

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

March 2021

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

These reports include data from individual practices

Click on Disease Reports

The following practices and laboratories (144) submitted reports during March 2021:

Mpumalanga (11)

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

Gauteng (12)

Bapsfontein – Drs. Engelbrecht and Olivier
Bronkhorstspruit – Dr. De Bruin, De Bruin and Labuschagne
Hammanskraal – Dr. Hentie Engelbrecht
Irene – Dr. Maggie Wepener
Krugersdorp-Veeartsnetwerk – Dr. Danie Odendaal
Magaliesburg – Dr. Ryan Jeffery
Nigel – Dr. Cindy van der Westhuizen
Nigel – Dr. Henry Labuschagne

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

Pretoria – Dr. Hanneke Pienaar

Rayton – Dr. Frans Malan

Vanderbijlpark – Dr. Kobus Kok

Limpopo (9)

Bela-Bela (Warmbaths) – Dr. Nele Sabbe

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

Bela – Bela – Dr. Bernadien Malan

Hoedspruit – Dr. Llana van Wyk

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

Mokopane (Potgietersburg) – Dr. Henk Visser

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

Tzaneen – ZZ2 Farm Practice - Dr. Danie Odendaal

Vaalwater – Dr. Hampie van Staden

North West (15)

Beestekraal – Dr. Alwyn Venter

Bloemhof – Dr. Cizelle Naude

Brits – Drs. Boshoff and Coertze

Brits – Dr. Gerhardus Scheepers

Christiana – Dr. Pieter Nel

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

Leeudoringstad – Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie-Krüger-Rall

Potchefstroom – Dr. Martin Jordaan

Rustenburg – Drs. Grobler, Sparks, Stoffberg en Otterman

Schweizer-Reneke – Dr. Pieter Venter

Stella - Dr. Magdaleen Vosser

Ventersdorp – Drs. Van der Merwe and Cilliers

Vryburg – Drs. De Jager and Rautenbach

Zeerust - Dr. Lizahn Venter

Free State (29)

Bethlehem – Drs. Strydom and Strydom

Bethlehem – Dr. J. C. du Plessis

Bloemfontein – Dr. Stephan Wessels

Bloemfontein – Dr. Lizanne Meiring

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Kleynhans

Dewetsdorp – Dr. Marike Badenhorst
Excelsior – Dr. Dédé Nel
Ficksburg – Dr. Woody Kotzé
Frankfort – Drs. Lessing, Cilliers and Janse van Rensburg
Harrismith – Dr. Wim Slabber
Hoopstad – Dr. Kobus Pretorius
Hoopstad – Dr. Cassie van der Walt
Kroonstad – Drs. Daffue, Eksteen, Van Zyl and Van der Walt
Kroonstad – Drs. Wessels en Bester
Memel – Drs. Nixon and Nixon
Oranjeville - Dr. D’Wall Hauptfleisch
Parys – Drs. Wessels and Wessels
Reitz – Dr. Murray Smith
Senekal – Dr. Jan Blignaut
Senekal – Dr. Theo Kotze
Smithfield – Dr. Nienke van Hasselt
Viljoenskroon – Dr. Johan Kahts
Vrede – Drs. Bester-Cloete, Myburgh and Roos
Vrede – Dr. Rudolph Fourie
Warden – Dr. Paul Reynolds
Wesselsbron – Dr. Johan Jacobs
Winburg – Drs. Albertyn and Albertyn
Zastron – Drs. Troskie and Strauss

KwaZulu-Natal (13)

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

Eastern Cape (15)

Alexandria – Dr. Charlene Boy
Alexandria – Dr. Johan Olivier

Aliwal North – Drs. Troskie and Strauss
Bathurst – Dr. Jane Pistorius
Cradock – Dr. Frans Erasmus
Elliot - Drs. Clowes, Lees, Malan, Koekemoer, Cronje and Kilian
Graaff- Reinet - Dr. Roland Larson
Graaff-Reinet – Hobson, Strydom and Hennesy
Humansdorp – Drs. Van Niekerk, Jansen van Vuuren and Davis
Jeffreys Bay – Drs. Lategan and Hoek
Kareedouw – Dr. Marten Bootsma
Queenstown – Drs. Du Preez, Klopper, Jansen van Vuuren, De Klerk, Catherine and Wentzel
Steynsburg – Dr. Johan van Rooyen
Uitenhage – Drs. Mulder and Krüger
Witelsbos – Dr. Elmien Kotze

Western Cape (22)

Beaufort West - Dr. Jaco Pienaar
Beaufort West – Dr. Bennie Grobler
Caledon – Drs. Louw and Viljoen
Caledon – Drs. Small, Greyling and Viljoen
Darling – Drs. Van der Merwe, Adam, Jenkins and Lord
George- Dr. Riaan Putter
Heidelberg – Dr. Albert van Zyl
Malmesbury – Dr. Otto Kriek
Malmesbury – Drs. Heyns and Zolner
Malmesbury – Dr. Andries Lesch
Malmesbury – Drs. Bosman and Groenewald
Moorreesburg – Dr. Suenett Kotzé
Oudtshoorn – Dr. Glen Carlisle
Oudtshoorn – Dr. Adriaan Olivier
Paarl – Dr. Carla van der Merwe
Piketberg – Dr. André van der Merwe
Plettenberg Bay – Dr. André Reitz
Stellenbosch – Dr. Alfred Kidd
Swellendam – Drs. Malan and Fourie
Vredenburg – Dr. Izak Rust
Wellington – Drs. Van Zyl and Louw
Worcester – Drs. De Wet and Rabe

Northern Cape (7)

Calvinia – Dr. Bertus Nel
Colesberg – Drs. Rous and Rous
De Aar – Dr. Donald Anderson

Kathu – Dr. Jan Vorster
Kimberley – State Vet Group
Postmasburg – Dr. Boeta van der Merwe
Upington – Drs. Vorster, Visser and Oosthuizen

Feedlots (2)

Dr. Eben Du Preez
Drs. Morris, Morris and Le Riche

Biosecurity consultant (1)

Dr. Theo Kotzé – Bloemfontein

Laboratory reports (8)

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

“Bovine Brucellosis and Asiatic red water– It is mostly due to your own fault”

Case studies

Contact was made with veterinarians that reported outbreaks of bovine brucellosis during March 2021 to ascertain why brucellosis outbreaks occurred on the farms.

Case 1:

In a herd of 700 cattle more than 200 cattle tested positive. Previously the herd tested negative for brucellosis. No cattle were brought into the herd. It is thought that the only way the disease could get onto the farm was from cattle on an adjacent which had not been tested. Infected flies could be involved. This is difficult to prove.

On another farm 15 cattle aborted, do not know how animals became infected.

Case 2:

A few farms were bought. Bought many cattle to stock these farms. After testing for brucellosis found many positive. Up to now about 100 positive animals were slaughtered.

Case 3:

Speculate with cattle. Test and slaughter positive animals. Communal cattle grazing alongside roads. Coming in contact with other cattle along fences.

Case 4:

Before cattle are bought, the Animal Health Technician test the cattle for brucellosis. Only negative cattle are brought to the farm

Case 5:

A close herd tested yearly negative for brucellosis. When testing bulls for fertility, one bull tested positive. The whole herd was tested, and 100 animals tested positive. No abortions occurred. Heifers vaccinated with RB 51.

Case 6:

Biggest crisis is speculators. Buying animals at auctions.

Case 7: Low positive titres due to Strain 19 vaccination reactions.

Summary:

- Farmers buy cattle at auctions with unknown disease status
- Cattle on adjacent farms not tested for brucellosis.
- Brucellosis is an area disease
- Positive stray cattle could cause outbreaks
- Insufficient knowledge of the disease by farmers
- Positive animals not branded with a C on the neck
- Insufficient funding to control the disease (vehicles, petrol, manpower)
- Role flies play in the transmission of disease
- Vendor declarations

Take responsibility for animal health or face the consequences.

Below are links that are available for your perusal:

#BrakesonBrucellosis

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

Brucellosis Campaign: What is Brucellosis?

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

Brucellosis awareness – do you know?

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

Brucellosis - Have you tested?

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

Brucellosis - Dangers of consuming raw dairy products

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

Brucellosis – The silent enemy in humans

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

Brucellosis - The Trojan Horse for your herd

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

Brucellosis: Is a herd disease

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

Brucellosis: Cattle branding – C=Brucellosis positive

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

Brucellosis – Farmer Responsibility

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

Brucellosis – Abattoirs

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

Brucellosis – Is the consumer at risk for contracting Brucellosis?

