to protect their health and to ensure that cross contamination does not occur between cooked and raw products or from human hands and equipment. *Listeria* presents a particular concern in respect to food handling, because it can multiply at refrigerator temperatures. During the processing of livestock to meat at the abattoir, particular attention is given to slaughter procedures, personnel hygiene and sterilization of equipment to minimize bacterial contamination during this process. Furthermore, meat inspection of each animal and carcass ensure the health of the animal and removal of any possible contamination that might have occurred. Microbiological testing of water, product, contact surfaces and hands is a prerequisite at a registered abattoir in terms of the Meat Safety Act, 2000 and supporting regulations.

It is therefore imperative that Consumers ensure that the meat they purchase is sourced only from registered abattoirs that have an Independent Meat Inspection Service and that once purchased the cold chain is maintained at all times; as well as to avoid eating raw or under cooked meat products. Various experts have confirmed that microbiological analysis of fresh meat is of lesser consequence and risk to the Consumer and that more attention should be given to ready-to-eat products that are not subject to heat treatment in its preparation.

The Foodstuffs, Cosmetics and Disinfectants Act, 1976 under the mandate of the Department of Health states that the sale, manufacture and importation of food that is unfit for human consumption is prohibited, but the Act should be supported by the appropriate regulations. As things stand there are no regulated requirements for the testing of *Listeria monocytogenes* in ready-to-eat foods in South Africa. SAMPA members adhere to all guidelines of the Department including the current SANS885 standard, a national compositional and microbiological standard which forms the basis for Consumer protection, health and safety in the meat processing industry.

The Red Meat Industry Forum members together with the South African Meat Processors Association remain committed to strengthening the national food control systems to ensure that healthy, nutritious and safe South African red meat and red meat products are sustainably supplied to the Consumer and again pledges its full support to the competent authority and its ongoing investigation. The RMIF also urges for close cooperation between the respective departments in establishing food safety guidelines and to utilize the opportunities to interact with Industry on the forums provided. All industry stakeholders are encouraged to review and strengthen their hygiene management systems to provide the Consumer with the peace of mind to offer his/her family the product of choice which is red meat.

#### **The World Health Organization's five keys to food safety:**

Keep clean. Wash your hands before handling food and often during food preparation.

Separate raw and cooked food. If you are handling or storing raw food, do not touch already cooked food unless you have already washed your hands and food preparation utensils.

Ensure that working surfaces are cleaned before using for different food types.

Cook food thoroughly. Food that does not usually need cooking before eating should be washed thoroughly with clean running water.

Keep food at safe temperatures.

Use safe water for domestic use at all times or boil before use.

*Issued by*

*Issued by*

Dave Ford

Chairman

Red Meat Industry Forum

*On behalf of the Red Meat Industry*

Nadine Naylor

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### ***Listeria* infections in dogs and cats**

Cases of *Listeria* infections in animals in South Africa are uncommonly encountered, and on the few occasions when they do occur, the illness is usually in cattle and sheep. *Listeria* infections in dogs and cats are very rare, and only a few cases have been reported world-wide. As far as it is known, it has never been reported from dogs or cats in South Africa.

Natural infection usually results from the ingestion of contaminated food. It appears as if stomach acid confers a degree of inhibition on infection rates in man, and this may also be so for carnivores.

*Listeria* can be carried in the intestinal tract of dogs without them showing any apparent illness. A Japanese study showed that fewer than 1% of healthy dogs and no cats were carriers.

When the rare cases of listeriosis occur in dogs and cats, it is usually associated with the ingestion of contaminated meats and meat by-products. Animals with a depressed immune system are more likely to become infected. Infected dogs may show signs of fever, diarrhoea and vomiting. Further signs such as septicaemia, encephalitis and abortion are infrequently encountered.

*Listeria* is susceptible to commonly used antibiotics such as penicillin and ampicillin, and they are the antibiotics of choice. Tetracycline and trimethoprim-sulphonamide are also effective. *Listeria* is intrinsically resistant to cephalosporins. *Listeria* is susceptible to pasteurization and boiling.

Concern has been expressed in cases where dogs and cats have been fed the processed meats that have been implicated in the current South African outbreak. It is unlikely that dogs and cats will become ill, but if there is any concern about possible infection, a veterinarian should examine the affected animal. Hygienic measures such as hand washing after handling animals and before food

preparation is crucial. Any skin wounds should be protected from contamination when handling possibly infected animals and items. Gloves should be used when cleaning up faeces.

Feeding possibly affected products to dogs and cats as a way of disposing of unwanted products should be discouraged. The transport and storage of possibly infected items, poses a risk to people handling such items and may spread the infection to other, previously uncontaminated, sites.

Written by:

Dr. Marijke Henton, Bacteriologist, Vetdiagnostix (henton@vetdx.co.za)

**At the following link information needed to educate cattle owners and consumers of unpasteurised dairy products regarding brucellosis are available..**

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

**Translations in the major languages regarding the 5 core facts on bovine brucellosis are available at the following link:**

<http://nahf.co.za/translations-for-bovine-brucellosis-5-core-facts-and-a-dozen-things/>

**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 (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)

[Vra vir Faffa](#)

Click on: **Indeks van antwoorde** where more than 4 000 answers can be sourced on animal health.

Click on Beeste

Click on Siektes

Click on Brusellose

Stop Brusellose

Gevaar om Beesbrusellose (BBR) deur vendusies en skoue te versprei

Rapportering aan bure of ander eienaars oor die voorkoms van brusellose

Inligting oor brusellose op die NAHF se webblad

Kuddebestuur voor die dekseisoen

Bees Brusellose handleiding

Teenliggaamwaardes om beesbrusellose in koeie te bepaal

Veterinêre Strategie 2016 -2026

'n Dosyn dinge wat jy moet weet van beesbrusellose

Vyf kernfeite wat jy van beesbrusellose (Besmetlike misgeboorte – BM) behoort te weet

Veiligheid van vleis en biltong afkomstig van 'n bees met brusellose

Vervoer van diere uit 'n positiewe brusellose kudde

Beheer van brusellose in 'n beeskudde

Boerderypraktyke wat die gevaar van die voorkoms van brusellose verhoog

Pak brusellose by die horings

Brucellose kan jou lewe verwoes

Brusellose in wild

Bestuur van positiewe besmetlike misgeboorte beeste

Aankoop van beeste wat besmetlike misgeboorte het

Antwoorde oor brusellose

Behandeling van besmetlike misgeboorte

Besmetlike misgeboorte uitbreek in 'n kudde

Gevaar van brusellose onderskat

RB51-inenting teen brusellose in dragtige koeie

Alles oor Besmetlike Misgeboorte (BM)

Kompensasie vir BM en TB positiewe beeste?

Nóg vrae oor besmetlike misgeboorte

Koeie positief getoets vir besmetlike misgeboorte

Vrae, antwoorde oor besmetlike misgeboorte

Brucellose: Wat staan ons te doen?

## Internal parasite control

[www.wormx.info](http://www.wormx.info)

### Summary of disease report for February 2018

116 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 10; Gauteng (G) 6; Limpopo (L) 7; Northwest (NW) 9; Free State (FS) 23; KwaZulu-Natal (KZN) 12; Eastern Cape (EC) 16; Western Cape (WC) 18; Northern Cape (NC) 6; Feedlots (FL) 2 and Laboratories (Lab) 6).

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

## Internal parasites

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

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

Cysticercosis (measles)	x	x	x		x	x		x	x
Schistosomiasis (bilharzia)									
Coccidiosis	x	x	x	x	x	x	x	x	
Cryptosporidiosis	x			x	x	x		x	

Good rainfall occurred in most of the the summer rain fall area and parasite populations are at a high level. Use the five point check to keep on top of what is happening in the flock. For further detail contact your local veterinarian.

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

[https://docs.wixstatic.com/ugd/ad98\\_cb447e77eef6450f93a2b23cb0e6b9de.pdf](https://docs.wixstatic.com/ugd/ad98_cb447e77eef6450f93a2b23cb0e6b9de.pdf)

## External parasites

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

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

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. Actives registered for controlling blue ticks are: macrocyclic lactones and fluazuron (acaricide growth regulator).

Tick numbers increased after the rains. Below is a list of diseases transmitted by ticks.

## Tick borne diseases

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

Tick borne diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
African red water	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		x	x
Corridor disease						x			
Theileriosis									

Asiatic red water is spreading and is one of the deadliest diseases in cattle.

Numerous mortalities were reported! The new heartwater vaccine is still a year or two away as registration trials have to be done when the upscaling of vaccine production is accomplished.

The following tick toxicosis was reported by practices in the provinces:

Tick toxicosis	MP	G	L	NW	FS	KZN	EC	WC	NC
Sweating sickness		x	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		x	x
Ephemeral fever (Three day stiff sickness)	x	x	x	x	x	x			x
Blue tongue	x			x	x	x	x	x	
Rift Valley Fever									
Wesselsbron									
Nagana									

During February disease outbreaks of insect transmittable diseases were reported. Standing water is the ideal breeding environment for mosquitoes, the carriers of Rift Valley Fever! Move animals away from rivers and water source if possible. Spray animals with insect repellants such as deltamethrin.

## Venerial diseases

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

Venereal diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Trichomonosis	x			x	x	x	x		
Vibriosis			x		x	x			
Pizzle disease								x	
<i>Actinobacillus seminis</i>									

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.

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

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

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

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

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

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

## Bacterial diseases

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Anthrax									
Blackquarter	x	x	x	x	X	x	x	x	
Botulism				x		x		x	x
Pulpy kidney	x	x	x	x	X		x	x	x
Lamb dysentery					X				
Swelled head		x				x		x	
Red gut (cattle)	x			x	X		x		
Blood gut (sheep)	x				X				
Tetanus							x		
Salmonellosis	x				X				
Bovine brucellosis			x	x	X				
Ovine brucellosis (Ram's disease)		x						x	
Bovine tuberculosis									
Johne's								x	
Leptospirosis									
Listeriosis									
<i>Pseudomonas</i>									
<i>Fusibacterium necrophorum</i>	x				X				

Septicaemia								x	
<i>E. coli</i>	x		x	x	X	x		x	
Enzootic abortion		x							
Lumpy wool							x		
Uterine gangrene									
Bovine dermatophilosis (Senkobo disease)						x			
Wooden tongue									
Lumpy jaw									

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.

When buying animals 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

Vendor's declaration for Ovine Johne's Disease

## **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.                   | <b>YES</b> | <b>NO</b> |
| 2. The sheep for sale are clearly identified in the accompanying description.  | <b>YES</b> | <b>NO</b> |
| 3. The sheep for sale were born on my farm.  | <b>YES</b> | <b>NO</b> |
| 4. The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)  | <b>YES</b> | <b>NO</b> |
| 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.                   | <b>YES</b> | <b>NO</b> |
| 6. I have actively looked for Ovine Johne's Disease and have had tests done for this.  | <b>YES</b> | <b>NO</b> |
| 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. | <b>YES</b> | <b>NO</b> |

8. The sheep on my properties have been vaccinated against Ovine Johne's Disease and are clearly marked with the approved ear tag.	<b>YES</b>	<b>NO</b>
9. All lambs born are vaccinated	<b>YES</b>	<b>NO</b>
10. If vaccinated, the number of years that the vaccinations have been done is		<b>years</b>
<p><b>NOTE:</b> Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers.</p> <p>Statement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to other infected flocks by law.</p> <p>Buyers should consult their veterinary advisor before any purchases.</p>		

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  
UNIBESITHI YA PRETORIA



**RUVASA**  
Council of Ruminant Producers of South Africa



## **Viral diseases**

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





[illegible]

Fluoride									
Lead				x					
Paraquat									
Phosamine									
Aldicarb									
Organophosphate									
Zinc phosphide									
Pyrethroid									
Amitraz									
Levamisole									
Ivermectin									
Tilmicosin									
Bromoxynil nitrate									
Ionophor									
Hypo									
Monensin									
Diazinon									
Chicken litter							x		

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

Toxic plants are sometimes eaten by young animals that do not know these plants. Be aware of this situation and know where these plants are growing on the farm.

For further information on treatment of tulp and other poisonings visit:

[www.landbou.com](http://www.landbou.com)

Vra vir Faffa

Klik op Indeks van antwoorde

Klik op Beeste of Skape

Klik op Vergiftigings

Klik op die Opskrifte

Every month there are reports of urea poisoning. Be aware when feeding this product that the correct concentration is used and that the lick does not get wet!

The following deaths due to toxic plants and substances were reported: ink berries, duwweltjies, gifblaar, Lantana, vermeersiekte, diazinone and lead (batteries).

Research are being done to control Lantana:

We would like to investigate involvement of your readers and yourself in the development of a National Programme for Management of Lantana similar to the attached National Programme for

Management of Parthenium. Our focus would be on the biological control of the species, however, farmers, landowners and communities would be interested in an integrated approach to the management of the species. Please do bear in mind that the rust-fungus will unfortunately not be a 'silver-bullet' as it is likely to impact some subspecies more than others and work better in some micro-climates than others..

Please can we consider how your readers would be able to contribute to the development of a National Programme? One element would be accurate mapping of the distribution of Lantana. If readers could be encouraged to report locations of Lantana then a more comprehensive map of its distribution would be feasible (we need to make sure that this is done in a co-ordinated fashion and using technology that allows for accuracy and ease of data collection (smart phone application to geographically referenced database – which would need to be set up and managed).

Encouraging readers to give input into a National Programme would result in greater support for its implementation. We would need to make sure that this is not too tedious a process.

Encouraging readers to be aware of the biological control agents that are out there already would also be useful. Again this could be reported using photographs and submitting these to a central database.

It would also be good if we could have landowners who would be willing to have 'biological control reserves' on their property. This would mean setting aside land that is infested by Lantana and ensuring that it is not cleared for any reason. The biological control agents would then be allowed to multiply in this area under the 'protection' of the landowner.

I write on behalf of Biological Control researchers at the Agricultural Research Council – Plant Protection Research Institute and at the Centre for Biological Control at Rhodes University.

<http://www.ru.ac.za/centreforbiologicalcontrol/>

Philip Ivey [<mailto:P.Ivey@ru.ac.za>]

## Nutritional deficiencies

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

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

## Micro-nutritional deficiencies

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

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

Beware of fluoride poisoning as borehole water levels drop.

Supplement animals with vitamin A during drought conditions.

## Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	x	x	x		x	x		x	
Stillbirths					x	x		x	
Abscesses	x	x	x	x	x	x	x	x	x
Intestinal ulcers									
Bladder stones –urolithiasis					x		x		
Blindness					x	x	x	x	
Bloat	x	x			x	x		x	
Blue udder	x	x		x	x			x	
Diarrhoea	x	x	x	x	x	x	x	x	
Epididymitis								x	
Eye cancer					x		x	x	
Eye infections	x	x	x	x	x	x	x	x	x
Joint ill	x				x	x	x	x	
Lameness/foot problems	x	x		x	x	x	x	x	
Lung infection	x	x	x	x	x	x	x	x	x
Mastitis	x	x			x	x	x	x	
Navel ill	x			x	x			x	
Red gut (sheep, torsion of gut)		x							
Rectal prolaps									
Trauma	x				x	x	x	x	
Teeth wear									
Plastic bags (ingestion)									
Downer		x		x	x		x	x	

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

## Metabolic diseases

The following diseases were reported by practices in the provinces:

Metabolic diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Acidosis	x	x			x	x	x	x	
Displaced abomasums						x		x	
Ketosis (Domsiekte)								x	
Milk fever				x	x			x	

Make sure that you adapt animals to feed containing concentrates.

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

## Reproductive diseases

Reproductive diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Dystocia (difficult births)	x	x		x	x	x	x	x	x
Endometritis					x	x		x	
Hydrops									
Metritis	x	x				x		x	
Poor conception	x				x	x	x	x	
Retained afterbirth	x	x			x	x		x	
Sheath prolaps	x	x			x	x			
Uterine prolaps				x	x	x		x	
Vaginal prolaps	x	x		x	x	x			
Penis injury									
Orchitis									

## Environmental conditions

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

## Other conditions

	MP	G	L	NW	FS	KZN	EC	WC	NC
Drug residues (milk, meat, liver, kidney etc)								x	
Predators	x			x	x		x	x	
Theft				x	x				

Traumatic pericarditis (wire in fore stomachs)			X		X	X			
Trauma (fractures etc)		X			X	X			
Trauma (veldfires)									

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

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

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

##### 2. PURCHASES FROM SALES OR SPECULATORS

Purchase only in areas which are not in close proximity to scheduled areas

Visually inspect the animals before purchasing for:

\* brand marks

\* parasite infestation

##### 3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

Do not allow the truck personnel to get in contact with the farm herd

##### 4. ARRIVAL ON THE FARM

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

Isolate them from the farm herd and shared facilities for at least 21 days (quarantine)

Retest for diseases of concern if needed, before mixing with the rest of the herd

Process new arrivals within 24 hrs after arrival (unique ID tag brand, dip, dose, vaccinate)

Inspect regularly

##### 5. FEED PURCHASES

Ensure bales of hay are sourced from areas that are not bordering scheduled areas

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

## **6. VISITORS**

Do not allow strangers or their vehicles amongst the livestock

Ensure fences are well maintained and preferably jackal and warthog proof

## **7. EMPLOYEES**

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

## **GENERAL AND REPRODUCTION MANAGEMENT**

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

## **HERD HEALTH AND BIO-SECURITY**

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

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

Some diseases and parasites (internal and external) are more often encountered in specific areas:

Annual vaccinations and a parasite control program should be applied according to regional requirements and in liaison with the veterinarian.