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

Brucellosis – Prevention for the Veterinarian and Para-Veterinarian

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

Biosecurity guidelines

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

1. During a FMD outbreak it is the producer's responsibility to keep their animals from getting infected.
2. Although FMD does not pose a food safety or public health concern it has a major impact on animal health and international trade.
3. Each commercial farm should appoint a biosecurity manager.
4. A written biosecurity plan is a basic requirement.
5. Development of a plan must be done by the biosecurity manager with assistance from a veterinarian.
6. The biosecurity plan must include a line of separation/demarcation of the biosecurity area.
7. Training:
 - a. Train all personnel in biosecurity principles at least annually.
8. Access:
 - a. Access points to the area must be identified and demarcated clearly.
 - b. Loading site must be identified away from animals.
 - c. A cleaning and disinfection station needs to be made available and should be away from any animals and an SOP for cleaning of all vehicles entering the biosecurity area must be adhered to.
 - d. Parking areas away from animal areas must be provided.
 - e. Vehicle movement pathways must be mapped.
 - f. Draw up a map demarcating all these areas.
 - g. The control boundary should always be respected and identified to all personnel.
 - h. No access of vehicles or personnel to the biosecure area unless via proper decontamination protocols. People with any suspected contact with infected animals (or having been in an affected area) should stay away from "clean animals for at least a week.
 - i. Access points should be respected, well demarcated and procedures of access described. Biosecurity Guidelines-FMD 2019-11-19 2
 - j. Animals arriving on the farm should only be directly from a guaranteed healthy herd accompanied by signed and dated veterinary health certificates.
 - k. Personnel entering the biosecure area should shower and change clothing before entering the area.
 - l. Logbooks of all persons, vehicles, equipment etc entering or leaving the biosecure area should be kept.

m. No entry of persons, vehicles or products should be allowed if not expressly permitted by the biosecurity officer.

n. Feed brought into the biosecure area should only be from sources determined by the biosecurity manager.

o. For further information go to www.securebeef.org

9. Quarantine:

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

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

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

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

The basis of Disease Control is Animal Identification and Traceability

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

Very important legislation regarding the biosecurity rules for livestock agents

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

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

BACKGROUND and DEFINITIONS:

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

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

a) The rules for auctions in this document.

b) Registration with the Agricultural Produce Agents Council (APAC) is compulsory and only registered agents will be allowed to conduct business.

c) Acceptance of responsibilities in terms of Sections 11 and 26 of the Animal Diseases Act, Act 35 of 1984. This gazette is also available free online at www.gpwonline.co.za 206 No. 43900 GOVERNMENT GAZETTE, 13 NOVEMBER 2020

d) An external audit of the auction facilities and all procedures, including these rules for auctions, will be undertaken by an independent auditor, these audits will need to be submitted to APAC bi-annually.

e) Every livestock agent must appoint a Biosecurity practitioner (a person registered with the South African Veterinary Council).

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

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

“Animal Owner Health Attestation” is a signed declaration from the owner of the animals that attests: This gazette is also available free online at www.gpwonline.co.za STAATSKOERANT, 13 NOVEMBER 2020 No. 43900 207 3

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

Identification of animals

a) All animals accepted at an auction must be properly and permanently marked with the owner’s registered mark in accordance with the Animal Identification Act, Act 6 of 2002, and regulations published in Government Gazette no 25732 of 21 November 2003.

b) Animals without registered marks shall not be off-loaded at the biosecure area.

c) No freshly branded animals may be accepted.

d) No animals with wet paint marks of previous auctions may be accepted within 28 days after the previous sale.

e) No branding or marking of animals is allowed on the auction premises.

f) The auctioneer must ensure the registered brand belongs to the owner, check the brand marking certificate and ID of the owner and driver/transporter where applicable and to follow up any suspicious brands with the local Stock Theft Unit. The livestock agent must insist on a confirmation of their reporting of the noncompliance with the Stock Theft Act and keep these on record

g) The ear tag / identity tag for each animal's individual identification – as per the Livestock Identification and Traceability System, shall correspond with the list of animals in the Original Animal Owner Health **Attestation**.

Checking animals arriving at auctions

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

Summary of disease report for March 2021

144 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 11; Gauteng (G) 12; Limpopo (L) 9; Northwest (NW) 15; Free State (FS) 29; KwaZulu-Natal (KZN) 13; Eastern Cape (EC) 15; Western Cape (WC) 22; Northern Cape (NC) 7; Feedlots (FL) 2; Bovine consultant (BC) 1 and Laboratories (Lab) 8)

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

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

	Number of provinces reporting
Roundworms	9
Wireworm	9
Coccidiosis	9
Blue ticks	9
Bont-legged ticks	9
Blue tongue	9

Orf	9
Abortions	9
Abscesses	9
Eye infections	9
Lameness/foot problems	9
Dystocia (difficult birth)	9
Uterine prolaps	9
Brown ear-ticks	8
African red water	8
Asiatic red water	8
Anaplasmosis	8
Heartwater	8
Lumpy skin disease	8
Ephemeral fever (three-day stiff sickness)	8
Ringworm	8
Diarrhoea	8
Joint ill	8
Lung infection	8
Retained afterbirth	8
Resistant roundworms	7
Liver fluke	7
Cryptosporidiosis	7

Midges	7
Pulpykidney	7
Pasteurellosis	7
<i>E. coli</i>	7
Downer	7
Heartwater ticks	6
Nuisance flies	6
Bovine brucellosis	6
Enzootic abortion	6
Warts	6
Snake bite	6
Energy deficiency	6
Blue udder	6
Mastitis	6
Trauma	6
Poor conception	6
Vaginal prolaps	6
Conical fluke	5
Red-legged ticks	5
Trichomonosis	5
Blackquarter	5
Swelled head	5

Blood gut (sheep)	5
Bovine dermatophilosis (Senkobo disease)	5
Lantana	5
Protein deficiency	5
Selenium deficiency	5
Stillbirths	5
Bloat	5
Eye cancer	5
Acidosis	5
Metritis	5
Lightning	5

Bovine Brucellosis

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

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

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

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

It is available in English and Afrikaans.

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

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

VENDOR DECLARATION BOVINE BRUCELLOSIS

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

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

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

Owner or authorised representative:

Signature:

Date:

**** * Biosecurity**

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

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

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

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

OVINE JOHNE'S DISEASE VENDOR DECLARATION

ON THE SALE OF SHEEP

(Updated Draft May 2015)

1. I hereby declare that I am the owner or authorised representative of the sheep on sale and am competent to make this declaration.

YES	NO
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2. The sheep for sale are clearly identified in the accompanying description.

YES	NO
-----	----

3. The sheep for sale were born on my farm.

YES	NO
-----	----

4. The farm has a closed flock policy. (No live sheep are brought onto the farm from elsewhere)

YES	NO
-----	----

5. I know the signs of the disease and to the best of my knowledge, all of my properties are free of cases of Ovine Johne's Disease.

YES	NO
-----	----

6. I have actively looked for Ovine Johne's Disease and have had tests done for this.

YES	NO
-----	----

7. To the best of my knowledge, my immediate neighbours and farms in my magisterial district of my farm(s) are free of cases of Ovine Johne's Disease.

YES	NO
-----	----

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



SOP for the control of Bovine Brucellosis

Audit date: _____

Authorised person: _____

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

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

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

National Animal Health Forum

www.nahf.co.za

Read what the Forum is all about:

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

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

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

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

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

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

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

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

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

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

This link will continuously be updated.

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

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

Rural Veterinary Association of South Africa

www.ruvasa.co.za

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

Internal parasite control

www.wormx.info

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

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

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

Insist on VENDOR'S DECLARATIONS when buying animals.

Quarantine

Immunization programmes

Speak to your veterinarian

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

For the detailed report and previous reports go to www.ruvasa.co.za 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	x
Resistant roundworms	x	x		x	x	x	x	x	
Wireworm	x	x	x	x	x	x	x	x	x
Brown stomach-worm							x	x	
Long-necked bankruptworm									
White bankruptworm									
Large-mouthed bowelworm									
Nodularworm			x		x				x
Lungworm									
Eyeworm									
<i>Parafilaria</i>			x	x		x			
Tapeworms		x	x		x	x			
Liver fluke	x			x	x	x	x	x	x
Conical fluke	x			x	x	x	x		
Cysticercosis (measles)		x			x		x		
Schistosomiasis (bilharzia)									
Coccidiosis	x	x	x	x	x	x	x	x	x
Cryptosporidiosis	x	x		x	x	x		x	
<i>Giardia</i>									

Wireworm outbreaks have been reported from all 9 provinces. On some farms mortality rate was excessive!

BEWARE

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

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

Get advice from your veterinarian to ascertain which dewormer group(s) are still effective on your farm by doing a faecal egg count resistance test (FECRT)

Group code	Generic class of actives	Example of actives
1*	Macrocyclic lactones (ML's)	Abamectin Doramectin Eprinomectin Ivermectin Moxidectin

2*	Benzimidazoles (white drugs)	Albendazole Fenbendazole Febental Ricobendazole Triclabendazole
3*	Imidathiazoles (clear drugs)	Levamisole Morantel
4*	Salicylanilides	Closantel Niclosamide Oxiclozanide Rafoxanide Resorantel
5*	Phenols	Nitroxinyl
6*	Sulphonamides	Clorsulon
7*	Organophosphates	Trichlorfon
8*	Isoquinolones	Praziquantel
9*	Others Amino-acetonitryl-derivatives (AAD's)	Piperazine Monepantel
10*	Spiroindoles	Derquantel

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

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

Cryptosporidiosis outbreaks, causing huge losses were reported from 6 provinces. This deadly condition has now spread to the Western Cape. A product has been registered to treat animals against this deadly parasite. Good colostrum protects new born animals. Biosecurity should be practised at all levels on the farm.

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXink3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0l10.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric

Prevention of Cryptosporidiosis

Prevention is the best control method.

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

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

Ensure no nutritional deficiencies especially vitamin A and Selenium

Excellent bio-security management

Ensure clean pathogen free water sources

Hygiene training of personnel

Consult your veterinarian

SOLUTION

HOLISTIC INTERNAL PARASITE MANAGEMENT FOR SHEEP AND GOATS

Gareth Bath, Jan van Wyk and Faffa Malan

INTRODUCTION

Over the past ten to fifteen years there has been a radical rethink on our previous worm control strategies and assumptions due to the ever-accelerating failure of anthelmintics globally. This

has caused a quiet but drastic revolution in many of the “received wisdoms” which governed advice to farmers for close to a century.

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

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

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

WORM MANAGEMENT PRINCIPLES

A FLOCK MANAGEMENT REQUIREMENTS

Separation of Groups

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

Identify the groups most at risk

Research has shown that the more susceptible animals are lambs/weanlings; and pregnant/lactating ewes. The former is susceptible because they cannot yet mount an

effective immune response to infection, the latter are prone to infection because of a temporary suppression of immunity. (PPRR). These groups must get special attention.

Separation of pastures

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

Resting of pastures

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

Alternation of host species

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

Mend water leaks

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

Avoid grass in pens

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

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

Fence off moist areas

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

Strategic movement of flocks

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

Quarantine and treatment

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

B GENETIC SELECTION

Selection for resistance

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

Selection for resilience

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

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

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

C MONITORING SYSTEMS

FEC

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

FECRT

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

FAMACHA[®] evaluation

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

D OPTIMISE ANTHELMINTIC USE

Establish the important parasites species present

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

Use the most suitable drug

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

Avoid too frequent treatment

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

Treat all and stay

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

Treat selectively

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

Move then treat

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

Herbal Remedies

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

E IMPROVED ANTHELMINTIC EFFICACY

Dose over the tongue

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

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

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

Reduce feed intake

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

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

Repeat the dose

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

Increase the dose

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

Correct dosage

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

Drug combinations

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

Sustained delivery

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

Goats are different

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

F EFFECTIVE PLANNING

Use the expert

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

Use a programme

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

Flexibility

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

Treatment strategy

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

II OTHER MEASURES AND FACTORS

Protein supplementation

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

Condition scoring

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

Weather monitoring

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

Flock/Herd history

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

Veld/pasture assessment and history

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

Assessment and decision support computer programmes

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

III CONTROL MEASURES UNDER DEVELOPMENT

Predacious fungi

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

Dilution of resistance

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

Vaccination

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

Condensed Tannins

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

Cupric oxide

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

Change in body weight

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

IV INTEGRATED PARASITE MANAGEMENT

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

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

V ACTION CHECKLIST

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

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

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

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

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

https://www.google.co.za/search?hl=en&tbm=isch&source=hp&biw=1344&bih=608&ei=PyxyXOO7OcutkwXinK3oCA&q=cryptosporidium+parvum&oq=Cryptosporidium&gs_l=img.1.1.0110.2885.9850..16402...0.0..0.708.5719.2-4j4j3j2j1.....0....1..gws-wiz-img.....0.o66yefU7Ric

External parasites

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

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

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

Numerous mortalities were reported!

Anaplasmosis outbreaks were reported from all 9 provinces. Biting flies are the main transmitters of this disease.

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

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

Beware of moving susceptible animals into areas where infected ticks are present or moving animals with infected ticks to disease free areas! Before deciding to buy animals speak to both veterinarians – from the area moving the animals and the area where they are going to.

Tick toxicosis

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

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

Insect transmittable diseases

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

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

Huge outbreaks of insect-transmitted diseases are reported!

Vaccines are available, the only reason why there were so many outbreaks of lumpy skin disease, blue tongue and three-day-stiff sickness, could be that animals were not vaccinated or that the cold chain was broken! Now is the time to ensure that your animals are protected against insect-transmitted diseases, in time, for the next rainy season! The last RVF outbreak was in May 2018.

http://www.scielo.org.za/scielo.php?script=sci_arttext&pid=S0030-24652013000100002

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

When outbreaks occur sufficient stocks of vaccines may not be available.

Pregnant animals are to be vaccinated with the inactivated vaccine!

Study the packet insert!

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

BEWARE

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

Make sure to buy bulls from farmers where biosecurity measures are in place and bulls are tested for these diseases at regular intervals. Trichomonosis was reported from 5 provinces.

Veneral diseases are a HERD diseases! Calculate your losses if these diseases are not eradicated on your farm!

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

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

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

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

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

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

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

Bacterial diseases

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

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

Interdigital dermatitis									
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Most of the bacterial diseases can be prevented by vaccination! Discuss and update your programme regularly in consultation with your local veterinarian!

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

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

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

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

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

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

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

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

Calves may become infected when drinking infected colostrum!

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

PREVENTION IS BETTER AND CHEAPER THAN TREATMENT!

Do not save yourself bankrupt!

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

Viral diseases

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

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

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

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

Bromoxynil nitrate									
Ionophor									
Monensin									
Hypo								x	
Diazinon									
Glyphosate									
Chicken litter									
Medicated maize seed									

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

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

Urea poisoning occurs every now and then on farms. **Make sure that licks containing urea are mixed and formulated properly. Many mortalities were reported where mixing instructions and calculations were not followed correctly! Make sure that licks containing urea do not get wet during the rainy season.**

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

Nutritional deficiencies

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

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

Phosphate				X	X				
Calcium					X	X		X	

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

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

Micro-nutritional and vitamin deficiencies

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

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

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

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

Beware of fluoride poisoning as borehole water levels drop.

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

Multifactorial diseases and other conditions

The following conditions were reported by practices in the provinces

Multifactorial diseases and other conditions	MP	G	L	NW	FS	KZN	EC	WC	NC
Abortions	X	X	X	X	X	X	X	X	X
Stillbirths	X			X	X	X		X	
Abscesses	X	X	X	X	X	X	X	X	X
Intestinal ulcers									
Bladder stones –urolithiasis		X			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	X
Eye cancer		X		X	X	X		X	
Eye infections	X	X	X	X	X	X	X	X	X
Skin lymphoma									
Joint ill	X	X	X	X	X	X	X		X
Cystitis									
Icterus									
Lameness/foot problems	X	X	X	X	X	X	X	X	X
Lung infection	X	X		X	X	X	X	X	X
Mastitis		X		X	X	X	X	X	
Navel ill				X	X	X	X		
Umbilical hernia									
Red gut (sheep, torsion of gut)				X					

Rectal prolaps			x						
Rumen stasis									
Abdominal impaction									
Abdominal hernia									
Floppy kid syndrome									
Swelsiekte									
Traumatic reticulo-pericarditis				x	x				
Trauma	x			x	x	x		x	x
Teeth wear									
Plastic bags (ingestion)									
Downer		x	x	x	x	x		x	x
Poor condition									
Anaphylactic shock									
Immune incompetence									
Vestibular syndrome (middle ear infection)	x								
Hernia									
Deformaties									
Wet carcasses at abattoir		x							
Yellow carcasses at abattoir								x	

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

The cause of abortions should be established: brucellosis, enzootic abortion, Q-fever, leptospirosis, Rift valley fever, etc. The necessary preventative measures can then be taken.

In the CODE OF CONDUCT of the RPO the following standard operating procedures are documented. The local veterinarian should be your partner to help you achieve the necessary standards.