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



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

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

Stock remedies and medicines should be registered, correctly stored and used before the expiry 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**

**Karino – Dr. Silke Pfitzer**

**George – Dr. Mark Chimes**

**Kareedouw – Dr. Marten Bootsma**

**Plettenberg Bay – Dr. André Reitz**

**Reitz – Dr. Murray Smith (in Australia)**

**Vanderbijlpark – Dr. Kobus Kok**

## **Equines**

**Gauteng**

**Magaliesburg**

Coccidiosis – Adult horses causing weight loss and diarrhoea

## **Limpopo**

Bela –Bela

Swelling- Horse with acute sudden swelling on lateral side of body, not ill – horse under observation.

Maltreatment – Donkey, fracture of front leg at fetlock, used to pull chariot. Bought donkey to help her.

## **Mokopane (Potgietersrus)**

Bont ticks – 3

Brown ear-ticks – 3

Screw-worm - 1

## **Free State**

**Trompsburg/Springfontein**

Few African Horse Sickness cases

Babesiosis – 2 cases

## **Eastern Cape**

**Port Alfred**

Screwworm 2 x Donkey cases - Port Alfred

## **Northern Cape**

### **Colesberg**

Babesiosis – few cases

## **Game**

### **Gauteng**

#### **Pretoria**

Intestinal roundworms - 2

Bont tick – 3

Bont-legged tick – 3

Coccidiosis – 2

Puncture peritonitis - 1

### **Limpopo**

#### **Bela-Bela**

Internal parasites – Sable 1000-3000 eggs per gram of faeces

Anaemia, high epg (probably wireworm), aborted, retained afterbirth – Sable gave blood transfusion, uterine douche plus general treatment. Waiting for lab results for brucellosis.

Wound – Nyala with a pipe around leg

Wound – Buffalo, probably stabbed

Acute death – black impala, probably mamba bite

Poly-arthritis, mortality – Kudu calf

Trauma- Nyala with broken front leg

#### **Mokopane (Potgietersrus)**

Blue ticks – 1

Bont ticks – 3

Brown ear-ticks – 1

Bont-legged ticks - 1

Screw-worm - 1

#### **Polokwane**

Intestinal roundworms – 3

Resistant roundworms – 3

Brown ear-tick - 3

Bont-legged tick -3

Coccidiosis – 1

Copper deficiency - 1

Diarrhoea - 1

Eye infection – 1

#### **Tzaneen**

Moved Nyala and Impala from the Cape died.

#### **Vaalwater**

Tick burdens – 3 out of 5

Eye problems – Roan – (unilateral keratitis)

## **North West**

### **Christiana**

Roundworms - 2

#### **Klerksdorp**

Red-legged ticks – 2

Bont –legged ticks – 2

Brown ear-ticks – 3 Buffalo

Eye infections – 2 Impala

#### **Stella**

Rabies – Bat eared fox 1

## **Eastern Cape**

### **Port Alfred**

Buffalo 1 x screw-worm Shaw Park

Sable Bull (New to Coast) 1 x Theileria + wireworm

## **Swine**

### **Gauteng**

#### **Onderstepoort**

Internal roundworms – 1

Mange – 2

Dystocia - 1

## **Ostriches**

### **Oudtshoorn**

Diarrhoea - Dysbacteriosis, severe high temp result in volatile feedintake

## **Monthly report on Livestock and Wildlife isolations for February 2018 from Vetdiagnostix –Microbiology Laboratory, supplied by dr. Marijke Henton**

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

### **Vetdiagnostix Bacteriology, February 2018**

February was a short month, and there were also fewer relevant isolates than usual.

Samples from the bovine respiratory tract yielded *Mannheimia haemolytica* [3], *Pasteurella multocida* [5], *Histophilus somni* [2], *Mycoplasma* [8], *Mannheimia varigena* [2] *Trueperella pyogenes* [4] and one case of *Streptococcus suis*. Septicaemia in cattle was due to *Salmonella* Dublin in 2 cases, and *Mannheimia haemolytica* in another.

Calf enteritis was due to a combination of *Cryptosporidium* together with *E. coli* in 4 cases, and *E. coli* alone in another three. One of the *E. coli* isolates was an Extended Spectrum Beta Lactamase [ESBL] producer and resistant to most of the antibiotics tested.

Only two mastitis samples yielded meaningful results and both cultured very resistant bacteria [a methicillin resistant *Staphylococcus epidermidis* and an ESBL positive *Enterobacter*] together with *Pseudomonas aeruginosa*, which is always resistant to many antibiotics.

Enteritis in lambs yielded *Cryptosporidium* [3] and *E. coli* [3]. No virulence factors were detected from *E. coli* in one of the cases where both *E. coli* and *Cryptosporidium* were found together. This confirms that the *E. coli* was a secondary invader in that instance.

Enteritis in pigs was associated with *E. coli* [6] and three of the isolates were ESBL positive. One farm yielded an extremely resistant *E. coli*, which is defined as an isolate which is resistant to all the antibiotics that were tested.

A pig with a purulent kidney and bladder infection yielded *Trueperella pyogenes*.

Buffalo with abscesses [2] yielded *Trueperella pyogenes*; in one of the cases together with the anaerobe, *Prevotella*.

**Feedlot report received from Drs. Shaun Morris and Eben du Preez for February 2018 ([edupreez1@telkomsa.net](mailto:edupreez1@telkomsa.net))**

Condition	Comments and Specie
Intestinal roundworms	O 3
Tapeworms	B 1
Liver fluke worms	B 3
Parafilaria	B 3
Cysticercosis (measles)	B 3
Heartwater tick	B 3
Brown ear-tick	B 2
Bont-legged tick	B 3
Red-legged tick	B,O 3
Blowflies	O 1
African red water	B 1
Asiatic red water	B 2
Anaplasmosis	B 3
Heartwater	B,O,C 1
Lumpy skin disease	B 2
Trichomonosis	B 2
Quarter evil	B 1
Brucellosis	B 1
Lumpy wool	O 3
Red gut	B 3
Blood gut	O 3
Pulpy kidney	O 3
FSE	O 3
Botulism (farmer reported 8 deaths)	B 3
<i>E.coli</i>	B 2
Ringworm	B 3
IBR	B 1
Warts	B 3
Orf	O 3
Protein deficiency	B 3
Energy deficiency	B 3
Phosphate deficiency	B 3
Vitamin A deficiency	O 1
Dystocia	B 1
Joint ill	B 2
Lameness	B,O 3
Lungs	B,O 3
Diarrhoea	B,O 3
Eye infection	B,O 3

Abscesses	B,O 3
Heatstroke	B 1
Trauma	B,O 3
Pericarditis	B 3, O 1

**Deaths reported by farmers:**

Deaths on farm where backgrounding was done due to anaplasmosis and red water.

**Feedlot report received from Dr. Andy Hentzen for February 2018  
(andyvet@mweb.co.za)**

Condition	Comments and Specie
Intestinal roundworms	B 3
Tapeworms	B 3
Liver fluke worms	B 2
Conical fluke	B 1
Parafilaria	B 3
Cysticercosis (measles)	B 1
Blue ticks	B 3
Heartwater tick	B 1
Brown ear-tick	B 3
Bont-legged tick	B 3
Biting lice	B 2
Sucking lice	B 2
Nuisance flies	B 3
African red water	B 3
Asiatic red water	B 2
Anaplasmosis	B 3
Heartwater	B 1
Lumpy skin disease	B 2
Three day stiff sickness	B 2
Red gut	B 3
Coccidiosis	B 3
BVD	B 2
IBR	B 3
Orf	O 2
Water contamination	B 1
Protein deficiency	B 2
Lameness	B 3
Lungs	B 3
Diarrhoea	B 3
Eye infection	B 3
Abscesses	B,C 3

**Monthly report for February 2018 from Dr R D Last (BVSc; M.Med.Vet(Path);  
MRCVS)**

## Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

### Contributors

Mr Butch Bosch, Ms Ntando Magoso, Mrs Beverley Williams, Ms Nicole Genga, Dr Rick Last

LIVESTOCK DISEASE SURVEILLANCE			
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION
Bovine, Heifer	BVD (IHC positive)	1	Kimberley, Northern Cape
Bovine, Heifer	Septicaemic salmonellosis	1	Potchefstroom, North West
Bovine, Bulls	Sarcoptic mange	1	Botswana
Bovine, Simmentaler Cow	Seneciosis	1	Rustenburg, Gauteng
Bovine, Red Angus	Babesia bovis	1	Eston, KZN
Bovine, Heifer 3 months	Septicaemic salmonellosis	1	Howick, KZN
Bovine, Adult Cow	Paramphistomiasis	1	Memel, Free State

WILDLIFE DISEASE SURVEILLANCE			
WILDLIFE SPECIES	DISEASE AGENT	NO. CASES	LOCATION
Roan Antelope, Heifer	Theileriosis	1	Swaziland
Sable Antelope, Sub-adult	Aspiration pneumonia	1	Rooiberg, Limpopo
Caracal, Adult Female	Aspiration pneumonia	1	Plettenburg Bay, Southern Cape
Sable Antelope, Neonate	In-utero theileriosis	1	Phalaborwa, Mpumulanga
Roan Antelope, Neonate	Neonatal theileriosis with DIC	1	Thabazimbi, Limpopo
White Rhino, Adult Bull	Renal amyloidosis and pyelonephritis	1	Rooiberg, Limpopo
Buffalo, Adult cow	TRP with Truperella pyogenies embolic brain abcess	1	Beestekraal, Limpopo
Lion Cub, 1 week	Escherichia coli bronchopneumonia	1	Ottosdaal, North West
Sable Antelope, Neonate	Congenital biliary atresia	1	Phalaborwa, Mpumulanga
Cheetah, Adult Male	Peripheral nerve sheath tumour	1	Hoedspruit, Limpopo
Njala, Adult Cow	Exertional myopathy	1	Polokwane, Limpopo

**Monthly report for February 2018 from Queenstown Provincial Veterinary Laboratory as supplied by Dr. A.D. Fisher ([alan.fisher@drdar.gov.za](mailto:alan.fisher@drdar.gov.za))**

Condition	Area	Comments and Specie
Intestinal roundworms		O 3
Tapeworms		O 1
Liver fluke		O 1
Echinococcus cysts		B,O,C 3
<i>Spirocerca lupi</i>	Cofimvaba	Canine 1
Lumpy skin disease	Cofimvaba	B 3
Three day stiff sickness	Queenstown	B 2
Blue tongue	Cathcart	O 3
Brucellosis	Queenstown	B 1
Coccidiosis		O,C 3
Rabies	Mthatha Port St. Johns Nqobobo Queenstown Mt. Fletcher Barkly East	Bovine 1, Canine 1 Canine 1 C 1 Canine 1 Canine 1 Canine 1
Geel Dikkop ( <i>Tribulus</i> )	Whittlesea, Tarkastad	O 2

Rabies – Canine, bovine – ongoing outbreak in Eastern Cape (former Transkei)

B – bovine; O – ovine; C – caprine; P – pigs; G – game

1 = one case; 2 = 2 to 9 cases; 3 = more than 10 cases

### Monthly report on Livestock and Wildlife isolations for February 2018 from IDEXX Laboratories supplied by dr. Liza du Plessis ([Liza-DuPlessis@idexx.com](mailto:Liza-DuPlessis@idexx.com))

Condition	Comments and Specie
Internal roundworms	O,C 2
Heartwater tick	E,G 1
Red-legged tick	E 1
BMC (snotsiekte)	B 1
Equine sarcoid	E 1
Abortion	B,O 1
Diarrhoea	B,O 1
Rhabdomyolysis (muscle)	B 1

8<sup>th</sup> March 2018

DAFF

Import/Export Policy Unit Subdirector

**Monthly report:**

**Cases sent to referring veterinarians between 12<sup>th</sup> February and 8<sup>th</sup> March 2018**

Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

Note: Pending NZG cases are being done by Dr Lewis as part of her training in wildlife pathology and so results are delayed.

PMDate	Species	Final	PM No
21 Aug 17	White Rhino	Poached animal	17Z150
21 Aug 17	White Rhino	Poached animal	17Z151
21 Aug 17	White Rhino	Poached animal	17Z149
06-Sep-17	Boa constrictor	Inclusion body disease, Salmonella enteritis	17Z162
06-Sep-17	Spotted Eagle Owl	Strigid herpes virus infection	17Z161
12-Sep-17	Roan	Pending	17Z166
09-Oct-17	Skaapsteker	Bacterial enteritis	17Z169
09-Oct-17	Blue and Gold Macaw	Pending	17Z170
09-Oct-17	Domestic Cat	Bacterial splenitis, suspected FIV	17Z168
09-Oct-17	Madagascan Ground Boa	Pending	17Z171
20-Oct-17	Sable	Pending	17Z174
20-Oct-17	African Edible Bullfrog	Pending	17Z175
20-Oct-17	Egyptian Goose	Pending	17Z176

PMDate	Species	Final	PM No
10-Nov-17	Aurora house snake	Parasitic bronchopneumonia	17Z186
10-Nov-17	Nubian Ibex	Complications of cystic ovarian disease	17Z185
21-Nov-17	Tiger Fish	Encephalitis	17Z187



Kind regards,



Dr E Mitchell (néé Lane)  
Faculty of Veterinary Science  
Research Associate, NZG

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Member of the World Association of Zoos and Aquariums (WAZA) Pan-African Association of Zoological Gardens, Aquaria and Botanic Gardens (PAAZAB)

## DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

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## Internal Parasites

### Roundworms in general

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.4 (8)	2.0 (1)	3.0 (2)	1.5 (2)	2.5 (11)	2.4 (9)	2.1 (8)	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>	2.5 (2)			1.0 (1)	2.0 (2)	2.3 (3)		2.0 (1)	
<b>Sheep</b>	2.5 (4)	2.0 (1)	3.0 (1)	2.0 (1)	2.6 (9)	2.5 (4)	2.1 (7)	2.7 (3)	
<b>Goat</b>	2.0 (2)		3.0 (1)			2.5 (2)	2.0 (1)		

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

##### Middelburg, Middelburg Dierehospitaal

Sheep: 1, Goat: 1

##### Standerton, Econovet

Beef: 2, Sheep: 3

##### Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3

#### Gauteng

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

#### Limpopo

##### Polokwane, Pietersburg Veterinary Clinic

Sheep: 3, Goat: 3

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 1
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>
Sheep: 2
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Sheep: 2
<b>Frankfort, Frankfort Dierekliniek</b>
Sheep: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 1, Sheep: 3
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3, Sheep: 3
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Sheep: 3
<b>Trompsburg, Dr. Wyn Irwin</b>
Sheep: 3
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Sheep: 3
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>
Sheep: 2
<b>Wesselsbron, Wesselsbron Dierekliniek</b>
Sheep: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Tugela Vet Clinic</b>
Beef: 3, Sheep: 3, Goat: 3
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Sheep: 2
<b>Mooi River, Mooirivier Vet Clinic</b>
Sheep: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2, Goat: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Sheep: 3
<b>Eastern Cape</b>
<b>Aliwal North, Hertzogbrug Dierekliniek</b>
Sheep: 2
<b>Cradock, Cradock Veterinary Clinic</b>
Sheep: 2
Wireworm and bankruptworms in sheep and goats on irrigated pastures
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>
Sheep: 1, Goat: 2
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>
Sheep: 3
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 3
<b>Uitenhage, Uitenhage Dierehospitaal</b>
Sheep: 2
<b>Witelsbos, Witelsbos Veterinary Consulting Rooms</b>
Sheep: 2
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Sheep: 3
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Beef: 2, Sheep: 2
<b>Piketberg, Piketberg Dierehospitaal</b>
Sheep: 3
<b>Resistant Round Worms</b>



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)	2.0 (1)	3.0 (2)	1.0 (1)	2.5 (2)	2.0 (2)	1.3 (3)	2.5 (2)	