<http://www.rpo.co.za/BestPractices/English.aspx>

PRECAUTIONARY MEASURES TO SUPPORT BIO-SECURITY.

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

2. PURCHASES FROM SALES OR SPECULATORS

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

Visually inspect the animals before purchasing for:

* brand marks

* parasite infestation

3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

4. ARRIVAL ON THE FARM

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

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

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

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

Inspect regularly

5. FEED PURCHASES

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

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

6. VISITORS

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

7. EMPLOYEES

Do not allow the employees to eat in feed stores
Supply employees with sufficient ablution facilities
Regularly arrange to let employees be medicated for tape worm and have health check-ups
Keep record of all employee livestock on the property
Treat employee livestock with separate but dedicated health programs
Ensure employees understand the reason behind the implemented bio-security measures to help ensure compliance.

GENERAL AND REPRODUCTION MANAGEMENT

Record keeping: All animals are individually identified and recorded.
To prove ownership: All animals are marked with the registered brand mark according to the Animal Identification Act, No 6 of 2002.
A defined breeding season is the basis of effective management: The breeding season coincides with the rainy season, i.e. the period when nutritive value of the pasture is at its best.
Sufficient energy reserves in the herd as measured by condition scoring are vital, especially for effective breeding, and when inadequate the herd is supplemented in consultation with a nutritionist: Condition scoring of bulls and cows are regularly done, particularly at the onset of the breeding season and supplemented if necessary.
Bull - cow ratios are maintained: A ratio of 1 to 25 is maintained in every separate herd.
Fertility of breeding bulls: All breeding bulls are tested for mating ability and semen quality before the breeding season.
Sexually transferable diseases: Sheath washes or scrapes on bulls are performed annually.
Diseases that can cause poor conception, abortion or weak calves: Cows are vaccinated against such diseases in consultation with the veterinarian.
Breeding success monitored by a veterinarian: Rectal pregnancy or scan diagnosis is done by the veterinarian 8 weeks after the breeding season.
Twenty percent of cows or more not pregnant: Further tests are done to determine cause of low pregnancy rate.
Culling of non-pregnant cows: Non-pregnant cows are removed from the herd and considered a necessary bonus to supporting herd income.

HERD HEALTH AND BIO-SECURITY

Maintenance of herd health is key to a successful enterprise: A veterinarian should visit the farm bi-annually at least.
Calf mortality before 3 months of age is an important reason for poor weaning percentage: Good management practices are applied to limit early calf deaths.
Some diseases and parasites (internal and external) are more often encountered in specific areas: Annual vaccinations and a parasite control program should be applied according to regional requirements and in liaison with the veterinarian.
Farmers selling weaned calves to feedlots may want to have a market advantage compared to others: A specific vaccination program is applied before weaning for that purpose.

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

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

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

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

Practices that had nothing to report

Beestekraal – Dr. Alwyn Venter

Cape Town - Dr. Sophette Gers

George – Dr. Mark Chimes

Kareedouw - Dr. Marten Bootsma

Kathu – Dr. Jan Vorster

Malalane - Drs. Van Sittert and Van Sittert

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

Stellenbosch (Eisenburg) – Dr. Annelie Cloete

Vanderbylpark- Dr. Kobus Kok

Ostriches

Western Cape

Oudtshoorn

Tapeworms	1
Cryptosporidium	1
<i>E. coli</i>	2
Protein, Energy deficiency, poor growth	3 - Autumn temp fluctuations and chicks returnig from growers-feed refusal or poor intake – becomes a negative/ catabolic downward spiral
Eye infection	3 - Nusiance flies/ dust/. Severely affected sinusitis and conjunctivitus
Selenium deficiency	3

Vitamin E deficiency	3
Red gut	3 – Feed intake up and down/ leads to GIT disturbance and Redgut – clostridial enteroxaemia
Diarrhoea	3
Soil pica	3 - Social/ environmental and adjustment stress = boredom or displaced behaviour, high water intake = moist areas in camps and soil pica
Water contamination	3 - Brackish water – high sodium chloride content – reduced intake of feed and slower growth. When ostriches moved to freshwater significant improvement.
Rectal prolaps	3 - Soil pica and heat stress = cryptosporidium exposure increased dramatically with immune compromise
Heat stress	3 - Vit E selenium def – Contracted tendons and muscle lesions (pale) with severe weakness

Equines

Mpumalanga

Lydenburg

Red-legged ticks – 3

Theileriosis (Babesiosis) -1

Trauma - 1

Rayton

Theileriosis – 3

Colic -3

African Horse Sickness – 3

Gauteng

Bapsfontein

African Horse sickness – 2

Equine encephalitis virus - 2

Nigel

African Horse Sickness – 9 horses ill, 4 died. Suspected

Limpopo

Makhado

African Horse Sickness – 8 cases

North West**Leeudoringstad**

African Horse Sickness – reported by farmer

Lichtenburg

African Horse Sickness – Four case

Free State**Bethlehem**

Colic - 2

Kwa-Zulu Natal**Kokstad/Elliot**

Midges – 3

Lameness – 3

Trauma – 2

Phleg -leg - 1

Northern Cape**Colesberg**

Abortions – After first cold weather

Kwazulu-Natal**Pongola**

Nuisance flies - 1

Eastern Cape**Alexandria**

Eye infection – 1

Game**Mpumalanga****Lydenburg**

Lameness – 1 Sable

Gauteng**Pretoria**

Eye infection - 1

Limpopo**Bela Bela**

Diarrhoea – Sable, treated recovered
Rumen acidosis – Giraffe, died
Metritis – Rhino after calving, recovered after intensive treatment

Hoedspruit

Wireworm – 1 Roan
Bont-legged ticks – 2 Roan and Buffalo
Snares – 3

North West

Schweizer-Reneke

Wireworm – 2 Gemsbok died

KwaZulu-Natal

Pongola

Nuisance flies - 1

Swine

Limpopo

Mokopane

Erysipelas - 1

Monthly report on Livestock and Wildlife isolations for March 2021 from Vetdiagnostix –Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

Vetdiagnostix microbiology

Bovine Respiratory Disease in feedlot cattle yielded *Pasteurella multocida* [2], *Mannheimia haemolytica* [2], *Bibersteinia trehalosi* (was *P. haemolytica* T), *Histophilus somni*, *Mycoplasma*, *Klebsiella pneumoniae*, *Staphylococcus pseudintermedius* and *Trueperella pyogenes*. Respiratory disease in sheep was due to *M. haemolytica* and *P. multocida*. *P. multocida* also caused pneumonia in a pig.

Pneumonia in calves was due to *Salmonella* Dublin [4]. *S. Dublin* often presents as a primary pneumonia, and not as enteritis, in contrast to most other *Salmonella* types.

Enteritis in calves was associated with *E. coli* [2] and *Clostridium perfringens* [5], *E. coli* in pigs, and an isolate from enteritis in goat kids was due to a pathogenic isolate of *E. coli* which produced the virulence factor *stx 2*.

Vaginal infections, mastitis and septicaemia in cattle yielded *Trueperella pyogenes*. *T. pyogenes* is very resistant in the environment and can survive for months on thorns and sharp projections, as well as on the mouthparts of ticks. *T. pyogenes* also caused lung and other abscesses in sheep and pigs. *Streptococcus porcinus* and *S. dysgalactiae* also caused abscessation in pigs.

Gangrenous myositis in cattle was caused by *Clostridium novyi* [5], *C. septicum* [2], *C. sordellii* [2] and *C. chauvoei*.

Yersinia enterocolitica which is rarely isolated, caused septicaemia in cattle. *Yersinia* is not often isolated from animals as the personnel of many laboratories are not on the alert for it. It is generally carried by rodents but as it causes enteritis and septicaemia in all animals, the source may be other animals in the vicinity. *Y. enterocolitica* caused enteritis in a dog from Limpopo last year.

Abscessation in sheep was due to *Actinobacillus lignieresii*. This type of abscessation is usually seen in the head and neck of ruminants, and is often associated with thorny grazing and the change from temporary teeth to permanent ones.

The only significant isolate from wildlife was *Staphylococcus pseudintermedius* from pyoderma in a lion.