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

Sheep	1.5 (2)	2.0 (1)	3.0 (1)	1.0 (1)	2.5 (2)	2.0 (1)	1.5 (2)	2.5 (2)	
Goat			3.0 (1)			2.0 (1)	1.0 (1)		

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Sheep: 1

##### Standerton, Econovet

Sheep: 2

#### Gauteng

##### Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

#### Limpopo

##### Polokwane, Pietersburg Veterinary Clinic

Sheep: 3, Goat: 3

#### North West

##### Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 1

#### Free State

##### Harrismith, Harrismith Dierehospitaal

Sheep: 2

##### Hoopstad, Hoopstad Dierekliniek

Sheep: 3

#### Kwazulu-Natal

##### Pietermaritzburg, Richmond Veterinary Clinic

Sheep: 2, Goat: 2

#### Eastern Cape

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

Goat: 1

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

Sheep: 2

##### Middelburg (EC), Steynsburg Dierehospitaal

Sheep: 1

Levamisole resistance

#### Western Cape

##### Caledon, Overberg Veterinary Hospital

Sheep: 2

##### George, George Animal Hospital

Sheep: 3

## Wireworm



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (6)	2.0 (2)	2.0 (1)	1.0 (1)	2.6 (12)	1.7 (3)	1.7 (3)	2.0 (2)	3.0 (1)

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



**Dundee, Endumeni Herd health**

Sheep: 2

**Estcourt, Estcourt Vet Clinic**

Sheep: 1

**Eastern Cape****Aliwal North, Hertzogbrug Dierekliniek**

Sheep: 2

**Cradock, Cradock Veterinary Clinic**

Sheep: 2

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 1

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

Sheep: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 1

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

Sheep: 3

Nodular worm									<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

Goat	1.0 (1)
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**Kwazulu-Natal****Camperdown, Camperdown Vet Clinic**

Goat: 1

Eye worm (Thelazia rhodesii)									<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)	1.5 (2)				

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

Beef	2.0 (1)			2.0 (1)	1.5 (2)				
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**Mpumalanga****Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 2

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

Beef: 2

**Free State****Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

Tape Worms									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)		2.0 (2)	1.0 (1)	1.5 (6)		1.0 (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									
Beef	2.0 (1)				1.0 (2)				
Dairy								2.0 (1)	
Sheep	2.0 (1)		2.0 (1)	1.0 (1)	1.8 (4)			3.0 (1)	
Goat			2.0 (1)				1.0 (1)	3.0 (1)	
<b>Mpumalanga</b>									
<b>Standerton, Econovet</b>									
Beef: 2, Sheep: 2									
<b>Limpopo</b>									
<b>Polokwane, Pietersburg Veterinary Clinic</b>									
Sheep: 2, Goat: 2									
<b>North West</b>									
<b>Ventersdorp, Ventersdorp Dierekliniek</b>									
Sheep: 1									
<b>Free State</b>									
<b>Clocolan, Clocolan Dierekliniek</b>									
Sheep: 2									
<b>Frankfort, Frankfort Dierekliniek</b>									
Sheep: 2									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Beef: 1, Sheep: 2									
<b>Memel, Memel Veterinary Clinic</b>									
Beef: 1									
<b>Wesselsbron, Wesselsbron Dierekliniek</b>									
Sheep: 1									
<b>Eastern Cape</b>									
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>									
Goat: 1									
<b>Western Cape</b>									
<b>Beaufort West, Beaufort West State Vet</b>									
Goat: 3									
Severe infestation in kids									
<b>George, George Animal Hospital</b>									
Sheep: 3									
<b>Riversdale, Riversdal Dierekliniek</b>									
Dairy: 2									
Parafilaria									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)		1.3 (3)			2.0 (1)			

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)	1.3 (3)	2.0 (1)
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#### **Mpumalanga**

##### **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 2

Seen at abattoir

#### **Limpopo**

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

Beef: 2

Six cases

##### **Mokopane, Potgietersrus Dierekliniek**

Beef: 1

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

Beef: 1

#### **Kwazulu-Natal**

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

Beef: 2

### **Liver fluke**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (3)	1.0 (1)	1.0 (1)	1.0 (1)	1.3 (4)	2.0 (2)		1.3 (3)	

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

<b>Beef</b>	2.0 (3)	1.0 (1)	1.0 (1)	1.0 (1)	1.3 (3)	2.0 (2)	1.0 (2)
<b>Dairy</b>					1.0 (1)		
<b>Sheep</b>							2.0 (1)
<b>Goat</b>			1.0 (1)				

#### **Mpumalanga**

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

Beef: 2

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

Beef: 2

##### **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 2

Two farmers reported bottlejaw and anaemia in a few cows

#### **Gauteng**

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

Beef: 1

#### **Limpopo**

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

Goat: 1

#### **North West**

##### **Ventersdorp, Ventersdorp Dierekliniek**

Beef: 1

#### **Free State**

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

Beef: 1, Dairy: 1



**Harrismith, Harrismith Dierehospitaal**

Beef: 2

**Memel, Memel Veterinary Clinic**

Beef: 1

**Kwazulu-Natal****Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Beef: 2

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

Beef: 1

**Malmesbury, Dr Otto Kriek**

Beef: 1

**Riversdale, Riversdal Dierekliniek**

Sheep: 2

**Conical Flukes**

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

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

Beef: 1

**Standerton, Econovet**

Beef: 2

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

Beef: 2

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 1

**Memel, Memel Veterinary Clinic**

Beef: 2

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

Beef: 1

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

Dairy: 2

**Western Cape****Swellendam, Swellendam Dierehospitaal**

Beef: 2

**Cysticercosis**

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

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

#### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3

#### Gauteng

**Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 2

#### Limpopo

**Mokopane, Potgietersrus Dierekliniek**

Beef: 1

#### Free State

**Parys, Parys Dierehospitaal**

Beef: 3

#### Kwazulu-Natal

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2

#### Western Cape

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

#### Northern Cape

**Postmasburg, Postmasburg Dierekliniek**

Sheep: 2

<b>Other</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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#### Kwazulu-Natal

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

Sarcocystis

### External Parasites

<b>Blue ticks</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>	2.6 (5)		2.3 (3)	3.0	2.6	2.8 (10)	1.5 (2)	2.2 (6)	

				(4)	(12)			
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>	2.8 (4)		2.3 (3)	3.0 (4)	2.5 (10)	2.8 (9)	2.0 (1)	2.0 (3)
<b>Dairy</b>					3.0 (1)	3.0 (1)	1.0 (1)	2.3 (3)
<b>Sheep</b>	2.0 (1)				3.0 (1)			

#### **Mpumalanga**

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

Beef: 2, Sheep: 2

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

Beef: 3

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

Beef: 3

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

Beef: 3

#### **Limpopo**

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

Beef: 3

##### **Mokopane, Potgietersrus Dierekliniek**

Beef: 1

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

Beef: 3

#### **North West**

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

Beef: 3

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

Beef: 3

##### **Lichtenburg, Dr CM Kruger-Rall**

Beef: 3

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

Beef: 3

#### **Free State**

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

Beef: 2

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 3

##### **Hertzogville, Hertzogville Dierekliniek**

Beef: 3

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

Beef: 3, Sheep: 3

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

Beef: 3, Dairy: 3

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

Beef: 2

##### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3

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

Beef: 2

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

Beef: 1

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

Beef: 3

#### **Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2

**Dundee, Endumeni Herd health**

Beef: 3

**Estcourt, Estcourt Vet Clinic**

Beef: 3, Dairy: 3

**Mooi River, Mooirivier Vet Clinic**

Beef: 3

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 3

Seasonal tick infestations

**Underberg, Underberg Veterinary Surgery**

Beef: 3

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

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

Dairy: 1

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

Beef: 2

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

Beef: 3, Dairy: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Beef: 2, Dairy: 2

**Swellendam, Swellendam Dierehospitaal**

Beef: 1

**Resistant blue Ticks**

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

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

Beef		3.0 (1)			2.5 (2)	2.0 (2)			
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**Gauteng****Hammanskraal, Themba Animal Clinic**

Beef: 3

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 2

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2

## Heartwater (Bont) ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.6 (5)	2.2 (5)	2.3 (6)	3.0 (2)		1.7 (11)	1.5 (2)	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>	3.0 (2)	2.0 (4)	2.3 (3)	3.0 (2)		1.8 (6)	1.0 (1)	2.0 (1)	
<b>Dairy</b>								2.0 (1)	
<b>Sheep</b>	2.0 (1)	3.0 (1)	2.0 (2)			1.5 (2)			
<b>Goat</b>	2.5 (2)		3.0 (1)			1.7 (3)	2.0 (1)		

**Mpumalanga**

## Middelburg , Middelburg Dierhospitaal

Beef: 3, Goat: 3

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3, Sheep: 2, Goat: 2

## Gauteng

### Bronkhorstspruit, Kerkstraat Dierkliniek

Beef: 1

## Hammanskraal, Themba Animal Clinic

Beef: 3

### Pretoria, Anima Veterinary Consulting Rooms

Beef: 3, Sheep: 3

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

Beef: 1

## Limpopo

**Makhado, Blouberg Dierekliniek**

Beef: 3

## Mokopane, Potgietersrus Dierekliniek

Beef: 1, Sheep: 1

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3, Sheep: 3, Goat: 3

## North West

## Stella, Stella Dierekliniek

Beef: 3

## Vryburg, Vryburg Dierehospitaal

Beef: 3

## Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 3

**Estcourt, Estcourt Vet Clinic**

Beef: 2

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2, Goat: 2

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2, Sheep: 2, Goat: 2

**Pongola, Pongola Animal Clinic**

Beef: 1, Sheep: 1, Goat: 1

## Eastern Cape

**Bathurst, Dr Jane Pistorius**

Goat: 2

Two cases this month

**Uitenhage, Uitenhage Dierehospitaal**

Beef: 1

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

Beef: 2, Dairy: 2

**Brown ear-ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (6)	2.0 (2)	3.0 (3)	2.3 (3)	1.5 (2)	2.1 (7)			

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

Beef	1.6 (5)	2.0 (2)	3.0 (3)	2.5 (2)	1.5 (2)	2.1 (7)			
Goat	2.0 (1)			2.0 (1)					

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

Beef: 1

**Middelburg , Middelburg Dierehospitaal**

Beef: 1

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3, Goat: 2

**Standerton, Econovet**

Beef: 2

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 1

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

Beef: 2

**Hammanskraal, Themba Animal Clinic**

Beef: 2

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

Beef: 3

**Mokopane, Potgietersrus Dierekliniek**

Beef: 3

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3

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

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2, Goat: 2

**Free State****Memel, Memel Veterinary Clinic**

Beef: 1

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2

**Estcourt, Estcourt Vet Clinic**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

**Bont-legged ticks**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)	2.8 (4)	2.5 (4)	3.0 (6)	2.6 (12)	2.0 (2)	3.0 (3)		

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

<b>Beef</b>	2.0 (2)	2.7 (3)	2.3 (3)	3.0 (6)	2.4 (7)	2.0 (2)	3.0 (1)		
<b>Sheep</b>		3.0 (1)	3.0 (1)		3.0 (4)		3.0 (1)		
<b>Goat</b>					2.0 (1)		3.0 (1)		

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

Beef: 1

**Middelburg , Middelburg Dierehospitaal**

Beef: 3

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

Beef: 2

**Hammanskraal, Themba Animal Clinic**

Beef: 3

**Pretoria, Anima Veterinary Consulting Rooms**

Beef: 3, Sheep: 3

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

Beef: 3

**Mokopane, Potgietersrus Dierekliniek**

Beef: 1

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 3, Sheep: 3

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

Beef: 3

**Klerksdorp, Buffeldoorn Dierehospitaal**

Beef: 3

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 3

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 3

**Lichtenburg, Dr CM Kruger-Rall**

Beef: 3

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

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

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3, Sheep: 3, Goat: 2

**Memel, Memel Veterinary Clinic**

Beef: 2

**Philippolis, Rowelsfontein veearts Spreekkamer**

Sheep: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 3

**Pongola, Pongola Animal Clinic**

Beef: 1

**Eastern Cape****Middelburg (EC), Steynsburg Dierehospitaal**

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
Average	1.0 (3)		1.0 (1)	3.0 (3)	2.3 (8)	2.0 (2)			

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

Beef	1.0 (1)		1.0 (1)	3.0 (3)	2.2 (5)	2.0 (2)			
Sheep	1.0 (1)				2.3 (3)				
Goat	1.0 (1)								

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

Beef: 1, Sheep: 1, Goat: 1

**Limpopo****Mokopane, Potgietersrus Dierekliniek**

Beef: 1

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

Beef: 3

**Klerksdorp, Buffeldoorn Dierehospitaal**



Beef: 2



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

1.0 (1)

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

2.0  
(1)

1.0  
(1)

2.0 (1)

## Goat: 2

Sucking lice (blue lice)									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		
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)		
Eastern Cape									
Graaff-Reinet, Camdeboo Veterinary Clinic									
Goat: 2									
Scab mites									<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)				
Free State									
Harrismith, Harrismith Dierehospitaal									
Sheep: 1									
Mange Mites									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)			2.0 (1)				
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		3.0 (1)							
Gauteng									
Hammanskraal, Themba Animal Clinic									
Goat: 3									
Free State									
Harrismith, Harrismith Dierehospitaal									
Sheep: 2									
Nuisance Flies									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

<b>Average</b>	2.2 (5)		3.0 (1)	3.0 (5)	2.4 (8)	3.0 (2)	1.8 (8)
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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>	2.5 (2)		3.0 (1)	3.0 (2)	2.5 (4)	3.0 (1)	1.7 (3)
<b>Dairy</b>				3.0 (1)		3.0 (1)	2.3 (3)
<b>Sheep</b>	2.0 (1)			3.0 (2)	2.5 (2)		1.0 (2)
<b>Goat</b>	2.0 (2)				2.0 (2)		

#### **Mpumalanga**

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

Beef: 2, Sheep: 2, Goat: 2

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

Beef: 3, Goat: 2

#### **North West**

##### **Stella, Stella Dierekliniek**

Beef: 3

#### **Free State**

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

Sheep: 3

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

Dairy: 3

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

Beef: 3, Sheep: 3

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

Beef: 3

#### **Kwazulu-Natal**

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

Beef: 3

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

Beef: 2, Sheep: 2, Goat: 2

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

Beef: 2, Goat: 2

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

Beef: 3, Sheep: 3

#### **Eastern Cape**

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

Dairy: 3

##### **Middelburg (EC), Steynsburg Dierehospitaal**

Beef: 3

#### **Western Cape**

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

Dairy: 3

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

Beef: 1, Sheep: 1

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

Beef: 1, Sheep: 1

##### **Piketberg, Piketberg Dierehospitaal**

Dairy: 3

Calves with eye problems

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

Dairy: 1

##### **Swellendam, Swellendam Dierehospitaal**

Beef: 3

Blowflies									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		1.5 (2)	3.0 (1)	2.5 (2)		3.0 (1)	1.5 (2)	

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

Beef			1.0 (1)	3.0 (1)					
Sheep	1.0 (1)		2.0 (1)		2.5 (2)		3.0 (1)	1.5 (2)	

#### Mpumalanga

**Balfour, Balfour Dierekliniek**

Sheep: 1

#### Limpopo

**Mokopane, Potgietersrus Dierekliniek**

Beef: 1

**Polokwane, Pietersburg Veterinary Clinic**

Sheep: 2

#### North West

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

#### Free State

**Kroonstad, Kroonstad Dierehospitaal**

Sheep: 2

**Trompsburg, Dr. Wyn Irwin**

Sheep: 3

#### Eastern Cape

**Middelburg (EC), Steynsburg Dierehospitaal**

Sheep: 3

#### Western Cape

**Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 2

**Riversdale, Riversdal Dierekliniek**

Sheep: 1

Screw-worm									<a href="#">^</a>
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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 (2)			2.0 (1)	2.0 (1)		

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

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

#### Mpumalanga

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

**Limpopo****Mokopane, Potgietersrus Dierekliniek**

Beef: 1

**Polokwane, Pietersburg Veterinary Clinic**

Sheep: 1

**Kwazulu-Natal****Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Eastern Cape****Port Alfred, Port Alfred Veterinary Clinic**

Beef: 2

Martindale 2 cases

**Nasal bot larvae**

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

Sheep	3.0 (1)			3.0 (1)	2.0 (3)				
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**Mpumalanga****Standerton, Econovet**

Sheep: 3

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

Sheep: 3

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

Sheep: 3

**Ladybrand, Ladybrand**

Sheep: 2

**Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 1

**Midges**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)			3.0 (1)	3.0 (1)	2.3 (6)	2.0 (3)	2.0 (2)	

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

Beef	1.5 (2)			3.0 (1)		2.3 (3)			
Dairy								2.0 (1)	
Sheep	2.0 (1)				3.0 (1)	2.5 (2)	2.0 (2)	2.0 (1)	

Goat	2.0 (1)				2.0 (1)		2.0 (1)		
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
Nelspruit, Nelspruit Animal Hospital									
Beef: 2, Sheep: 2, Goat: 2									
North West									
Christiana, Christiana Dierehospitaal									
Beef: 3									
Free State									
Viljoenskroon, Viljoenskroon Dierekliniek									
Sheep: 3									
Kwazulu-Natal									
Bergville, Tugela Vet Clinic									
Beef: 2, Sheep: 2, Goat: 2									
Mooi River, Mooirivier Vet Clinic									
Beef: 3, Sheep: 3									
Pietermaritzburg, Richmond Veterinary Clinic									
Beef: 2									
Eastern Cape									
Aliwal North, Hertzogbrug Dierekliniek									
Sheep: 2									
Graaff-Reinet, Graaff Reinet Veterinary Clinic									
Sheep: 2, Goat: 2									
Western Cape									
Heidelberg (WC), Heidelberg Dierekliniek									
Dairy: 2, Sheep: 2									
Mosquitoes									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (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									
Beef					3.0 (1)	3.0 (1)			
Sheep					3.0 (2)				
Free State									
Harrismith, Harrismith Dierehospitaal									
Beef: 3, Sheep: 3									
Philippolis, Rowelsfontein veearts Spreekkamer									
Sheep: 3									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 3									
Itch mite									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

Average									3.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep									3.0 (1)
Western Cape									
George, George Animal Hospital									
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)	2.0 (2)	1.5 (2)	1.0 (2)	2.3 (7)	2.1 (8)	3.0 (1)	2.3 (6)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.3 (3)	2.0 (2)	1.5 (2)	1.0 (2)	2.3 (7)	2.1 (8)		2.0 (3)	
Dairy							3.0 (1)	2.7 (3)	
Mpumalanga									
Grootvlei, Grootvlei Dierekliniek									
Beef: 2									
Middelburg , Middelburg Dierehospitaal									
Beef: 3									
Nelspruit, Nelspruit Animal Hospital									
Beef: 2									
Gauteng									
Hammanskraal, Themba Animal Clinic									
Beef: 2									
Magaliesburg, Magaliesburg; Dr Ryan Jeffrey									
Beef: 2									
African red water in newly shipped cattle from Eastern Free State to Krugersdorp.									
Limpopo									
Makhado, Blouberg Dierekliniek									
Beef: 2									
Eight cases									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1									
North West									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 1									
Ventersdorp, Ventersdorp Dierekliniek									
Beef: 1									
Free State									
Frankfort, Frankfort Dierekliniek									
Beef: 3									
Harrismith, Harrismith Dierehospitaal									
Beef: 3									
Memel, Memel Veterinary Clinic									
Beef: 2									
Viljoenskroon, Viljoenskroon Dierekliniek									

Beef: 1
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>
Beef: 3
<b>Wesselsbron, Wesselsbron Dierekliniek</b>
Beef: 2
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 3
<b>Bergville, Tugela Vet Clinic</b>
Beef: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 1
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 2
<b>Mtubatuba, Mtubatuba Animal Clinic</b>
Beef: 2
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3
<b>Vryheid, Vryheid Privaat Veeartse</b>
Beef: 2
<b>Eastern Cape</b>
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Western Cape</b>
<b>George, George Animal Hospital</b>
Beef: 3, Dairy: 3
<b>Heidelberg (WC), Heidelberg Dierekliniek</b>
Dairy: 3
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>
Beef: 1
Cattle affected, only those walking along the river banks, high parasitaemia. Babesia bovis and B. bigemina in the same animal.
<b>Riversdale, Riversdal Dierekliniek</b>
Beef: 2, Dairy: 2

Asiatic red water									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.6 (7)	2.0 (1)	1.5 (2)	1.0 (1)	2.7 (6)	1.9 (8)	2.4 (5)	2.2 (6)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	2.6 (7)	2.0 (1)	1.5 (2)	1.0 (1)	2.7 (6)	1.9 (8)	2.0 (3)	2.0 (4)	
Dairy							3.0 (2)	2.5 (2)	

<b>Mpumalanga</b>
<b>Balfour, Balfour Dierekliniek</b>
Beef: 3
<b>Bethal, Bethal Dierekliniek</b>
Beef: 2
<b>Ermelo, Môregloed Veterinêre Spreekkamer</b>



Beef: 2
<b>Middelburg , Middelburg Dierehospitaal</b>
Beef: 3
<b>Nelspruit, Nelspruit Animal Hospital</b>
Beef: 3
<b>Standerton, Econovet</b>
Beef: 3
<b>Volksrust, Cape Cross Volksrust Dierehospitaal</b>
Beef: 2
<b>Gauteng</b>
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>
Beef: 2
<b>Limpopo</b>
<b>Mokopane, Potgietersrus Dierekliniek</b>
Beef: 2
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 1
<b>North West</b>
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>
Beef: 1
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Beef: 3
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 3
<b>Memel, Memel Veterinary Clinic</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>
Beef: 3
<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>
Beef: 2
<b>Dundee, Endumeni Herd health</b>
Beef: 2
<b>Eshowe, Eshowe Veterinary Hospital</b>
Beef: 3
Massive outbreak
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 1
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 2
<b>Vryheid, Vryheid Privaat Veeartse</b>
Beef: 1
<b>Eastern Cape</b>
<b>Humansdorp, Humansdorp Veterinary Clinic</b>
Dairy: 3
30 plus dairy cows and heifers died of a per-acute <i>Babesia bovis</i> infection.
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>
Dairy: 3
<b>Port Alfred, Port Alfred Veterinary Clinic</b>
Beef: 2
Bathurst one calf, Kleinemonde 1 cow

**Queenstown, Queenstown Veterinary clinic**

Beef: 2

**Stutterheim, Stutterheim Veterinary Clinic**

Beef: 2

Two outbreaks

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

Beef: 2

**George, George Animal Hospital**

Beef: 3, Dairy: 3

**Oudtshoorn, Oudtshoorn Dierekliniek**

Beef: 1

Cattle affected, only those walking along the river banks, high parasitaemia. *Babesia bovis* and *B. bigemina* in the same animal.

**Riversdale, Riversdal Dierekliniek**

Beef: 2, Dairy: 2

**Anaplasmosis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)		1.5 (2)	3.0 (2)	2.0 (11)	1.7 (3)	1.9 (7)	2.0 (7)	

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

Beef	1.3 (3)		1.5 (2)	3.0 (2)	2.0 (11)	2.0 (2)	1.6 (5)	2.0 (2)	
Dairy						1.0 (1)	2.5 (2)	2.0 (5)	

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

Beef: 1

**Bethal, Bethal Dierekliniek**

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

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

Beef: 2

Two cases

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

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

Beef: 3

**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 3

Outbreak, 4% of cattle contracted disease on a farm.

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

Beef: 2

**Ficksburg, Oosvrystaat Dier Produkte**

Beef: 1

**Harrismith, Harrismith Dierehospitaal**

Beef: 3

**Hertzogville, Hertzogville Dierekliniek**

Beef: 1

<b>Hoopstad, Hoopstad Dierekliniek</b>									
Beef: 3									
<b>Kroonstad, Kroonstad Dierehospitaal</b>									
Beef: 2									
<b>Trompsburg, Dr. Wyn Irwin</b>									
Beef: 3									
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>									
Beef: 2									
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>									
Beef: 2									
<b>Wesselsbron, Wesselsbron Dierekliniek</b>									
Beef: 1									
<b>Winburg, Winburg Dierekliniek</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Bergville, Bergville Veterinary Clinic</b>									
Beef: 3									
<b>Estcourt, Estcourt Vet Clinic</b>									
Dairy: 1									
<b>Underberg, Underberg Veterinary Surgery</b>									
Beef: 1									
<b>Eastern Cape</b>									
<b>Alexandria, Alexandria Platteland Spreekkamer</b>									
Dairy: 2									
<b>Aliwal North, Hertzogbrug Dierekliniek</b>									
Beef: 2									
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>									
Beef: 2									
<b>Jeffreys Bay, Cape Cross Veterinary Hospital</b>									
Dairy: 3									
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>									
Beef: 1									
Disease has been absent for nearly a decade									
<b>Port Alfred, Port Alfred Veterinary Clinic</b>									
Beef: 1									
Shaw Park 1 case									
<b>Queenstown, Queenstown Veterinary clinic</b>									
Beef: 2									
<b>Western Cape</b>									
<b>Darling, Tygerberg Dierehospitaal Darling</b>									
Dairy: 2									
<b>Heidelberg (WC), Heidelberg Dierekliniek</b>									
Dairy: 2									
<b>Malmesbury, Invitrotech</b>									
Dairy: 2									
<b>Malmesbury, Malmesbury Dierehospitaal</b>									
Dairy: 2									
<b>Riversdale, Riversdal Dierekliniek</b>									
Beef: 2, Dairy: 2									
<b>Swellendam, Swellendam Dierehospitaal</b>									
Beef: 2									
<b>Heartwater</b>									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	1.7 (3)	2.2 (9)	2.3		1.6 (13)	2.0 (1)		

				(4)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported							
Beef	2.0 (1)	1.5 (2)	2.3 (4)	2.5 (2)		2.0 (5)	2.0 (1)
Dairy				2.0 (1)			
Sheep			2.0 (3)	2.0 (1)		1.4 (5)	
Goat	2.0 (1)	2.0 (1)	2.5 (2)			1.3 (3)	
Mpumalanga							
Nelspruit, Nelspruit Animal Hospital							
Beef: 2, Goat: 2							
Gauteng							
Bronkhorstspuit, Kerkstraat Dierekliniek							
Beef: 1							
Pretoria, Anima Veterinary Consulting Rooms							
Beef: 2, Goat: 2							
Limpopo							
Bela Bela, Artemis Veterinary Services							
Beef: 1, Sheep: 1							
One ram died of heartwater							
Makhado, Blouberg Dierekliniek							
Beef: 3							
Ten cases							
Mokopane, Potgietersrus Dierekliniek							
Beef: 2, Sheep: 2, Goat: 2							
Polokwane, Pietersburg Veterinary Clinic							
Beef: 3, Sheep: 3, Goat: 3							
North West							
Rustenburg, Bergbos Dierekliniek							
Dairy: 2							
Stella, Stella Dierekliniek							
Beef: 3							
Ventersdorp, Ventersdorp Dierekliniek							
Sheep: 2							
Vryburg, Vryburg Dierehospitaal							
Beef: 2							
Kwazulu-Natal							
Bergville, Bergville Veterinary Clinic							
Beef: 3							
Bergville, Tugela Vet Clinic							
Beef: 2, Sheep: 2							
Eshowe, Eshowe Veterinary Hospital							
Beef: 2							
Occasional heartwater							
Estcourt, Estcourt Vet Clinic							
Sheep: 1, Goat: 1							
Mooi River, Mooirivier Vet Clinic							
Sheep: 2							
Mtubatuba, Mtubatuba Animal Clinic							
Beef: 2, Goat: 2							
Pietermaritzburg, Richmond Veterinary Clinic							
Sheep: 1							
Pongola, Pongola Animal Clinic							

Beef: 1, Sheep: 1, Goat: 1

### Eastern Cape

#### Grahamstown, Ikhala Veterinary Clinic

Beef: 2

Animals translocated from East London to Grahamstown area. Were blocked at 14-16 days after move with half recommended dose Tetracycline

### Sweating Sickness



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

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

Beef		1.0 (1)	1.5 (2)	2.5 (4)	2.0 (6)	1.0 (1)			1.0 (1)
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### Gauteng

#### Hammanskraal, Themba Animal Clinic

Beef: 1

### Limpopo

#### Makhado, Blouberg Dierekliniek

Beef: 2

Two cases

#### Mokopane, Potgietersrus Dierekliniek

Beef: 1

### North West

#### Christiana, Christiana Dierehospitaal

Beef: 3

#### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

#### Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

#### Vryburg, Vryburg Dierehospitaal

Beef: 3

### Free State

#### Hertzogville, Hertzogville Dierekliniek

Beef: 1

#### Hoopstad, Hoopstad Dierekliniek

Beef: 3

#### Kroonstad, Kroonstad Dierehospitaal

Beef: 2

#### Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

#### Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

#### Winburg, Winburg Dierekliniek

Beef: 2

### Kwazulu-Natal

#### Pongola, Pongola Animal Clinic

Beef: 1

Differential diagnosis: *Parthenium hysterophorus*?

### Northern Cape

#### Postmasburg, Postmasburg Dierekliniek

Beef: 1

Corridor disease									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef						1.0 (1)			
Kwazulu-Natal									
Pongola, Pongola Animal Clinic									
Beef: 1									
Insect Transmittable Diseases									
Lumpy skin disease									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (4)	2.5 (2)	2.3 (4)	2.0 (2)	2.4 (10)	2.3 (13)		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	2.3 (4)	2.5 (2)	2.3 (4)	2.0 (2)	2.4 (10)	2.4 (11)		1.0 (1)	1.0 (1)
Dairy						2.0 (2)			
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
Ermelo, Môregloed Veterinêre Spreekkamer									
Beef: 3									
Middelburg , Middelburg Dierehospitaal									
Beef: 3									
Volksrust, Cape Cross Volksrust Dierehospitaal									
Beef: 2									
Gauteng									
Bronkhorstspuit, Kerkstraat Dierekliniek									
Beef: 2									
Hammanskraal, Themba Animal Clinic									
Beef: 3									
Limpopo									
Makhado, Blouberg Dierekliniek									
Beef: 3									
Twelve case									
Mokopane, Potgietersrus Dierekliniek									
Beef: 3									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1									
Vaalwater, Vaalwater Dieresprekkamer									
Beef: 2									
North West									
Christiana, Christiana Dierehospitaal									

Beef: 2									
Vryburg, Vryburg Dierehospitaal									
Beef: 2									
Free State									
Harrismith, Harrismith Dierehospitaal									
Beef: 3									
Hoopstad, Hoopstad Dierekliniek									
Beef: 3									
Kroonstad, Kroonstad Dierehospitaal									
Beef: 2									
Ladybrand, Ladybrand									
Beef: 2									
Memel, Memel Veterinary Clinic									
Beef: 2									
Parys, Parys Dierehospitaal									
Beef: 2									
Viljoenskroon, Viljoenskroon Dierekliniek									
Beef: 3									
Villiers, Wilgepoort Dierekliniek Vennootskap									
Beef: 2									
Wesselsbron, Wesselsbron Dierekliniek									
Beef: 2									
Winburg, Winburg Dierekliniek									
Beef: 3									
Kwazulu-Natal									
Bergville, Bergville Veterinary Clinic									
Beef: 3									
Bergville, Tugela Vet Clinic									
Beef: 3									
Camperdown, Camperdown Vet Clinic									
Beef: 2									
Dundee, Endumeni Herd health									
Beef: 3, Dairy: 2									
Estcourt, Estcourt Vet Clinic									
Beef: 3, Dairy: 2									
Mooi River, Mooirivier Vet Clinic									
Beef: 2									
Mtubatuba, Mtubatuba Animal Clinic									
Beef: 2									
Pietermaritzburg, Richmond Veterinary Clinic									
Beef: 2									
Pongola, Pongola Animal Clinic									
Beef: 1									
Underberg, Underberg Veterinary Surgery									
Beef: 2									
Vryheid, Vryheid Privaat Veeartse									
Beef: 3									
Western Cape									
Wellington, Wellington Dierehospitaal									
Beef: 1									
Northern Cape									
Postmasburg, Postmasburg Dierekliniek									
Beef: 1									
Three-day-stiffsickness									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape

<b>Average</b>	2.0 (2)	1.5 (2)	2.0 (1)	1.0 (1)	1.5 (6)	1.5 (6)		2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

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

#### **Mpumalanga**

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

Beef: 1

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

Beef: 3

#### **Gauteng**

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

Beef: 2

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

Beef: 1

#### **Limpopo**

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

Beef: 2

#### **North West**

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

Beef: 1

#### **Free State**

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

Beef: 1

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 2

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

Beef: 1, Dairy: 2

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

Beef: 1

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

Beef: 2

#### **Kwazulu-Natal**

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

Beef: 2

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

Beef: 1

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

Beef: 1

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

Dairy: 2

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

Beef: 2

One death reported by farmer - complicated 3 day stiff sickness

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

Beef: 1

#### **Northern Cape**

##### **Colesberg, Karoo Veterinary Hospital**

Beef: 2

## **Blue tongue**





PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)			1.0 (1)	1.8 (6)	1.7 (3)	2.0 (6)	2.2 (6)	

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

Sheep	2.5 (2)			1.0 (1)	1.8 (6)	1.7 (3)	2.0 (6)	2.2 (6)	
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#### Mpumalanga