Monthly report for March 2021 from Dr R D Last (BVSc; M.Med.Vet(Path); MRCVS)

Specialist Veterinary Pathologist, Vetdiagnostix - Veterinary Pathology Services

LIVESTOCK DISEASE SURVEILLANCE			
LIVESTOCK SPECIES	DISEASE AGENT	NO. CASES	LOCATION
BOVINE ADULT	CESTRUM POISONING	1	OYSTER BAY, E.CAPE
BOVINE STEER	CLOSTRIDIUM SORDELLI MYOSITIS	1	DUNDEE, KZN
BOVINE COW	BIBERSTEINIA TREHALOSI PNEUMONIA	1	SWELLENDAM, W.CAPE
BOVINE COW	OAK POISONING	1	HOWICK, KZN
BOVINE COW	MALIGNANT CATTARHAL FEVER	1	DUNDEE, KZN
BOVINE COW	CHRONIC ANAPLASMOSIS	1	MIDDELBURG, MPUMULANGA
BOVINE CALVES	TOXIC HEPATOSIS	1	UNDERBERG, KZN

Monthly March 2021 report: Dr Theo Kotzé – Biosecurity/Mastitis consultant Bloemfontein

0827849706@vodamail.co.za

0827849706

Diagnostic monthly report

No anti microbial resistant (AMR) or zoonotic organisms isolated.

No State controlled or notifiable diseases to report.

**Feedlot report received from Dr. Eben du Preez for March 2021
(edupreez1@telkomsa.net)**

Condition	Comments and Specie
Parafilaria	B 2
Blue ticks	B 3
Bont ticks	B 3
Red legged-ticks	B 3, O 3
Bont-legged ticks	B 3
Nuisance flies	B 3, O 3
Blowflies	B 2
Anaplasmosis	B 3
Heartwater	B 1
Ephemeral fever (3 day stiff sickness)	B 3
Blackleg	B 1
Swelled head	O 1
Red gut	B 3
Botulism	B
Pericarditis	B 2
Ringworm	B 3
IBR	B 2
BVD	B 1

EBL	B 1
Warts	B 3
Cestrum (ink berry)	B 2
Phosphate deficiency	B 1
Zinc deficiency	B 3
Dystocia	B 1
Joint ill	B 3
Lameness	B 3, O 1
Lungs	B 3, O 3
Diarrhoea	B 3, O 3
Abscesses	B 3, O 1
Eye infection	B 3, O 3
Trauma	B 3, O 1

Feedlot report received from Drs. Morris and Le Riche March 2021
[**\(shaun@octavoscene.co.za\)**](mailto:shaun@octavoscene.co.za)

Condition	Comments and Specie
<i>Parafilaria</i>	B 2
African red water	B 3
Asiatic red water	
Lumpy skin disease	B 3 even lesions in the meat
Ephemeral fever (Three-day stiff sickness)	B 3
Lumpy wool	O 1
Gousiekte (Sheep, Ventersdorp)	B 3

Vomitoxin (Mycotoxin) in maize	Swine 3
Lungs (interstitial pneumonia) Underlying feed problem, dust)	B 3

Monthly report on Livestock and Wildlife isolations for March 2021 from IDEXX Laboratories supplied by dr. Liza du Plessis (Liza-DuPlessis@idexx.com)

Condition	Comments and Specie
Wireworm	O 1
Coccidiosis	C 1
Heartwater tick	B 2, E 2
Red legged tick	E 1
African red water	B 1
Anaplasmosis	B 1
Ephemeral fever (# day stiff sickness)	B 2
Pulpy kidney	G 1
Dermatophylosis	G 1
Cardiotoxicity	O 3, C 1
Hepatotoxicity - Inkberry	
Abortion	B 1
Lungs - bacterial (aspiration pneumonia)	B 1
Bacterial enteritis	B 2, G 1
Bacterial hepatitis	B 1, G 1
Fusibacterial hepatitis	B 1

Chronic peitonitis	B 1
Dystocia	B 2

Monthly report from Dr. Mark Chimes for March 2021 – Dairy Standards

Nothing to report

Monthly report from Dr. Emily Mitchell March 2021 - Wildlife cases: Faculty of Veterinary Science



Section of Pathology
Department of Paraclinical Sciences
Faculty of Veterinary Science

20 April, 2021

Import/Export Policy Unit Subdirectorare

Monthly report: Faculty of Veterinary Science cases

Wildlife cases sent to referring veterinarians between 23rd Feb and 20th April, 2021

Cases from State vet Skukuza or Orpen

Cases imported with master permit

PMDate	Species	Final	Histo No
27-Jan-21	African Black Footed Cat	Salmonellosis	S260-21
11-Feb-21	African Elephant	Normal lung, lymph node (TB monitoring)	S431-21
11-Mar-21	Lion	Perivascular dermatitis	713-21
15-Mar-21	Giraffe	Possible enterotoxaemia	741-21
17-Mar-21	Cheetah	Grade 3 gastritis	771-21
23-Mar-21	Giraffe	Suspected metabolic/nutritional disease	814-21
04-Mar-21	Blacksmith Plover	Anaemia, malnutrition	632-21
03-Mar-21	Red billed teal	Anaemia, malnutrition	632-21
02-Feb-21	Lion	Normal reproductive tract	308-21
11-Feb-21	Lion	Presumed bovine tuberculosis	S432-21
11-Feb-21	Leopard	Normal lymph node, lung (TB monitoring)	S434-21
11-Feb-21	Hippopotamus	Normal lung and lymph node (tuberculosis monitoring)	S435-21
12-Mar-21	Pigeon	Viral enteritis and hepatitis	S720-21
12-Feb-21	Cheetah	Gastritis monitoring (x36)	S364-21

Kind regards,



Prof. Emily Mitchell

Fakulteit Veeartsenykunde
Lefapha la Diseanse tša Bongakaditruwa

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DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS

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<u>Internal Parasites</u>	<u>Roundworms in general</u> , <u>Resistant Round Worms</u> , <u>Wireworm</u> , <u>Brown stomach-worm</u> , <u>Nodular worm</u> , <u>Tape Worms</u> , <u>Parafilaria</u> , <u>Liver fluke</u> , <u>Conical Flukes</u> , <u>Cysticercosis</u>
<u>External Parasites</u>	<u>Blue ticks</u> , <u>Resistant blue Ticks</u> , <u>Heartwater (Bont) ticks</u> , <u>Brown ear-ticks</u> , <u>Bont-legged ticks</u> , <u>Red-legged ticks</u> , <u>Paralysis ticks</u> , <u>Biting lice (red lice)</u> , <u>Sucking lice (blue lice)</u> , <u>Scab mites</u> , <u>Mange Mites</u> , <u>Nuisance Flies</u> , <u>Blowflies</u> , <u>Screw-worm</u> , <u>Nasal bot larvae</u> , <u>Midges</u> , <u>Mosquitoes</u> , <u>Itch mite</u>
<u>Tick-borne Diseases</u>	<u>African red water</u> , <u>Asiatic red water</u> , <u>Anaplasmosis</u> , <u>Heartwater</u> , <u>Sweating Sickness</u>
<u>Insect Transmittable Diseases</u>	<u>Lumpy skin disease</u> , <u>Three-day-stiffsickness</u> , <u>Blue tongue</u> , <u>Nagana</u>
<u>Venereal Diseases</u>	<u>Actinobacillus seminis</u> , <u>Trichomonosis</u> , <u>Vibriosis</u> , <u>Pizzle disease</u>
<u>Bacterial Disease (other)</u>	<u>Anthrax</u> , <u>Blackquarter</u> , <u>Botulism</u> , <u>Pulpy Kidney</u> , <u>Lamb dysentery</u> , <u>Swelled head disease</u> , <u>Red gut (cattle)</u> , <u>Blood gut</u>