##### Nelspruit, Nelspruit Animal Hospital

Sheep: 3

##### Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 2

Three farmers reported cases

#### North West

##### Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 1

#### Free State

##### Clocolan, Clocolan Dierekliniek

Sheep: 2

##### Harrismith, Harrismith Dierehospitaal

Sheep: 1

##### Hertzogville, Hertzogville Dierekliniek

Sheep: 2

##### Trompsburg, Dr. Wyn Irwin

Sheep: 2

Not laboratory confirmed

##### Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

##### Winburg, Winburg Dierekliniek

Sheep: 2

#### Kwazulu-Natal

##### Dundee, Endumeni Herd health

Sheep: 1

##### Estcourt, Estcourt Vet Clinic

Sheep: 2

##### Mooi River, Mooirivier Vet Clinic

Sheep: 2

#### Eastern Cape

##### Aliwal North, Hertzogbrug Dierekliniek

Sheep: 2

##### Cradock, Cradock Veterinary Clinic

Sheep: 2

Found blue tongue as well in one Angora

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

Sheep: 2

##### Queenstown, Queenstown Veterinary clinic

Sheep: 2

##### Stutterheim, Stutterheim Veterinary Clinic

Sheep: 2

Three small outbreaks in lambs

##### Witelsbos, Witelsbos Veterinary Consulting Rooms

Sheep: 2

#### Western Cape

##### Caledon, Caledon Dierekliniek

Sheep: 2
<b>Caledon, Overberg Veterinary Hospital</b>
Sheep: 2
<b>Heidelberg (WC), Heidelberg Dierekliniek</b>
Sheep: 2
<b>Piketberg, Piketberg Dierehospitaal</b>
Sheep: 3
Unvaccinated lambs
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Sheep: 2
<b>Wellington, Wellington Dierehospitaal</b>
Sheep: 2

## Venereal Diseases

### Trichomonosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.7 (3)			2.0 (4)	2.3 (6)	2.0 (1)	1.0 (1)		

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

<b>Beef</b>	1.7 (3)			2.0 (4)	2.3 (6)	2.0 (1)	1.0 (1)		
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<b>Mpumalanga</b>
<b>Balfour, Balfour Dierekliniek</b>
Beef: 1
<b>Ermelo, Môregloed Veterinêre Spreekkamer</b>
Beef: 1
<b>Standerton, Econovet</b>
Beef: 3
<b>North West</b>
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>
Beef: 3
<b>Lichtenburg, Dr CM Kruger-Rall</b>
Beef: 1
<b>Ventersdorp, Ventersdorp Dierekliniek</b>
Beef: 1
<b>Vryburg, Vryburg Dierehospitaal</b>
Beef: 3
<b>Free State</b>
<b>Frankfort, Frankfort Dierekliniek</b>
Beef: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 1
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 3
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Beef: 2
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>
Beef: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 2
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>

Beef: 2

#### Eastern Cape

Aliwal North, Hertzogbrug Dierekliniek

Beef: 1

### Vibriosis

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

Level of 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)			
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#### Limpopo

Makhado, Blouberg Dierekliniek

Beef: 1

#### Free State

Winburg, Winburg Dierekliniek

Beef: 2

#### Kwazulu-Natal

Mooi River, Mooirivier Vet Clinic

Beef: 2

New farm

### Pizzle disease

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

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

Sheep								1.0 (1)	
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#### Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

One outbreak

### Bacterial Disease (other)

### Blackquarter

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	2.0 (1)	2.0 (1)	1.0 (1)	2.2 (5)	1.3 (4)	1.0 (1)	1.0 (1)	

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

Beef	1.5 (2)	2.0 (1)	2.0 (1)	1.0	2.3	1.3 (4)	1.0 (1)		
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				(1)	(4)			
<b>Dairy</b>								1.0 (1)
<b>Sheep</b>	1.0 (1)				2.0 (1)			

<b>Mpumalanga</b>								
<b>Balfour, Balfour Dierekliniek</b>								
Beef: 2								
<b>Bethal, Bethal Dierekliniek</b>								
Sheep: 1								
<b>Middelburg , Middelburg Dierehospitaal</b>								
Beef: 1								
<b>Gauteng</b>								
<b>Hammanskraal, Themba Animal Clinic</b>								
Beef: 2								
<b>Limpopo</b>								
<b>Polokwane, Pietersburg Veterinary Clinic</b>								
Beef: 2								
<b>North West</b>								
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>								
Beef: 1								
<b>Free State</b>								
<b>Harrismith, Harrismith Dierehospitaal</b>								
Beef: 3								
<b>Ladybrand, Ladybrand</b>								
Beef: 2, Sheep: 2								
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>								
Beef: 2								
<b>Winburg, Winburg Dierekliniek</b>								
Beef: 2								
<b>Kwazulu-Natal</b>								
<b>Bergville, Bergville Veterinary Clinic</b>								
Beef: 2								
<b>Estcourt, Estcourt Vet Clinic</b>								
Beef: 1								
<b>Mooi River, Mooirivier Vet Clinic</b>								
Beef: 1								
<b>Vryheid, Vryheid Privaat Veeartse</b>								
Beef: 1								
<b>Eastern Cape</b>								
<b>Aliwal North, Hertzogbrug Dierekliniek</b>								
Beef: 1								
<b>Western Cape</b>								
<b>Stellenbosch, Stellenbosch Animal Hospital</b>								
Dairy: 1								

<b>Botulism</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>				1.0 (1)		1.0 (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>				1.0 (1)		1.0 (1)			

<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 1
<b>Western Cape</b>
<b>Caledon, Overberg Veterinary Hospital</b>
Dairy: 3
<b>Northern Cape</b>
<b>Postmasburg, Postmasburg Dierekliniek</b>
Sheep: 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>Mpumalanga</b>
<b>Standerton, Econovet</b>
Sheep: 2
<b>Gauteng</b>
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>
Sheep: 2
<b>Hammanskraal, Themba Animal Clinic</b>
Goat: 2
<b>Limpopo</b>
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Sheep: 1
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Sheep: 1
<b>Free State</b>
<b>Clocolan, Clocolan Dierekliniek</b>
Sheep: 1
<b>Frankfort, Frankfort Dierekliniek</b>
Sheep: 3
<b>Harrismith, Harrismith Dierehospitaal</b>
Sheep: 1
<b>Viljoenskroon, Viljoenskroon Dierekliniek</b>
Sheep: 1
<b>Villiers, Wilgepoort Dierekliniek Vennootskap</b>
Sheep: 2
<b>Eastern Cape</b>
<b>Graaff-Reinet, Camdeboo Veterinary Clinic</b>
Goat: 1
<b>Middelburg (EC), Stevnsburg Dierehospitaal</b>

Sheep: 1									
<b>Stutterheim, Stutterheim Veterinary Clinic</b>									
Sheep: 1									
One outbreak									
<b>Witelsbos, Witelsbos Veterinary Consulting Rooms</b>									
Sheep: 1									
<b>Western Cape</b>									
<b>Oudtshoorn, Oudtshoorn Dierekliniek</b>									
Sheep: 1									
<b>Northern Cape</b>									
<b>Colesberg, Karoo Veterinary Hospital</b>									
Sheep: 2									
<b>Lamb dysentery</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>					1.0 (1)				
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)				
<b>Free State</b>									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Sheep: 1									
<b>Swelled head disease</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		2.0 (1)				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)				2.0 (1)			
<b>Sheep</b>								1.0 (1)	
<b>Gauteng</b>									
<b>Bronkhorstspuit, Kerkstraat Dierekliniek</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Bergville, Bergville Veterinary Clinic</b>									
Beef: 2									
<b>Western Cape</b>									
<b>George, George Animal Hospital</b>									
Sheep: 1									
<b>Redgut (cattle)</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	1.0 (1)			1.0	1.7		1.0 (1)		

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

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

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

Beef: 1

#### **North West**

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

Beef: 1

#### **Free State**

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 2

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

Beef: 1

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

Beef: 2

#### **Eastern Cape**

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

Beef: 1

### **Blood gut (Sheep)**



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>Sheep</b>		1.0 (1)			2.0 (1)				
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#### **Gauteng**

##### **Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 1

#### **Free State**

##### **Harrismith, Harrismith Dierehospitaal**

Sheep: 2

### **Tetanus**



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

##### **Witelsbos, Witelsbos Veterinary Consulting Rooms**

Sheep: 1

Salmonellosis									<a href="#">^</a>
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)				
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 1									
Nelspruit, Nelspruit Animal Hospital									
Beef: 1									
Free State									
Viljoenskroon, Viljoenskroon Dierekliniek									
Beef: 1									
Brucella abortus									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)	2.7 (3)	2.6 (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 (2)	3.0 (2)	2.6 (8)				
Dairy				2.0 (1)					
Limpopo									
Mokopane, Potgietersrus Dierekliniek									
Beef: 1									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1									
North West									
Leeudoringstad, Leeudoringstad Dierekliniek									
Dairy: 2									
Positive cow from neighbouring farm jumped fence and aborted									
Lichtenburg, Dr CM Kruger-Rall									
Beef: 3									
Stella, Stella Dierekliniek									
Beef: 3									
Free State									
Frankfort, Frankfort Dierekliniek									
Beef: 3									
Harrismith, Harrismith Dierehospitaal									
Beef: 2									
Hertzogville, Hertzogville Dierekliniek									
Beef: 3									



**Hoopstad, Hoopstad Dierekliniek**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 3

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 3

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

**Brucella ovis**

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

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

Sheep		2.0 (1)						1.0 (1)	
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**Gauteng****Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

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

Sheep: 1

**Johne`s disease**

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

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

Sheep								2.0 (2)	
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**Western Cape****Caledon, Overberg Veterinary Hospital**

Sheep: 1

**Darling, Tygerberg Dierehospitaal Darling**

Sheep: 3

**Septicaemia**

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

Dairy								2.0 (1)	
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**Western Cape****Riversdale, Riversdal Dierekliniek**

Dairy: 2

<i>E. coli</i>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (6)		2.0 (1)	3.0 (7)	2.9 (11)	1.5 (2)		1.5 (2)	

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

Beef	3.0 (2)		2.0 (1)	3.0 (3)	2.8 (5)	2.0 (1)			
Dairy	2.0 (1)				3.0 (1)			1.5 (2)	
Sheep	3.0 (3)			3.0 (4)	3.0 (5)	1.0 (1)			

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 3

##### Ermelo, Môregloed Veterinêre Spreekkamer

Sheep: 3

##### Middelburg , Middelburg Dierehospitaal

Beef: 3, Sheep: 3

##### Standerton, Econovet

Sheep: 3

##### Volksrust, Cape Cross Volksrust Dierehospitaal

Dairy: 2

#### Limpopo

##### Makhado, Blouberg Dierekliniek

Beef: 2

Five cases

#### North West

##### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

##### Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3

Lambs in lambing pens numerous deaths

##### Stella, Stella Dierekliniek

Beef: 3, Sheep: 3

##### Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3

#### Free State

##### Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 3, Sheep: 3

##### Harrismith, Harrismith Dierehospitaal

Beef: 3, Sheep: 3

##### Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

##### Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 3

##### Winburg, Winburg Dierekliniek

Beef: 3, Sheep: 3

#### Kwazulu-Natal

**Pietermaritzburg, Richmond Veterinary Clinic**

Sheep: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 2

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

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

**Enzootic Abortion**

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)

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

Dairy: 1

**Dermatophilosis (Lumpy Wool)**

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)

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

Sheep: 1

Angora goat

**Bovine Dermatophilosis (Senkobo disease)**

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

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

**Beef**

1.0 (1)

**Kwazulu-Natal****Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

***Fusibacterium necrophorum***

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

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

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

<b>Mpumalanga</b>									
<b>Volkstrust, Cape Cross Volkstrust Dierehospitaal</b>									
Sheep: 2									
Foot rot cases reported by farmers									
<b>Free State</b>									
<b>Wesselsbron, Wesselsbron Direkliniek</b>									
Beef: 1									

<b>Other</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>	3.0 (1)								
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Sheep</b>	3.0 (1)								
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<b>Mpumalanga</b>									
<b>Volkstrust, Cape Cross Volkstrust Dierehospitaal</b>									
Sheep: 3									
<i>Staphylococcus aureus</i> skin infection in 10% of a herd where it caused lameness and even a type foot rot. Sheep recovered quickly after treatment (antibiogram )									

## Protozoal diseases (other)

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

<b>Beef</b>			1.0 (1)						
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<b>Limpopo</b>									
<b>Mokopane, Potgietersrus Direkliniek</b>									
Beef: 1									

<b>Coccidiosis</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>	2.6 (5)	2.0 (2)	1.5 (2)	3.0 (1)	2.3 (4)	2.0 (4)	2.7 (3)	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

<b>Beef</b>	2.5 (2)		2.0 (1)		2.0 (1)	2.0 (1)		
<b>Dairy</b>						2.0 (1)		2.0 (1)
<b>Sheep</b>	2.5 (2)	2.0 (1)	1.0 (1)	3.0 (1)	2.3 (3)	2.0 (2)	3.0 (2)	
<b>Goat</b>	3.0 (1)	2.0 (1)					2.0 (1)	

#### **Mpumalanga**

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

Beef: 3, Sheep: 3

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

Beef: 2, Goat: 3

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

Sheep: 2

#### **Gauteng**

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

Sheep: 2

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

Goat: 2

Two cases

#### **Limpopo**

##### **Makhado, Blouberg Direkliniek**

Beef: 2

Five cases

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

Sheep: 1

#### **North West**

##### **Leeudoringstad, Leeudoringstad Direkliniek**

Sheep: 3

#### **Free State**

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 2, Sheep: 3

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

Sheep: 2

##### **Villiers, Wilgepoort Direkliniek Vennootskap**

Sheep: 2

#### **Kwazulu-Natal**

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

Beef: 2, Dairy: 2

##### **Pietermaritzburg, Richmond Veterinary Clinic**

Sheep: 2

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

Sheep: 2

#### **Eastern Cape**

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

Goat: 2

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

Sheep: 3

##### **Middelburg (EC), Steynsburg Dierehospitaal**

Sheep: 3

#### **Western Cape**

##### **Riversdale, Riversdal Direkliniek**

Dairy: 2

<b>Cryptosporidium</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.8 (5)			3.0 (1)	2.6 (5)	2.5 (2)		3.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.7 (3)			3.0 (1)	3.0 (1)	2.0 (1)			
<b>Dairy</b>					2.0 (1)	3.0 (1)		3.0 (1)	
<b>Sheep</b>	3.0 (2)				2.7 (3)				

#### Mpumalanga

##### Balfour, Balfour Dierekliniek

Beef: 3, Sheep: 3

##### Middelburg , Middelburg Dierehospitaal

Beef: 3, Sheep: 3

##### Standerton, Econovet

Beef: 2

#### North West

##### Vryburg, Vryburg Dierehospitaal

Beef: 3

#### Free State

##### Clocolan, Clocolan Dierekliniek

Beef: 3, Dairy: 2, Sheep: 2

##### Harrismith, Harrismith Dierehospitaal

Sheep: 3

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 3

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 2

##### Underberg, Underberg Veterinary Surgery

Dairy: 3

#### Western Cape

##### Malmesbury, Dr Otto Kriek

Dairy: 3

Cryptosporidia. Important to note that the antibiotics available to us in South Africa will have no effect on Cryptosporidia. Treatment and prevention of this disease involves a holistic approach.

## Fungal diseases

<b>Ringworm</b>									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>		1.0 (2)	1.5 (2)	2.0 (1)	2.0 (1)	2.0 (3)	1.0 (1)	1.7 (3)	

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

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

#### Gauteng

##### Pretoria, Anima Veterinary Consulting Rooms

Beef: 1, Goat: 1

#### Limpopo

##### Makhado, Blouberg Dierekliniek

Beef: 2

Six cases

##### Polokwane, Pietersburg Veterinary Clinic

Beef: 1

#### North West

##### Christiana, Christiana Dierehospitaal

Beef: 2

#### Free State

##### Harrismith, Harrismith Dierehospitaal

Beef: 2

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 2

##### Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

##### Pietermaritzburg, Richmond Veterinary Clinic

Beef: 3

#### Eastern Cape

##### Middelburg (EC), Steynsburg Dierehospitaal

Beef: 1

#### Western Cape

##### Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

##### Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

### Viral Diseases (other)

#### BMC

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)	1.0 (2)	1.3 (3)	1.6 (5)				

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

<b>Beef</b>	1.0 (1)	1.0 (1)	1.0 (2)	1.3 (3)	1.6 (5)				
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#### Mpumalanga

##### Middelburg , Middelburg Dierehospitaal

Beef: 1

#### Gauteng

##### Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1
<b>Limpopo</b>
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 1
<b>Vaalwater, Vaalwater Dieresprekkamer</b>
Beef: 1
<b>North West</b>
<b>Christiana, Christiana Dierehospitaal</b>
Beef: 1
<b>Klerksdorp, Klerksdorp Dierehospitaal</b>
Beef: 1
<b>Ventersdorp, Ventersdorp Dierekliniek</b>
Beef: 2
<b>Free State</b>
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 2
<b>Hertzogville, Hertzogville Dierekliniek</b>
Beef: 1
<b>Hoopstad, Hoopstad Dierekliniek</b>
Beef: 1
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Beef: 1
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3

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

Level of 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)			
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<b>North West</b>
<b>Stella, Stella Dierekliniek</b>
Beef: 3
One outbreak, 29 cattle; one animal
<b>Kwazulu-Natal</b>
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 2
Carrier jackals

BVD (Bovine viral diarrhoea)									<a href="#">^</a>
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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				
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						(1)			
<b>Gauteng</b>									
<b>Hammanskraal, Themba Animal Clinic</b>									
Beef: 1									
<b>Free State</b>									
<b>Harrismith, Harrismith Dierehospitaal</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)			
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>Kwazulu-Natal</b>									
<b>Bergville, Tugela Vet Clinic</b>									
Beef: 2									
<b>BRSV (Bovine respiratory syncytial virus)</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>								1.5 (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>								1.5 (2)	
<b>Western Cape</b>									
<b>Riversdale, Riversdal Dierekliniek</b>									
Dairy: 2									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Dairy: 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>
<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>Dairy</b>								2.0 (1)	
<b>Western Cape</b>									
<b>Riversdale, Riversdal Dierekliniek</b>									
Dairy: 2									
<b>Enzootic Bovine Leucosis (EBL)</b>									<a href="#">^</a>
<b>PROVINCE</b>	<b>Mpumalanga</b>	<b>Gauteng</b>	<b>Limpopo</b>	<b>North</b>	<b>Free</b>	<b>Kwazulu-</b>	<b>Eastern</b>	<b>Western</b>	<b>Northern</b>

				West	State	Natal	Cape	Cape	Cape
<b>Average</b>						2.0 (1)		1.5 (4)	

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

<b>Beef</b>								2.0 (1)	
<b>Dairy</b>						2.0 (1)		1.3 (3)	

#### Kwazulu-Natal

**Underberg, Underberg Veterinary Surgery**

Dairy: 2

#### Western Cape

**George, George Animal Hospital**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

### Orf [^](#)

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)		1.8 (6)	1.5 (4)	1.0 (1)	2.0 (2)	1.0 (1)

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

<b>Sheep</b>			2.0 (1)		2.0 (5)	2.0 (1)		3.0 (1)	
<b>Goat</b>		1.0 (1)			1.0 (1)	1.3 (3)	1.0 (1)	1.0 (1)	1.0 (1)

#### Gauteng

**Pretoria, Anima Veterinary Consulting Rooms**

Goat: 1

#### Limpopo

**Makhado, Blouberg Dierekliniek**

Sheep: 2

Four cases

#### Free State

**Harrismith, Harrismith Dierehospitaal**

Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Sheep: 2, Goat: 1

**Philippolis, Rowelsfontein veearts Spreekkamer**

Sheep: 3

**Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 1

**Winburg, Winburg Dierekliniek**

Sheep: 2

#### Kwazulu-Natal

**Mtubatuba, Mtubatuba Animal Clinic**

Goat: 1

**Pongola, Pongola Animal Clinic**

Goat: 1

**Vryheid, Vryheid Privaat Veeartse**

Sheep: 2, Goat: 2

**Eastern Cape**

**Middelburg (EC), Steynsburg Dierehospitaal**

Goat: 1

**Western Cape**

**George, George Animal Hospital**

Sheep: 3

**Stellenbosch, Stellenbosch Animal Hospital**

Goat: 1

**Northern Cape**

**Postmasburg, Postmasburg Dierekliniek**

Goat: 1

## Warts



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			2.0 (2)	1.5 (2)	1.4 (5)	1.0 (1)	1.3 (3)	

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

Beef	2.0 (2)			2.0 (2)	1.0 (1)	1.4 (5)	1.0 (1)	2.0 (1)	
Dairy								1.0 (2)	
Sheep					2.0 (1)				

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 1

**Nelspruit, Nelspruit Animal Hospital**

Beef: 3

**North West**

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 2

**Vryburg, Vryburg Dierehospitaal**

Beef: 2

**Free State**

**Harrismith, Harrismith Dierehospitaal**

Sheep: 2

**Senekal, Senekal Dierekliniek**

Beef: 1

**Kwazulu-Natal**

**Bergville, Bergville Veterinary Clinic**

Beef: 1

**Camperdown, Camperdown Vet Clinic**

Beef: 1

**Estcourt, Estcourt Vet Clinic**

Beef: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Vryheid, Vryheid Privaat Veeartse**

Beef: 2

**Eastern Cape**

**Port Alfred, Port Alfred Veterinary Clinic**

Beef: 1

Papillomas : Port Alfred one case, Peddie one case

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

Beef: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

**Rota virus**

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

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

Beef					1.0 (1)				
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**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 1

**Corona Virus**

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

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

Beef	2.0 (1)				1.0 (1)				
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**Mpumalanga****Balfour, Balfour Dierekliniek**

Beef: 2

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 1

**Poisonings (Plant) and Fungal****Cestrum (Ink berry)**

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

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

##### Ventersdorp, Ventersdorp Dierekliniek

Beef: 2

#### Cynanchum poisoning (bobbejaantou)

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)	
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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>Dairy</b>	1.5 (2)
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#### Western Cape

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

Dairy: 1

##### Riversdale, Riversdal Dierekliniek

Dairy: 2

#### Facial eczema

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)	
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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)
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<b>Sheep</b>	1.0 (1)	2.0 (1)
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#### Free State

##### Harrismith, Harrismith Dierehospitaal

Beef: 2

#### Eastern Cape

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

Sheep: 1

*Angora goat (Tribulus terrestris)*

#### Western Cape

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

Sheep: 2

#### Geeldikkop/Dikoor

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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<b>Average</b>					2.5		3.0 (1)	2.0 (1)	2.0 (1)
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		(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>Sheep</b>		2.5 (4)		3.0 (1)	2.0 (1)	2.0 (1)
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#### Free State

##### Hertzogville, Hertzogville Dierekliniek

Sheep: 2

##### Hoopstad, Hoopstad Dierekliniek

Sheep: 3

##### Trompsburg, Dr. Wyn Irwin

Sheep: 3

Duwweltjies

##### Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

#### Eastern Cape

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

Sheep: 3

Duwweltjies

#### Western Cape

##### Beaufort West, Beaufort West State Vet

Sheep: 2

Two cases

#### Northern Cape

##### Colesberg, Karoo Veterinary Hospital

Sheep: 2

### Gousiekte



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

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

##### Brits, Brits Dierekliniek

Sheep: 2

### Kikuyu poisoning



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

**Alexandria, Alexandria Platteland Spreekkamer**

Dairy: 1

**Western Cape****Swellendam, Swellendam Dierehospitaal**

Dairy: 1

**Lantana**

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

<b>Average</b>	2.0 (1)					1.0 (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)					1.0 (2)			
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**Mpumalanga****Nelspruit, Nelspruit Animal Hospital**

Beef: 2

**Kwazulu-Natal****Estcourt, Estcourt Vet Clinic**

Beef: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

**Nitrate poisoning**

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

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

<b>Dairy</b>							1.0 (1)		
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**Eastern Cape****Grahamstown, Ikhala Veterinary Clinic**

Dairy: 1

Pastures fertilized with high amounts of Nitrogen fertilizer followed by high rainfall.

**Prussic acid poisoning**

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

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

<b>Beef</b>				2.0 (1)					
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**North West****Stella, Stella Dierekliniek**

Beef: 2

Kweek

## Seneciosis

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

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

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

### Harrismith, Harrismith Dierehospitaal

Beef: 2

**Ladybrand, Ladybrand**

Beef: 2

## Eastern Cape

## Stutterheim, Stutterheim Veterinary Clinic

Beef: 2

## Two outbreaks

## Tulip Poisoning

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

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

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

## Eastern Cape

### Craddock, Craddock Veterinary Clinic

Sheep: 2

Eight rams died, bought. Heart muscle affected.

## Western Cape

### Beaufort West, Beaufort West State Vet

Sheep: 1

## Northern Cape

## Postmasburg, Postmasburg Dierekliniek

Beef: 1

## Vermeersiekte (*Gaigeria* spp.)

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

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



<b>Sheep</b>						1.0 (1)			
<b>Free State</b>									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Sheep: 1									
<b>Poisonings</b>									
<b>Urea Poisoning</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)			
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>Kwazulu-Natal</b>									
<b>Dundee, Endumeni Herd health</b>									
Beef: 1									
<b>Snake Bite</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)	1.3 (3)	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>				2.0 (1)	1.3 (3)	1.0 (1)		1.0 (1)	
<b>North West</b>									
<b>Vryburg, Vryburg Dierehospitaal</b>									
Beef: 2									
<b>Free State</b>									
<b>Hertzogville, Hertzogville Dierekliniek</b>									
Beef: 1									
<b>Wesselsbron, Wesselsbron Dierekliniek</b>									
Beef: 1									
<b>Winburg, Winburg Dierekliniek</b>									
Beef: 2									
<b>Kwazulu-Natal</b>									
<b>Mtubatuba, Mtubatuba Animal Clinic</b>									
Beef: 1									
<b>Western Cape</b>									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Beef: 1									
<b>Other</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)		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)				
Goat							1.0 (1)		
North West									
Leeudoringstad, Leeudoringstad Dierekliniek									
Beef: 1									
Lead poisoning, crash on road alongside camp. Cow ate battery plates and died.									
Eastern Cape									
Graaff-Reinet, Camdeboo Veterinary Clinic									
Goat: 1									
Chicken litter									
Macro Nutritional Problems									
Energy deficiency									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average			3.0 (3)		2.3 (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			3.0 (1)		2.5 (2)			2.0 (1)	
Dairy								3.0 (1)	
Sheep			3.0 (1)		2.0 (1)		2.0 (1)		
Goat			3.0 (1)						
Limpopo									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 3, Sheep: 3, Goat: 3									
Free State									
Harrismith, Harrismith Dierehospitaal									
Beef: 2, Sheep: 2									
Parys, Parys Dierehospitaal									
Beef: 3									
Eastern Cape									
Uitenhage, Uitenhage Dierehospitaal									
Sheep: 2									
Western Cape									
Caledon, Caledon Dierekliniek									
Dairy: 3									
Malmesbury, Malmesbury Dierehospitaal									
Beef: 2									
Protein deficiency									

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

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

## Phosphate deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)	3.0 (1)	3.0 (1)		2.7 (3)	3.0 (1)	2.0 (1)

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

Phosphate deficiency causing calcium uroliths in young oxen (Overloading P12 with salt 4)

#### Western Cape

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

#### Northern Cape

Postmasburg, Postmasburg Dierekliniek

Beef: 2

Calcium deficiency									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		2.0 (1)	3.0 (1)		3.0 (1)	3.0 (1)	

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

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

#### Gauteng

Hammanskraal, Themba Animal Clinic

Beef: 1

#### North West

Vryburg, Vryburg Dierehospitaal

Beef: 2

#### Free State

Parys, Parys Dierehospitaal

Beef: 3

#### Eastern Cape

Humansdorp, Humansdorp Veterinary Clinic

Dairy: 3

#### Western Cape

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

### Micro Nutritional Problems

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

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

Beef				2.0 (1)					
Dairy								3.0 (1)	

#### North West

Vryburg, Vryburg Dierehospitaal

Beef: 2

#### Western Cape

**Caledon, Caledon Dierekliniek**

Dairy: 3

**Selenium deficiency**

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

**Average**2.0  
(1)

3.0 (1)

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**

3.0 (1)

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 2

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

Dairy: 3

**Magnesium deficiency**

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

3.0 (1)

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

**Beef**3.0  
(1)**Dairy**

3.0 (1)

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

Beef: 3

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

Dairy: 3

**Manganese deficiency**

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

**Dairy**

3.0 (1)

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

Dairy: 3

## Vitamin A deficiency

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

Average								2.0 (1)	
---------	--	--	--	--	--	--	--	---------	--

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

Sheep								2.0 (1)	
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### 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
----------	------------	---------	---------	------------	------------	---------------	--------------	--------------	---------------

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)	
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### Western Cape

Caledon, Caledon Dierekliniek

Dairy: 3

## 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	1.4 (5)	1.0 (1)	1.0 (2)		2.4 (7)	2.0 (2)		2.3 (4)	
---------	---------	---------	---------	--	---------	---------	--	---------	--

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

Beef	1.3 (3)		1.0 (1)		2.2 (5)	2.0 (1)		2.0 (1)	
Dairy		1.0 (1)				2.0 (1)		2.3 (3)	
Sheep	2.0 (1)				3.0 (2)				
Goat	1.0 (1)		1.0 (1)						

### Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1, Goat: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Middelburg, Middelburg Dierehospitaal

Beef: 2, Sheep: 2

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Dairy: 1

#### Limpopo

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1, Goat: 1

#### Free State

**Harrismith, Harrismith Dierehospitaal**

Beef: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 1

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2, Sheep: 3

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

**Underberg, Underberg Veterinary Surgery**

Dairy: 2

#### Western Cape

**Malmesbury, Dr Otto Kriek**

Dairy: 3

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 3

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

### Stillbirths



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

#### Free State

**Harrismith, Harrismith Dierehospitaal**

Beef: 2

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Sheep: 2

#### Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

#### Western Cape

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 1

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

**Abscesses**

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

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

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Nelspruit, Nelspruit Animal Hospital**

Goat: 2

Brain abscesses

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

Beef: 2

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1, Goat: 1

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

Goat: 2

**Limpopo****Mokopane, Potgietersrus Dierekliniek**

Beef: 1, Sheep: 1

**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2, Sheep: 2, Goat: 2

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

Sheep: 2

Corynebacterium abscesses

**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 1, Sheep: 1

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 2

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Ladybrand, Ladybrand**

Beef: 2

**Kwazulu-Natal**



**Estcourt, Estcourt Vet Clinic**

Beef: 1, Goat: 2

**Pongola, Pongola Animal Clinic**

Beef: 1

**Vryheid, Vryheid Privaat Veeartse**

Beef: 3

Brown ear-tick infestation playing a major role.