	(Sheep) , Tetanus , Salmonellosis , Brucella abortus , Brucella ovis , Johne`s disease , Septicaemia , E. coli , Enzootic Abortion , Dermatophilosis (Lumpy Wool) , Intrauterine Gangrene , Bovine Dermatophilosis (Senkobo disease) , Fusibacterium necrophorum , Listeriosis , Pasteurellosis , Other
<u>Protozoal diseases (other)</u>	Besnoitiosis , Coccidiosis , Cryptosporidiosis
<u>Fungal diseases</u>	Ringworm
<u>Viral Diseases (other)</u>	BMC (snotsiekte) , Rabies , BVD (Bovine viral diarrhoea) , IBR (Infectious bovine rhinotracheitis) , Enzootic Bovine Leucosis (EBL) , Orf , Warts , Rota virus , Other viral disease not listed
<u>Poisonings (Plant) and Fungal</u>	Cardiac glycoside poisoning , Cestrum , Cynanchum poisoning , Facial eczema , Geeldikkop/Dikoor , Gifblaar , Gousiekte , Lantana , Nitrate poisoning , Prussic acid poisoning , Seneciosis , Vermeersiekte (Geigeria spp.) , Mycotoxicosis , Other
<u>Poisonings</u>	Datura , Urea Poisoning , Snake Bite , Hypo
<u>Macro Nutritional Problems</u>	Energy deficiency , Protein deficiency , Phosphate deficiency , Calcium deficiency
<u>Micro Nutritional Problems</u>	Iodine deficiency , Copper deficiency , Zinc deficiency , Selenium deficiency , Magnesium deficiency , Manganese deficiency , Iodine deficiency , Vitamin A deficiency , Vitamin B1 deficiency
<u>Multi-factorial Disease Conditions</u>	Abortions , Stillbirths , Abscesses , Bladder stones , Blindness , Bloat , Red gut (torsion sheep and goats) , Blue udder , Diarrhoea , Epididymitis , Eye Cancer , Eye infections , Joint Ill , Lameness/Foot Problems , Lung infection , Mastitis in general , Navel Ill , Trauma , Downer , Other , Vestubular syndrome (Middle ear infection) , Wet carcasses , Yellow cascades at abattoir
<u>Metabolic Diseases</u>	Acidosis , Displaced abomasum , Ketosis , Milk Fever
<u>Reproductive diseases</u>	Dystocia (Difficult Births) , Endometritis , Metritis , Poor conception , Retained afterbirth , Sheath Prolaps , Uterus prolaps , Vaginal (Cervical) prolaps
<u>Climatical Cause</u>	Cold exposure , Heat stress , Lightning
<u>Residues</u>	Drug residues
<u>Non specific diseases</u>	Cause of death not established , Dermatoparaxis , Preditors , Sabotation/Theft , Trauma , other , Traumatic Reticulo-pericarditis

Internal Parasites

Roundworms in general

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	3.0 (2)	2.4 (5)	2.0 (1)	2.9 (7)	2.8 (18)	2.6 (5)	2.6 (8)	1.8 (9)	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	3.0 (1)	3.0 (1)		3.0 (1)	1.0 (1)	2.0 (1)	3.0 (1)	2.0 (1)	2.0 (1)
Dairy							3.0 (1)		
Sheep	3.0 (1)	2.3 (3)	2.0 (1)	2.8 (6)	2.9 (14)	3.0 (2)	2.3 (3)	2.0 (6)	2.5 (2)
Goat		2.0 (1)			2.7 (3)	2.5 (2)	2.7 (3)	1.0 (2)	2.0 (1)

Mpumalanga

Standerton, Econovet

Beef: 3, Sheep: 3

Gauteng

Bapsfontein, Bapsfontein Dierehospitaal

Sheep: 3, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 3, Sheep: 3

Pretoria, ARC Irene

Sheep: 1

Trichuris (whipworm)

Limpopo

Vaalwater, Vaalwater Dieresprekkamer

Sheep: 2

North West

Christiana, Christiana Dierehospitaal

Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 2

Potchefstroom, Bult Dierekliniek

Sheep: 3

Stella, Stella Dierekliniek

Sheep: 3

Ventersdorp, Ventersdorp Dierekliniek

Sheep: 3

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1, Sheep: 2

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Bultfontein, Greylingrust Dieresprekkamer

Sheep: 3, Goat: 3

Clocolan, Clocolan Dierekliniek

Sheep: 3

Excelsior, Weltevrede Dierekliniek

Sheep: 3, Goat: 3

Ficksburg, Oosvrystaat Dier Produkte

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 3

Parys, Parys Dierehospitaal

Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Warden, Warden Dierekliniek 1

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 3, Goat: 2

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

Sheep: 3, Goat: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Newcastle, Ncanduvet Newcastle

Sheep: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

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

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1, Goat: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3, Goat: 3

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

Goat: 1

Caledon, Caledon Dierekliniek

Sheep: 2

Caledon, Overberg Veterinary Hospital

Sheep: 2

Darling, Tygerberg Dierehospitaal Darling

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

Plettenberg Bay, Plettenberg Bay A Reitz

Beef: 2

Out of 30 heifers, two died, diagnosed bankruptworm

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1, Goat: 1

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Beef: 2

Kimberley, Kuruman

Sheep: 2

Kimberley, Kuruman

Goat: 2

Kimberley, Kuruman

Postmasburg, Postmasburg Dierekliniek

Sheep: 3

Resistant Round Worms

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.3 (3)		2.4 (5)	2.1 (9)	3.0 (1)	2.3 (4)	2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep	2.0 (1)	2.3 (3)		2.4 (5)	2.1 (9)	3.0 (1)	2.3 (3)	2.0 (1)	
Goat							2.0 (1)		

Mpumalanga

Middelburg, Neil Fourie Veeartsenydiens

Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Rayton, Rayton Dierekliniek

Sheep: 3

North West

Brits, Brits Dierekliniek

Sheep: 3

Christiana, Christiana Dierehospitaal

Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Sheep: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 1

One farm - levamisole resistance

Ventersdorp, Ventersdorp Dierekliniek

Sheep: 3

Free State

Bethlehem, Union Street Animal Consulting Rooms

Sheep: 1

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 1

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Oranjeville, Grasveld Kuddegondheid

Sheep: 1

Reitz, Riemland Dierehospitaal

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 3

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2

Steynsburg, Steynsburg Dierhospitaal

Sheep: 3

Western Cape

Malmesbury, Malmesbury Dierhospitaal

Sheep: 2

Wireworm

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.7 (10)	2.3 (6)	1.8 (4)	2.2 (6)	2.9 (27)	2.7 (6)	2.0 (2)	1.5 (4)	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	2.0 (1)				2.5 (2)				
Dairy					3.0 (1)				
Sheep	2.9 (7)	2.7 (3)	2.5 (2)	2.2 (5)	2.9 (19)	2.5 (4)	3.0 (1)	1.5 (4)	3.0 (3)
Goat	2.5 (2)	2.0 (3)	1.0 (2)	2.0 (1)	2.6 (5)	3.0 (2)	1.0 (1)		3.0 (1)

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 2

Ermelo, Mōregloed Veterinêre Spreekkamer

Goat: 3

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinere Dienste

Sheep: 3

Lydenburg, Longtom Dierekliniek

Sheep: 3

Lydenburg, Lydenburg Dieresprekkamer

Sheep: 3

Middelburg, Neil Fourie Veeartsenydienste

Sheep: 3

Nelspruit, Nelspruit Animal Hospital

Goat: 2

Standerton, Econovet

Sheep: 3

Volksrust, Grasslands vet clinic

Sheep: 3

Gauteng**Bronkhorstspruit, Kerkstraat Dierekliniëk**

Sheep: 3, Goat: 2

Nigel, Nigel Diere Spreekkamer

Goat: 2

Pretoria, ARC Irene

Sheep: 3

13 cases

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 2, Goat: 2

Limpopo**Bela-Bela, Warmbad Dierekliniëk**

Sheep: 3

Makhado, Blouberg Dierekliniëk

Sheep: 2

Polokwane, Pietersburg Veterinary Clinic

Goat: 1

Vaalwater, Vaalwater Dieresprekkamer

Goat: 1

North West**Brits, Zodiac Dierekliniëk**

Sheep: 2

Lichtenburg, Dr CM Kruger-Rall

Sheep: 2

Potchefstroom, Bult Dierekliniëk

Sheep: 3

Schweizer-Reneke, Buffeldoorn Dierekliniëk SR

Sheep: 2, Goat: 2

Vryburg, Molopo Dierekliniëk

Sheep: 2

Free State**Bethlehem, Bethlehem Animal Hospital**

Sheep: 3

Bethlehem, Union Street Animal Consulting Rooms

Sheep: 2

Bultfontein, Greylingrust Dieresprekkamer

Sheep: 3, Goat: 3

Clocolan, Clocolan Dierekliniëk

Sheep: 3

Dewetsdorp, Platkop Dierekliniëk

Sheep: 3, Goat: 3

Excelsior, Weltevrede Dierekliniëk

Dairy: 3, Goat: 3

Frankfort, Frankfort Dierekliniëk

Sheep: 3

Hertzogville, Hertzogville Dierekliniëk

Sheep: 3

Hoopstad, Hoopstad Dierekliniëk

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3, Goat: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Sheep: 3, Goat: 2

Memel, Memel Veterinary Clinic

Beef: 3

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 3

Senekal, Senekal Dierekliniek

Sheep: 3

Vrede, Saulshoek Dieregesondheid.