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

Dairy: 1

**Middelburg (EC), Steynsburg Dierehospitaal**

Goat: 1

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

Beef: 2

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 2

Jaw abscesses

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 3, Sheep: 2

**Oudtshoorn, Ostrimed**

Sheep: 1

Sporadic in flocks

**Wellington, Wellington Dierehospitaal**

Sheep: 3

Udder abscesses

**Abscesses in general**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	3.0 (1)			2.1 (8)	1.5 (2)	2.0 (2)	2.7 (3)	1.5 (2)

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

Beef	2.0 (1)	3.0 (1)			2.3 (4)	1.5 (2)		2.0 (1)	
Dairy					1.0 (1)			3.0 (1)	
Sheep					2.3 (3)		2.0 (1)	3.0 (1)	1.0 (1)
Goat							2.0 (1)		2.0 (1)

**Mpumalanga****Nelspruit, Nelspruit Animal Hospital**

Beef: 2

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

Beef: 3

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

Dairy: 1

**Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Memel, Memel Veterinary Clinic**

Beef: 1

**Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1

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

Sheep: 2, Goat: 2

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

Sheep: 3

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 3

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

Sheep: 1, Goat: 2

**Bladder stones**

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)

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)**Free State****Harrismith, Harrismith Dierehospitaal**

Sheep: 1

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

Beef: 2

Phosphate deficiency causing calcium uroliths in young oxen (Overloading P12 with salt 4)

**Blindness**

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

**Average**2.5  
(4)

1.0 (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**

2.3

1.0 (1)

		(3)			
Sheep		3.0 (1)		2.0 (1)	2.0 (1)
Goat			1.0 (1)		

#### Free State

**Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

**Hertzogville, Hertzogville Dierekliniek**

Beef: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic**

Beef: 1, Goat: 1

#### Eastern Cape

**Aliwal North, Hertzogbrug Dierekliniek**

Sheep: 2

#### Western Cape

**Heidelberg (WC), Heidelberg Dierekliniek**

Sheep: 2

Bloat									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.8 (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

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

#### Mpumalanga

**Grootvlei, Grootvlei Dierekliniek**

Sheep: 1

#### Gauteng

**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

#### Free State

**Harrismith, Harrismith Dierehospitaal**

Beef: 2, Sheep: 2

**Kroonstad, Kroonstad Dierehospitaal**

Dairy: 1

**Winburg, Winburg Dierekliniek**

Beef: 2

#### Kwazulu-Natal

**Estcourt, Estcourt Vet Clinic**

Beef: 2

#### Western Cape

**Caledon, Caledon Dierekliniek**

Dairy: 2

### Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Blue udder									<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)		2.0 (1)	2.0 (6)			2.0 (3)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Dairy								2.0 (1)	
Sheep		1.0 (1)		2.0 (1)	2.0 (5)			2.0 (2)	
Goat	2.0 (1)				2.0 (1)				

### Mpumalanga

#### Nelspruit, Nelspruit Animal Hospital

Goat: 2

### Gauteng

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

Sheep: 1

### North West

#### Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 2

### Free State

#### Harrismith, Harrismith Dierehospitaal

Sheep: 2

#### Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

#### Memel, Memel Veterinary Clinic

Sheep: 2

#### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

#### Winburg, Winburg Dierekliniek

Sheep: 2, Goat: 2

### Western Cape

#### Caledon, Caledon Dierekliniek

Sheep: 2

#### Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

#### Stellenbosch, Stellenbosch Animal Hospital

Dairy: 2

Diarrhoea									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (6)	2.0 (1)	1.0 (3)	3.0 (7)	2.9 (14)	1.8 (12)	1.0 (1)	2.2 (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)	2.0 (1)	1.0 (1)	3.0 (4)	2.7 (7)	1.6 (5)		
<b>Dairy</b>					3.0 (1)	2.7 (3)		2.3 (4)
<b>Sheep</b>	2.5 (2)		1.0 (1)	3.0 (3)	3.0 (6)	2.0 (1)	1.0 (1)	2.0 (1)
<b>Goat</b>			1.0 (1)			1.3 (3)		

#### **Mpumalanga**

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

Beef: 3

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

Beef: 2

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

Beef: 3, Sheep: 3

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

Beef: 2, Sheep: 2

#### **Gauteng**

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

Beef: 2

#### **Limpopo**

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

Beef: 1, Sheep: 1, Goat: 1

#### **North West**

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

Beef: 3, Sheep: 3

##### **Stella, Stella Dierekliniek**

Beef: 3, Sheep: 3

##### **Ventersdorp, Ventersdorp Dierekliniek**

Beef: 3, Sheep: 3

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

Beef: 3

#### **Free State**

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

Beef: 2, Dairy: 3, Sheep: 3

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

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

Beef: 3, Sheep: 3

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

Sheep: 3

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

Beef: 3

##### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3

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

Beef: 2, Sheep: 3

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

Beef: 3, Sheep: 3

#### **Kwazulu-Natal**

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

Beef: 2

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

Beef: 1, Goat: 1

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

Dairy: 3

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

Dairy: 2
<i>Cryptosporidium</i> in calves
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2, Sheep: 2, Goat: 2
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1, Goat: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Dairy: 3
Environmental, cryptosporidiosis
<b>Eastern Cape</b>
<b>Middelburg (EC), Steynsburg Dierehospitaal</b>
Sheep: 1
<b>Western Cape</b>
<b>Malmesbury, Dr Otto Kriek</b>
Dairy: 3
Cryptosporidia. Important to note that the antibiotics available to us in South Africa will have no effect on Cryptosporidia. Treatment and prevention of this disease involves a holistic approach.
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3, Sheep: 2
<b>Riversdale, Riversdal Dierekliniek</b>
Dairy: 2
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Dairy: 1

Epididymitis									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average								2.0 (2)	

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

Sheep								2.0 (2)	
<b>Western Cape</b>									
<b>Heidelberg (WC), Heidelberg Dierekliniek</b>									
Sheep: 2									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Sheep: 2									

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

Sheep					1.0 (1)			1.0 (1)	
Free State									
Clocolan, Clocolan Dierekliniek									
Dairy: 1									
Dewetsdorp, Platkop Dierekliniek									
Beef: 2									
Harrismith, Harrismith Dierehospitaal									
Beef: 1, Sheep: 1									
Kroonstad, Kroonstad Dierehospitaal									
Dairy: 2									
Winburg, Winburg Dierekliniek									
Beef: 2									
Eastern Cape									
Aliwal North, Hertzogbrug Dierekliniek									
Sheep: 1									
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
Average	2.1 (7)	2.0 (1)	1.0 (1)	2.4 (9)	2.6 (11)	2.0 (10)	3.0 (4)	1.9 (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	2.3 (4)	2.0 (1)	1.0 (1)	2.4 (5)	2.6 (7)	2.2 (5)	3.0 (1)	1.5 (4)	2.0 (1)
Dairy						2.5 (2)	3.0 (1)	2.4 (7)	
Sheep	2.0 (2)			2.5 (4)	2.8 (4)	2.0 (1)	3.0 (2)	1.7 (3)	
Goat	2.0 (1)					1.0 (2)		1.0 (1)	
Mpumalanga									
Balfour, Balfour Dierekliniek									
Beef: 2, Sheep: 2, Goat: 2									
Ermelo, Moregloed Veterinere Spreekkamer									
Beef: 3, Sheep: 2									
Grootvlei, Grootvlei Dierekliniek									
Beef: 2									
Middelburg , Middelburg Dierehospitaal									
Beef: 2									
Gauteng									
Pretoria, Anima Veterinary Consulting Rooms									
Beef: 2									
Limpopo									
Polokwane, Pietersburg Veterinary Clinic									
Beef: 1									
North West									
Klerksdorp, Buffeldoorn Dierehospitaal									
Sheep: 2									
Klerksdorp, Klerksdorp Dierehospitaal									
Beef: 2, Sheep: 2									

**Lichtenburg, Dr CM Kruger-Rall**

Beef: 3, Sheep: 3

**Stella, Stella Dierekliniek**

Beef: 3, Sheep: 3

**Ventersdorp, Ventersdorp Dierekliniek**

Beef: 2

**Vryburg, Vryburg Dierehospitaal**

Beef: 2

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

Beef: 2, Sheep: 2

**Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

**Parys, Parys Dierehospitaal**

Beef: 3

**Trompsburg, Dr. Wyn Irwin**

Beef: 3

Grazing - tall grass

Sheep: 3

Grazing - tall grass

**Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 3, Sheep: 3

**Wesselsbron, Wesselsbron Dierekliniek**

Beef: 1

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 3

**Bergville, Tugela Vet Clinic**

Beef: 2

**Camperdown, Camperdown Vet Clinic**

Sheep: 2

**Dundee, Endumeni Herd health**

Beef: 3, Dairy: 3

**Estcourt, Estcourt Vet Clinic**

Beef: 1, Goat: 1

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 2

**Pongola, Pongola Animal Clinic**

Goat: 1

**Underberg, Underberg Veterinary Surgery**

Dairy: 2

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

Dairy: 3

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

Sheep: 3

**Middelburg (EC), Steynsburg Dierehospitaal**

Beef: 3, Sheep: 3

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

Sheep: 2

Two outbreaks of contagious kerato-conjunctivitis

**Caledon, Overberg Veterinary Hospital**

Dairy: 2, Sheep: 2

**Malmesbury, Dr Otto Kriek**

Dairy: 2

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 3, Dairy: 3



**Oudtshoorn, Ostrimed**

Beef: 1

Dust, vitamin deficiencies due to drought, vectors in transmission

Sheep: 1, Goat: 1

**Piketberg, Piketberg Dierehospitaal**

Dairy: 3

Calves with eye problems

**Riversdale, Riversdal Dierekliniek**

Dairy: 3

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1, Dairy: 1

**Swellendam, Swellendam Dierehospitaal**

Dairy: 3

**Wellington, Wellington Dierehospitaal**

Beef: 1

*Moraxella bovis***Northern Cape****Postmasburg, Postmasburg Dierekliniek**

Beef: 2

**Joint Ill**

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

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

Beef: 1

**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 2, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 2

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

Beef: 2

**Camperdown, Camperdown Vet Clinic**

Beef: 1, Goat: 1

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

Goat: 1

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

Sheep: 1

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

Beef: 2, Sheep: 2

Lameness/Foot Problems									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)	1.8 (6)		3.0 (2)	2.5 (16)	2.4 (8)	1.7 (3)	2.0 (4)	

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

<b>Beef</b>	1.5 (2)	1.6 (5)		3.0 (1)	2.3 (7)	2.2 (6)		2.0 (1)	
<b>Dairy</b>					2.0 (2)		1.0 (1)	2.0 (3)	
<b>Sheep</b>	3.0 (1)	3.0 (1)		3.0 (1)	2.9 (7)	3.0 (2)	2.0 (2)		

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 2

**Ermelo, Môtregloed Veterinêre Spreekkamer**

Sheep: 3

## Middelburg , Middelburg Dierehospitaal

Beef: 1

## Gauteng

## Bronkhorstspuit, Kerkstraat Dierkliniek

Beef: 1

**Hammanskraal, Themba Animal Clinic**

Beef: 1

**Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Beef: 3

Lots of contagious foot rot in hooves of beef cows and calves kept extensively on veldt.

### Pretoria, Anima Veterinary Consulting Rooms

Beef: 1

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

Beef: 2

Two cattle

Sheep: 3

50 sheep

## North West

**Lichtenburg, Dr CM Kruger-Rall**

Sheep: 3

Foot abscess

**Vryburg, Vryburg Dierehospitaal**

Beef: 3

## Free State

**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 2

Foot rot

**Clocolan, Clocolan Dierekliniek**

Beef: 2, Dairy: 2, Sheep: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 2, Sheep: 3

**Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

**Hertzoqville, Hertzoqville Dierekliniek**

Sheep: 3
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Beef: 2, Dairy: 2, Sheep: 3
<b>Memel, Memel Veterinary Clinic</b>
Sheep: 3
<b>Parys, Parys Dierehospitaal</b>
Beef: 2
<b>Philippolis, Rowelsfontein veearts Spreekkamer</b>
Sheep: 3
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Bergville, Bergville Veterinary Clinic</b>
Beef: 2
<b>Estcourt, Estcourt Vet Clinic</b>
Beef: 2
<b>Mooi River, Mooirivier Vet Clinic</b>
Beef: 3, Sheep: 3
<b>Pietermaritzburg, Richmond Veterinary Clinic</b>
Beef: 2
<b>Pongola, Pongola Animal Clinic</b>
Beef: 1
<b>Underberg, Underberg Veterinary Surgery</b>
Beef: 3, Sheep: 3
<b>Eastern Cape</b>
<b>Alexandria, Alexandria Platteland Spreekkamer</b>
Dairy: 1
<b>Graaff-Reinet, Graaff Reinet Veterinary Clinic</b>
Sheep: 2
<b>Grahamstown, Ikhala Veterinary Clinic</b>
Sheep: 2
Farmers been undertreating for Heartwater blocking. Suspect resistance. Environmental conditions favour foot rot. No culture done.
<b>Western Cape</b>
<b>Malmesbury, Dr Otto Kriek</b>
Dairy: 2
<b>Malmesbury, Malmesbury Dierehospitaal</b>
Dairy: 3
<b>Stellenbosch, Stellenbosch Animal Hospital</b>
Beef: 2
<b>Swellendam, Swellendam Dierehospitaal</b>
Dairy: 1

Lung infection									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.9 (8)	2.5 (2)	1.0 (3)	2.0 (3)	2.0 (8)	1.8 (6)	1.4 (5)	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	2.3 (4)		1.0 (1)	2.0 (3)	2.3 (4)	1.8 (6)	1.0 (1)	2.0 (1)	
Dairy					1.0 (1)		1.0 (1)	1.5 (2)	

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

#### **Mpumalanga**

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

Beef: 2

Pasteurellosis -2

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

Sheep: 1

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

Beef: 2, Sheep: 1, Goat: 1

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

Beef: 3, Sheep: 3

##### **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 2

weaners

#### **Gauteng**

##### **Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 2

##### **Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Sheep: 3

*Pasteurella* pneumonia in intensive sheep farming lamb units.

#### **Limpopo**

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

Beef: 1, Sheep: 1, Goat: 1

#### **North West**

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

Beef: 1

One calf in feedlot died of lung problems. Had bale rope in the rumen.

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

Beef: 2

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

Beef: 3

*Pasteurella multocida* outbreaks - 4 died on one farm, 2 on another farm.

#### **Free State**

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

Beef: 3, Dairy: 1, Sheep: 3

##### **Harrismith, Harrismith Dierehospitaal**

Beef: 2, Sheep: 1

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

Sheep: 2

##### **Viljoenskroon, Viljoenskroon Dierekliniek**

Beef: 2

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

Beef: 2

#### **Kwazulu-Natal**

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

Beef: 3

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

Beef: 2

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

Beef: 1

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

Beef: 1

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

Beef: 2

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

Beef: 2

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

Dairy: 1

**Graaff-Reinet, Camdeboo Veterinary Clinic**

Goat: 2

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

Goat: 2

**Port Alfred, Port Alfred Veterinary Clinic**

Beef: 1

Pleuritis after diaphragmatic hernia : Shaw Park one case

**Uitenhage, Uitenhage Dierehospitaal**

Goat: 1

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

Sheep: 2

**George, George Animal Hospital**

Sheep: 3

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 2

**Swellendam, Swellendam Dierehospitaal**

Dairy: 1

**Northern Cape****Calvinia, Calvinia Veeartskliniek**

Sheep: 3

**Mastitis in general**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
<b>Average</b>	2.0 (2)	1.0 (3)			2.0 (2)	1.7 (3)	1.3 (3)	2.1 (7)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
<b>Beef</b>	2.0 (1)	1.0 (3)			2.0 (1)	1.0 (2)	1.0 (2)	1.0 (1)	
<b>Dairy</b>						3.0 (1)	2.0 (1)	2.3 (6)	
<b>Sheep</b>	2.0 (1)				2.0 (1)				

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

Beef: 2, Sheep: 2

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

Beef: 1

**Hammanskraal, Themba Animal Clinic**

Beef: 1

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

Beef: 1

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

Sheep: 2

**Memel, Memel Veterinary Clinic**

Beef: 2

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

Dairy: 3

Estcourt, Estcourt Vet Clinic

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Beef: 1

Port Alfred, Port Alfred Veterinary Clinic

Beef: 1

Shaw Park one case

Western Cape

Caledon, Caledon Dierekliniek

Dairy: 3

George, George Animal Hospital

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Dairy: 3

Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 1

Swellendam, Swellendam Dierehospitaal

Dairy: 2

Navel Ill

PROVINCE

Mpumalanga

Gauteng

Limpopo

North West

Free State

Kwazulu-Natal

Eastern Cape

Western Cape

Northern Cape

Average

1.0 (1)

2.0 (1)

1.8 (4)

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

1.0 (1)

2.0 (1)

1.7 (3)

Dairy

1.7 (3)

Sheep

2.0 (1)

Mpumalanga

Balfour, Balfour Dierekliniek

Beef: 1

North West

Vryburg, Vryburg Dierehospitaal

Beef: 2

Free State

Harrismith, Harrismith Dierehospitaal

Beef: 2, Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 2

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

## Red gut (Sheep)



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

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

Sheep					3.0 (1)			2.0 (1)	
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## Free State

**Harrismith, Harrismith Dierehospitaal**

Sheep: 3

## Western Cape

**George, George Animal Hospital**

Sheep: 2

## Trauma



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

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

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

## Gauteng

**Hammanskraal, Themba Animal Clinic**

Beef: 1

## Free State

**Harrismith, Harrismith Dierehospitaal**

Beef: 3, Sheep: 3

## Kwazulu-Natal

**Camperdown, Camperdown Vet Clinic**

Goat: 1

Fractured metacarpus

**Mooi River, Mooirivier Vet Clinic**

Beef: 1

Traumatic pericarditis - wire

## Eastern Cape

**Aliwal North, Hertzogbrug Dierekliniek**

Sheep: 2

**Humansdorp, Humansdorp Veterinary Clinic**

Dairy: 2

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

Dairy: 2

**Riversdale, Riversdal Dierekliniek**

Beef: 1, Dairy: 1

**Downer**

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

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

Beef		2.0 (1)		2.0 (1)	3.0 (1)		1.0 (1)	1.0 (1)	
Dairy					2.0 (1)			2.3 (3)	

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

Beef: 2

Two cases

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

Beef: 2

**Free State****Harrismith, Harrismith Dierehospitaal**

Beef: 3

**Kroonstad, Kroonstad Dierehospitaal**

Dairy: 2

**Eastern Cape****Grahamstown, Ikhala Veterinary Clinic**

Beef: 1

3 month old calf. Responsive to steroids and vitamin B1

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

Dairy: 2

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Riversdale, Riversdal Dierekliniek**

Beef: 1, Dairy: 2

**Other**

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)	

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

<b>Gauteng</b>
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>
Sheep: 1
Rectal prolaps
<b>Hammanskraal, Themba Animal Clinic</b>
Beef: 1
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Goat: 1
Vaginal atresia
<b>Western Cape</b>
<b>Darling, Tygerberg Dierehospitaal Darling</b>
Dairy: 2
Insect allergies

## Metabolic Diseases

### Acidosis

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)			1.5 (4)	1.0 (1)	2.0 (1)	2.2 (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>					2.0 (2)			2.0 (1)	
<b>Dairy</b>								2.5 (2)	
<b>Sheep</b>	2.0 (1)	2.0 (1)			1.0 (2)		2.0 (1)	2.0 (2)	
<b>Goat</b>						1.0 (1)			

<b>Mpumalanga</b>
<b>Bethal, Bethal Dierekliniek</b>
Sheep: 2
<b>Gauteng</b>
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>
Sheep: 2
<b>Free State</b>
<b>Harrismith, Harrismith Dierehospitaal</b>
Beef: 1, Sheep: 1
<b>Kroonstad, Kroonstad Dierehospitaal</b>
Sheep: 1
<b>Winburg, Winburg Dierekliniek</b>
Beef: 3
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Goat: 1
<b>Eastern Cape</b>
<b>Witelsbos, Witelsbos Veterinary Consulting Rooms</b>

Sheep: 2

#### Western Cape

**Darling, Tygerberg Dierehospitaal Darling**

Dairy: 2

Subclinical acidosis

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 3, Sheep: 3

**Stellenbosch, Stellenbosch Animal Hospital**

Sheep: 1

### Displaced abomasum

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

Dairy						2.0 (1)		2.5 (2)	
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#### Kwazulu-Natal

**Dundee, Endumeni Herd health**

Dairy: 2

#### Western Cape

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 2

**Piketberg, Piketberg Dierehospitaal**

Dairy: 3

Replaced abomasum's due to poor roughage - drought

### Ketosis

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

Dairy								1.0 (1)	
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Sheep								2.0 (1)	
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#### Western Cape

**Caledon, Overberg Veterinary Hospital**

Sheep: 2

**Malmesbury, Invitrotech**

Dairy: 1

### Milk Fever

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

## North West

## Vryburg, Vryburg Dierehospitaal

Beef: 2

## Free State

## Clocolan, Clocolan Dierekliniek

Beef: 1

## Winburg, Winburg Dierekliniek

Beef: 2

## Western Cape

### George, George Animal Hospital

Dairy: 3

## Malmesbury, Invitrotech

Dairy: 1

## Malmesbury, Malmesbury Dierhospitaal

Dairy: 3

**Riversdale, Riversdal Dierkliniek**

Beef: 1, Dairy: 2

## Reproductive diseases

Dystocia (Difficult Births)									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (9)	1.6 (5)		2.5 (2)	2.2 (18)	1.7 (7)	2.0 (3)	1.8 (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

<b>Beef</b>	1.8 (5)	2.0 (1)		3.0 (1)	2.3 (11)	1.8 (4)	2.0 (3)	1.5 (2)	2.0 (1)
<b>Dairy</b>					2.0 (1)			2.0 (2)	
<b>Sheep</b>	1.3 (3)	1.5 (2)		2.0 (1)	2.0 (6)	1.5 (2)			2.0 (1)
<b>Goat</b>	2.0 (1)	1.5 (2)				2.0 (1)			

**Mpumalanga**

**Balfour, Balfour Dierekliniek**

Beef: 2, Sheep: 2, Goat: 2

## Bethal, Bethal Dierekliniek

Sheep: 1

## Ermelo, Môregloed Veterinêre Spreekkamer

Beef: 1, Sheep: 1

## Grootvlei, Grootvlei Dierekliniek

Beef: 2

Middelburg , Middelburg Dierhospitaal

Beef: 3

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 1

## Gauteng

**Bapsfontein, Bapsfontein Dierehospitaal**

Beef: 2, Sheep: 2, Goat: 2

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

Sheep: 1, Goat: 1

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

Beef: 3

**Ventersdorp, Ventersdorp Dierekliniek**

Sheep: 2

**Free State****Bultfontein, Greylingrust Dieresprekkamer**

Beef: 3

Heifers

Sheep: 1

**Clocolan, Clocolan Dierekliniek**

Beef: 2

**Dewetsdorp, Platkop Dierekliniek**

Beef: 2

**Harrismith, Harrismith Dierehospitaal**

Beef: 2, Sheep: 3

**Hertzogville, Hertzogville Dierekliniek**

Beef: 2

**Hoopstad, Hoopstad Dierekliniek**

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal**

Beef: 2, Dairy: 2

**Memel, Memel Veterinary Clinic**

Beef: 2, Sheep: 2

**Parys, Parys Dierehospitaal**

Beef: 2

**Viljoenskroon, Viljoenskroon Dierekliniek**

Sheep: 1

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 2, Sheep: 2

**Winburg, Winburg Dierekliniek**

Beef: 3

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

Beef: 2

**Mooi River, Mooirivier Vet Clinic**

Beef: 2

**Mtubatuba, Mtubatuba Animal Clinic**

Beef: 1, Sheep: 1

**Underberg, Underberg Veterinary Surgery**

Beef: 2, Sheep: 2, Goat: 2

**Eastern Cape****Aliwal North, Hertzogbrug Dierekliniek**

Beef: 2

**Middelburg (EC), Steynsburg Dierehospitaal**

Beef: 3

**Uitenhage, Uitenhage Dierehospitaal**

Beef: 1

**Western Cape****Malmesbury, Dr Otto Kriek**

Dairy: 2

**Malmesbury, Malmesbury Dierehospitaal**

Beef: 2, Dairy: 2

**Stellenbosch, Stellenbosch Animal Hospital**

Beef: 1

**Northern Cape**

**Postmasburg, Postmasburg Dierekliniek**

Beef: 2, Sheep: 2

**Endometritis**

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

Beef					1.0 (1)				
Dairy					2.0 (1)	1.0 (1)		2.5 (4)	

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

Dairy: 2

**Ladybrand, Ladybrand**

Beef: 1

**Kwazulu-Natal****Estcourt, Estcourt Vet Clinic**

Dairy: 1

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

Dairy: 3

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 2

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Metritis**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)	2.0 (1)				1.0 (1)		2.3 (4)	

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

Beef	1.0 (1)	2.0 (1)							
Dairy								2.3 (4)	
Sheep	1.0 (1)								
Goat	1.0 (1)					1.0 (1)			

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

Beef: 1, Sheep: 1, Goat: 1

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

Beef: 2

One pyometra

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

Goat: 1

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

Dairy: 3

**Malmesbury, Dr Otto Kriek**

Dairy: 1

**Malmesbury, Malmesbury Dierehospitaal**

Dairy: 3

**Riversdale, Riversdal Dierekliniek**

Dairy: 2

**Poor conception**

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 (3)	3.0 (1)	3.0 (2)	

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

Beef	2.0 (2)				1.5 (2)	2.0 (2)			
Dairy						2.0 (1)		3.0 (1)	
Sheep							3.0 (1)	3.0 (1)	

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

Beef: 1

**Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 3

One herd with severe conception problems - busy investigating

**Free State****Dewetsdorp, Platkop Dierekliniek**

Beef: 2

**Harrismith, Harrismith Dierehospitaal**

Beef: 1

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

Beef: 2

**Pietermaritzburg, Richmond Veterinary Clinic**

Beef: 2

Early indications of poor conception

**Underberg, Underberg Veterinary Surgery**

Dairy: 2

**Eastern Cape****Middelburg (EC), Steynsburg Dierehospitaal**

Sheep: 3

Ewes mate in November and December had conception below 50%

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

Dairy: 3

**Vredenburg, Vredenburg Dierehospitaal**

Sheep: 3

Poor conception due to drought

Retained afterbirth									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.0 (1)			1.5 (2)	2.0 (2)		2.3 (4)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef	1.0 (1)	1.0 (1)			2.0 (1)	2.0 (1)			
Dairy						2.0 (1)		2.3 (4)	
Sheep					1.0 (1)				
Goat	1.0 (1)								
<b>Mpumalanga</b>									
<b>Balfour, Balfour Dierekliniek</b>									
Beef: 1, Goat: 1									
<b>Gauteng</b>									
<b>Bapsfontein, Bapsfontein Dierehospitaal</b>									
Beef: 1									
<b>Free State</b>									
<b>Harrismith, Harrismith Dierehospitaal</b>									
Beef: 2									
<b>Ladybrand, Ladybrand</b>									
Sheep: 1									
<b>Kwazulu-Natal</b>									
<b>Bergville, Bergville Veterinary Clinic</b>									
Beef: 2									
<b>Underberg, Underberg Veterinary Surgery</b>									
Dairy: 2									
<b>Western Cape</b>									
<b>Caledon, Caledon Dierekliniek</b>									
Dairy: 3									
<b>Malmesbury, Dr Otto Kriek</b>									
Dairy: 1									
<b>Malmesbury, Malmesbury Dierehospitaal</b>									
Dairy: 3									
<b>Stellenbosch, Stellenbosch Animal Hospital</b>									
Dairy: 2									
Sheath Prolaps									<a href="#">^</a>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)			1.0 (1)	1.5 (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)	1.5 (2)			

**Ermelo, Môregloed Veterinêre Spreekkamer**

Beef: 1

## Gauteng

**Hammanskraal, Themba Animal Clinic**

Beef: 1

## Free State

### Kroonstad, Kroonstad Dierehospitaal

Beef: 1

## Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic**

Beef: 2

## Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

## Uterus prolaps

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.5 (8)	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

<b>Beef</b>		2.0 (1)	1.5 (6)	2.0 (1)	
<b>Dairy</b>					1.5 (2)
<b>Sheep</b>			1.5 (2)		

## North West

### Vryburg, Vryburg Dierehospitaal

Beef: 2

## Free State

### Bultfontein, Greylingrust Dierespreekkamer

Beef: 1

## Clocolan, Clocolan Dierekliniek

Beef: 2

## Harrismith, Harrismith Dierehospitaal

Beef: 2, Sheep: 2

## Ladybrand, Ladybrand

Beef: 1

**Villiers, Wilgepoort Dierekliniek Vennootskap**

Beef: 1, Sheep: 1

### Winburg, Winburg Dierekliniek

Beef: 2

## Kwazulu-Natal

### Bergville, Bergville Veterinary Clinic

Beef: 2

## Western Cape

**Heidelberg (WC), Heidelberg Dierekliniek**

Dairy: 1

**Malmesbury, Malmesbury Dierhospitaal**

Dairy: 2

## Vaginal (Cervical) prolaps



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)	1.7 (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

Beef		1.0 (1)		2.0 (1)	1.8 (4)	3.0 (1)			
Sheep	2.0 (1)				1.7 (3)				

#### Mpumalanga

##### Ermelo, Môregloed Veterinêre Spreekkamer

Sheep: 2

#### Gauteng

##### Bapsfontein, Bapsfontein Dierehospitaal

Beef: 1

#### North West

##### Vryburg, Vryburg Dierehospitaal

Beef: 2

#### Free State

##### Harrismith, Harrismith Dierehospitaal

Beef: 2, Sheep: 2

##### Hertzogville, Hertzogville Dierekliniek

Beef: 1

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

##### Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

##### Winburg, Winburg Dierekliniek

Beef: 2

#### Kwazulu-Natal

##### Bergville, Bergville Veterinary Clinic

Beef: 3

### Climatical Cause

#### Cold exposure



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

#### Eastern Cape

##### Middelburg (EC), Steynsburg Dierehospitaal

Beef: 3, Sheep: 3, Goat: 3

#### Drought



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (4)	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							2.0 (1)	3.0 (1)	
Sheep							2.0 (1)		
Goat							2.0 (1)		

#### Eastern Cape

##### Witelsbos, Witelsbos Veterinary Consulting Rooms

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

#### Western Cape

##### Piketberg, Piketberg Dierehospitaal

Dairy: 3

Low butterfat in milk from dairy cows

### Heat stress



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

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

Beef								3.0 (1)	
Dairy								3.0 (2)	
Sheep								3.0 (1)	

#### Western Cape

##### Malmesbury, Dr Otto Kriek

Dairy: 3

All cows should have adequate shade. Cows with mastitis, foot problems, close-up cows and fresh cows often get neglected in terms of providing shade. Direct and indirect losses incurred by this practice are huge. An escalation in the incidence of abortions at this time of year is probably due to heat stress.

##### Malmesbury, Malmesbury Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3

### Lightning



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)				2.3 (7)	2.3 (3)	2.0 (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	2.0 (1)				2.2 (6)	2.3 (3)	2.0 (3)	2.0 (1)	1.0 (1)
Dairy	3.0 (1)								

Sheep

3.0  
(1)

MpumalangaErmelo, Môregloed Veterinêre SpreekkamerBeef: 2, Dairy: 3Free StateClocolan, Clocolan DierekliniekBeef: 2Dewetsdorp, Platkop DierekliniekSheep: 3Harrismith, Harrismith DierehospitaalBeef: 3Kroonstad, Kroonstad DierehospitaalBeef: 2Ladybrand, LadybrandBeef: 2Memel, Memel Veterinary ClinicBeef: 2Winburg, Winburg DierekliniekBeef: 2Kwazulu-NatalBergville, Bergville Veterinary ClinicBeef: 2Dundee, Endumeni Herd healthBeef: 2Underberg, Underberg Veterinary SurgeryBeef: 332 cattle diedEastern CapeAlexandria, Alexandria Platteland SpreekkamerBeef: 2Aliwal North, Hertzogbrug DierekliniekBeef: 2Queenstown, Queenstown Veterinary clinicBeef: 2Western CapeSwellendam, Swellendam DierehospitaalBeef: 2Northern CapePostmasburg, Postmasburg DierekliniekBeef: 1ResiduesDrug residuesPROVINCEMpumalangaGautengLimpopoNorth WestFree StateKwazulu- NatalEastern CapeWestern CapeNorthern CapeAverage1.0 (1)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reportedDairy1.0 (1)Western CapeDarling, Tygerberg Dierehospitaal DarlingDairy: 1Antibiotic residues in milk

## Non specific diseases

### Cause of death not established

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

#### Mpumalanga

##### Nelspruit, Nelspruit Animal Hospital

Beef: 1

#### Western Cape

##### Riversdale, Riversdal Dierekliniek

Beef: 1, Dairy: 1

### Preditors

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.0 (1)	2.3 (7)		3.0 (1)	1.0 (2)	

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

Beef				2.0 (1)	2.0 (3)			1.0 (1)	
Sheep	3.0 (1)				2.5 (4)		3.0 (1)	1.0 (1)	

#### Mpumalanga

##### Volksrust, Cape Cross Volksrust Dierehospitaal

Sheep: 3

lots of problems reported by farmers

#### North West

##### Vryburg, Vryburg Dierehospitaal

Beef: 2

#### Free State

##### Clocolan, Clocolan Dierekliniek

Beef: 2

##### Harrismith, Harrismith Dierehospitaal

Beef: 2, Sheep: 3

##### Philippolis, Rowelsfontein veearts Spreekkamer

Sheep: 3

##### Villiers, Wilgepoort Dierekliniek Vennootskap

Sheep: 2

##### Winburg, Winburg Dierekliniek

Beef: 2, Sheep: 2

#### Eastern Cape

##### Middelburg (EC), Steynsburg Dierehospitaal

Sheep: 3

Dog attacks on increase around towns

## Western Cape

### Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

dogs

Sheep: 1

dogs

## Sabotation - Theft

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				2.0 (2)	2.5 (10)				

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

Beef				2.0 (2)	2.6 (5)				
Dairy					1.0 (1)				
Sheep					2.8 (4)				

## North West

### Brits, Brits Dierekliniek

Beef: 2

### Vryburg, Vryburg Dierehospitaal

Beef: 2

## Free State

### Clocolan, Clocolan Dierekliniek

Beef: 3, Dairy: 1, Sheep: 3

### Frankfort, Frankfort Dierekliniek

Beef: 2, Sheep: 2

### Harrismith, Harrismith Dierehospitaal

Beef: 2, Sheep: 3

### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 3, Sheep: 3

### Winburg, Winburg Dierekliniek

Beef: 3

## Trauma

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

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

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

<b>Gauteng</b>
<b>Hammanskraal, Themba Animal Clinic</b>
Beef: 1, Goat: 1
<b>Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic</b>
Beef: 2
Two fractures, twolacerations
<b>Limpopo</b>
<b>Polokwane, Pietersburg Veterinary Clinic</b>
Beef: 1
Traumatic pericarditis (wire protruding into heart sack)
<b>Free State</b>
<b>Ladybrand, Ladybrand</b>
Beef: 1
<b>Parys, Parys Dierehospitaal</b>
Beef: 1
Traumatic pericarditis (wire protruding into heart sack)
<b>Kwazulu-Natal</b>
<b>Camperdown, Camperdown Vet Clinic</b>
Sheep: 1
Large ventral hernia