Sheep: 3

Vrede, Vrede Dierehospitaal

Sheep: 3

Warden, Warden Dierekliniek 1

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 2, Sheep: 3

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

Sheep: 1, Goat: 3

Dundee, Endumeni Herd health

Sheep: 3

Estcourt, Estcourt Vet Clinic

Sheep: 3, Goat: 3

Vryheid, Vryheid Privaat Veeartse

Sheep: 3

Eastern Cape**Aliwal North, Hertzogbrug Dierekliniek**

Sheep: 3

Lambs

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

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

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Sheep: 3

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Kuruman, Kuruman Dierekliniek

Sheep: 3, Goat: 3

Brown stomach-worm

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								1.0 (1)	
Goat							2.0 (1)		

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

Nodular worm

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

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)		1.0 (1)				2.0 (1)
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Limpopo

Vaalwater, Vaalwater Dieresprekkamer

Sheep: 3

Many nodular worm lesions seen

Free State

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Tape Worms

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.8 (4)	1.0 (1)		2.4 (8)	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)			
Sheep		1.5 (2)			2.4 (8)	1.0 (1)			
Goat		2.0 (2)	1.0 (1)						

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 1, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2, Goat: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Goat: 1

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Bloemfontein, University Free State

Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Sheep: 2

Oranjeville, Grasveld Kuddegondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Warden, Warden Dierekliniek

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Newcastle, Ncanduvet Newcastle

Beef: 1, Sheep: 1

Parafilaria

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

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)		1.0 (1)			
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Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Brits, Zodiac Dierekliniek

Beef: 2

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Liver fluke									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)			1.0 (1)	1.5 (4)	3.0 (1)	3.0 (4)	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	2.5 (2)			1.0 (1)	1.7 (3)	3.0 (1)	3.0 (1)	2.0 (1)	2.0 (1)
Dairy							3.0 (1)		
Sheep					1.0 (1)		3.0 (1)		
Goat							3.0 (1)		

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 3

Standerton, Econovet

Beef: 2

North West**Klerksdorp, Klerksdorp Dierehospitaal**

Beef: 1

Free State**Bloemfontein, Dr Stephan Wessels**

Beef: 1, Sheep: 1

Clocolan, Clocolan Dierekliniek

Beef: 2

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 2

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

Beef: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

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

Western Cape**Malmesbury, Dr Otto Kriek**

Beef: 2

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Beef: 2

Kuruman

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

Average	1.0 (1)	1.0 (1)	2.0 (5)	1.0 (1)	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

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

Mpumalanga

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 1

North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Dewetsdorp, Platkop Dierekliniek

Beef: 2, Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 3

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 1

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Dairy: 1

Cysticercosis

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

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)				
Sheep							2.0 (1)		

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

Free State

Parys, Parys Dierehospitaal

Beef: 1

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 2

Coenurus cerebralis

External Parasites

Blue ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.8 (4)	3.0 (1)	1.0 (1)	2.9 (7)	2.9 (20)	3.0 (9)	3.0 (3)	2.7 (3)	3.0 (3)

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

Beef	2.7 (3)	3.0 (1)	1.0 (1)	2.8 (6)	2.9 (15)	3.0 (8)	3.0 (2)		3.0 (1)
Dairy	3.0 (1)			3.0 (1)	3.0 (1)	3.0 (1)		2.5 (2)	
Sheep					3.0 (4)		3.0 (1)	3.0 (1)	3.0 (1)
Goat									3.0 (1)

Mpumalanga

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 3

Lydenburg, Lydenburg Dieresprekkamer

Beef: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Standerton, Econovet

Beef: 3

Gauteng

Krugersdorp, Veearts Netwerk

Beef: 3

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Brits, Zodiac Dierekliniek

Beef: 2, Dairy: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Excelsior, Weltevrede Dierekliniek

Beef: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 3, Dairy: 3, Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Beef: 2

Parys, Parys Dierehospitaal

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Vrede, Saulshoek Dieregesondheid.

Beef: 3

Warden, Warden Dierekliniek

Beef: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3

Eshowe, Eshowe Veterinary Hospital

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Underberg, Underberg Veterinary Surgery

Beef: 3

Vryheid, Vryheid Privaat Veeartse

Beef: 3

Eastern Cape

Aliwal North, Hertzogbrug Dierekliniek

Beef: 3

Elliot, EG Veterinary Services Elliot

Beef: 3, Sheep: 3

Western Cape

George, George Herd Heath Consult

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 3

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Resistant blue Ticks

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

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

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

Free State

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Dairy: 1

Heartwater (Bont) ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (1)	2.0 (1)	2.9 (7)		2.3 (8)	3.0 (1)		

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

Beef	2.0 (2)		2.0 (1)	2.8 (4)		2.6 (5)			
Dairy				3.0 (2)					
Sheep		2.0 (1)		3.0 (1)		1.0 (1)	3.0 (1)		
Goat						2.0 (2)			

Mpumalanga

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Gauteng**Pretoria, Anima Veterinary Consulting Rooms**

Sheep: 2

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

North West**Brits, Brits Dierekliniek**

Beef: 3, Dairy: 3, Sheep: 3

Brits, Zodiac Dierekliniek

Beef: 2, Dairy: 3

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

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

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3, Goat: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

Eastern Cape**Steynsburg, Steynsburg Dierehospitaal**

Sheep: 3

Lots of ticks in Idutywa area

Brown ear-ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (5)	2.3 (4)	2.0 (1)	2.3 (3)	2.0 (2)	2.6 (5)	2.7 (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	2.4 (5)	2.5 (2)	2.0 (1)	2.3 (3)	2.0 (2)	2.6 (5)	2.5 (2)		
Dairy							3.0 (1)		
Sheep		2.0 (1)						3.0 (1)	
Goat		2.0 (1)							

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 3

Lydenburg, Lydenburg Dieresprekkamer

Beef: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Standerton, Econovet

Beef: 2

Volksrust, Grasslands vet clinic

Beef: 2

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 3

Pretoria, Anima Veterinary Consulting Rooms

Beef: 2, Sheep: 2, Goat: 2

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 2

North West**Brits, Zodiac Dierekliniek**

Beef: 2

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Free State**Vrede, Saulshoek Dieregesondheid.**

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

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

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 2

Vryheid, Vryheid Privaat Veeartse

Beef: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 3, Dairy: 3

Humansdorp, Humansdorp Veterinary Clinic

Beef: 2

Western Cape**Moorreesburg, Korhaanrug Dieregesondheid**

Sheep: 3

Bont-legged ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	3.0 (1)	2.0 (2)	3.0 (1)	2.9 (9)	2.6 (19)	2.3 (3)	3.0 (1)	3.0 (1)	3.0 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	3.0 (1)	2.0 (2)		2.9 (7)	2.5 (13)	2.3 (3)			3.0 (1)
Dairy				3.0 (1)	3.0 (2)				
Sheep				3.0 (1)	2.8 (4)		3.0 (1)	3.0 (1)	3.0 (1)
Goat			3.0 (1)						3.0 (1)

Mpumalanga

Lydenburg, Lydenburg Dieresprekkamer

Beef: 3

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 2

Limpopo

Hoedspruit, Aardvark veterinary services

Goat: 3

North West

Brits, Brits Dierekliniek

Beef: 3, Dairy: 3

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2

Bloemfontein, Dr Stephan Wessels

Beef: 1

Bloemfontein, University Free State

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 3

Excelsior, Weltevrede Dierekliniek

Beef: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3

Parys, Parys Dierehospitaal

Beef: 3

Senekal, Senekal Dierekliniek

Beef: 3, Dairy: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 1

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 3

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Red-legged ticks

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)			3.0 (2)	2.8 (21)	2.3 (3)	3.0 (1)		

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

Beef	2.0 (2)			3.0 (2)	2.7 (10)	2.3 (3)			
Dairy					3.0 (2)				
Sheep					2.8 (8)		3.0 (1)		
Goat					3.0 (1)				

Mpumalanga
Lydenburg, Lydenburg Dieresprekkamer

Beef: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 3

Excelsior, Weltevrede Dierekliniek

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3, Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Parys, Parys Dierehospitaal

Beef: 3, Sheep: 3, Goat: 3

Senekal, Senekal Dierekliniek

Beef: 3, Dairy: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Vrede, Saulshoek Dieregesondheid.

Sheep: 3

Warden, Warden Dierekliniek 1

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2, Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Tugela Vet Clinic

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Paralysis ticks									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	1.7 (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				1.0 (1)					
Sheep			1.0 (1)	2.0 (2)					3.0 (1)

North West

Christiana, Christiana Dierehospitaal

Sheep: 1

Free State

Frankfort, Frankfort Dierekliniek

Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 1, Sheep: 2

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Biting lice (red lice)

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

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

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

North West

Stella, Stella Dierekliniek

Beef: 3

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Sheep: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Sucking lice (blue lice)

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

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

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

Sheep 1.0 (1) 2.0 (1)

Free State

Senekal, Senekal Direkliniek

Sheep: 1

Northern Cape

Kimberley, Staatsveeartse Groep NC

Sheep: 2

Upington, Calvinia

Mange Mites

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)

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1

Nuisance Flies

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)			2.0 (1)	2.7 (7)	2.4 (13)	3.0 (3)	1.8 (5)	

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

Beef	3.0 (1)	2.0 (1)	2.8 (4)	2.4 (5)	3.0 (1)	2.0 (2)
Dairy				3.0 (2)	3.0 (1)	1.0 (1)
Sheep			2.7 (3)	2.3 (3)	3.0 (1)	2.0 (2)
Goat				2.0 (3)		

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 3

North West

Vryburg, Molopo Dierekliniek

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3, Sheep: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2, Goat: 2

Pongola, Pongola Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

Underberg, Underberg Veterinary Surgery

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

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 3, Dairy: 3, Sheep: 3

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 3, Sheep: 3

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1, Sheep: 1

Blowflies



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	2.6 (5)		2.5 (2)	1.0 (1)	

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

Beef				1.0 (1)	2.5 (2)				
Sheep					2.7 (3)		2.5 (2)	1.0 (1)	

North West

Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Senekal, Senekal Dierekliniek

Sheep: 3

Warden, Warden Dierekliniek 1

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Blowfly strike

Western Cape

Oudtshoorn, Oudtshoorn Dierekliniek

Sheep: 1

Screw-worm



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

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

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

Limpopo

Hoedspruit, Aardvark veterinary services

Beef: 2

Fly strike

North West

Brits, Brits Dierekliniek

Beef: 3, Sheep: 3

Free State

Senekal, Senekal Dierekliniek

Sheep: 3

Nasal bot larvae

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

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

Sheep				3.0 (1)	2.6 (5)			3.0 (1)	
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North West

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3

Free State

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Western Cape

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 3

Midges

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (3)			2.8 (5)	2.7 (7)	2.8 (6)	3.0 (4)	2.0 (7)	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 (2)			3.0 (2)	3.0 (2)	2.8 (4)	3.0 (1)	2.0 (2)	
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Dairy			3.0 (1)	3.0 (1)		2.0 (1)		
Sheep	3.0 (1)		2.7 (3)	2.5 (4)	3.0 (1)	3.0 (2)	2.3 (3)	2.0 (1)
Goat						3.0 (1)	1.0 (1)	

Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Beef: 3

Standerton, Econovet

Beef: 3, Sheep: 3

North West

Brits, Zodiac Dierekliniek

Sheep: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3, Sheep: 3

Free State

Bultfontein, Greylingrust Dierspreekkamer

Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 3, Dairy: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3, Sheep: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 2

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 3, Sheep: 3

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3, Goat: 3

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Groenkloof Dierekliniek

Beef: 3, Sheep: 3

Oudtshoorn, Ostrimed

Beef: 1, Sheep: 1, Goat: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Mosquitoes

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)				2.9 (10)	3.0 (5)		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)				3.0 (5)	3.0 (3)		2.0 (1)	
Dairy					3.0 (2)	3.0 (1)			
Sheep	3.0 (1)				2.7 (3)	3.0 (1)		2.0 (1)	

Mpumalanga

Standerton, Econovet

Beef: 3, Sheep: 3

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 3, Dairy: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Dairy: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3, Sheep: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Sheep: 2

Itch mite

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)

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 2

Tick-borne Diseases

African red water

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.4 (7)	3.0 (1)	2.0 (3)	2.3 (3)	2.7 (10)	2.3 (9)	2.3 (4)	1.6 (7)	

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

Beef	2.4 (7)	3.0 (1)	2.0 (3)	2.0 (2)	2.7 (10)	2.4 (8)	2.0 (3)	1.5 (4)	
Dairy				3.0 (1)		2.0 (1)	3.0 (1)	1.7 (3)	

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinere Dienste

Beef: 3

Lydenburg, Longtom Dierekliniek

Beef: 3

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Standerton, Econovet

Beef: 3

Volkstrust, Grasslands vet clinic

Beef: 2

Gauteng

Krugersdorp, Veearts Netwerk

Beef: 3

First time it is reported from this area

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

Three cases

Mokopane, Bundu Veterinary Services

Beef: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 2

North West

Brits, Brits Dierekliniek

Beef: 3, Dairy: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Free State**Clocolan, Clocolan Dierekliniek**

Beef: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2

Oranjeville, Grasveld Kuddegesondheid

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Vrede, Saulshoek Dieregesondheid.

Beef: 3

Warden, Warden Dierekliniek 1

Beef: 3

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

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 3

Camperdown, Camperdown Vet Clinic

Beef: 2

Nguni calves

Eshowe, Eshowe Veterinary Hospital

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 2, Dairy: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 3, Dairy: 3

Humansdorp, Humansdorp Veterinary Clinic

Beef: 2

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Western Cape**Caledon, Overberg Veterinary Hospital**

Beef: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury, Bergzicht Dierehospitaal

Beef: 1

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Malmesbury Dierehospitaal

Beef: 1

Plettenberg Bay, Plettenberg Bay A Reitz

Dairy: 1

Worcester, Durban Straat Dierekliniek Worcester

Beef: 2

Asiatic red water

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (6)	2.5 (4)	2.0 (1)	2.7 (3)	2.0 (10)	2.2 (10)	2.7 (3)	1.7 (3)	

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

Beef	2.4 (5)	2.7 (3)	2.0 (1)	2.5 (2)	2.0 (10)	2.1 (8)	3.0 (1)	1.7 (3)	
Dairy	3.0 (1)	2.0 (1)		3.0 (1)		2.5 (2)	2.5 (2)		

Mpumalanga**Bethal, Bethal Dierekliniek**

Beef: 2

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 3

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

Standerton, Econovet

Beef: 3

Volkswest, Grasslands vet clinic

Beef: 2

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 2

Nigel, Nigel Diere Spreekkamer

Beef: 3

Pretoria, ARC Irene

Dairy: 2

6 cases

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3

Limpopo**Makhado, Blouberg Dierekliniek**

Beef: 2

Four cases

North West**Brits, Brits Dierekliniek**

Beef: 3, Dairy: 3

Brits, Zodiac Dierekliniek

Beef: 2

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3

Frankfort, Frankfort Diereklíníek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Hoopstad, Kameeldoring Diereklíníek

Beef: 1

Oranjeville, Grasveld Kuddegesondheid

Beef: 2

Viljoenskroon, Viljoenskroon Diereklíníek

Beef: 1

Vrede, Saulshoek Dieregesondheid.

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 2

Winburg, Winburg Diereklíníek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 3

Dundee, Endumeni Herd health

Beef: 2, Dairy: 2

Eshowe, Eshowe Veterinary Hospital

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Vryheid, Vryheid Privaat Veeartse

Beef: 2

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Dairy: 2

Elliot, EG Veterinary Services Elliot

Beef: 3, Dairy: 3

Western Cape

Malmesbury, Dr Otto Kriek

Beef: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Swellendam, Swellendam Dierehospitaal

Beef: 2

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (2)		2.4 (7)	2.6 (17)	2.2 (5)	3.0 (3)	2.1 (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	2.0 (2)	2.0 (2)		2.4 (7)	2.7 (15)	2.2 (5)	3.0 (2)	1.8 (4)	3.0 (1)
Dairy					2.0 (2)		3.0 (1)	2.7 (3)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

Rayton, Rayton Dierekliniek

Beef: 2

North West

Brits, Zodiac Dierekliniek

Beef: 1

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

Vryburg, Molopo Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Bloemfontein, University Free State

Beef: 2, Dairy: 2

Bultfontein, Greylingrust Dierespreekkamer

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 3

Excelsior, Weltevrede Dierekliniek

Beef: 3

Ficksburg, Oosvrystaat Dier Produkte

Beef: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Beef: 3

Outbreaks in 3 herds

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Parys, Parys Dierehospitaal

Dairy: 2

Senekal, Senekal Dierekliniek

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

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: 3

Newcastle, Ncanduvet Newcastle

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Aliwal North, Hertzogbrug Dierekliniek

Beef: 3

Elliot, EG Veterinary Services Elliot

Beef: 3, Dairy: 3

Western Cape

Caledon, Overberg Veterinary Hospital

Beef: 2

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Worcester, Durban Straat Dierekliniek Worcester

Beef: 2

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 3

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.7 (3)	1.0 (6)	1.8 (5)	2.8 (9)	1.0 (1)	1.9 (10)	2.0 (4)		3.0 (3)

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

Beef	2.5 (2)	1.0 (3)	2.0 (3)	2.6 (5)	1.0 (1)	2.2 (5)	3.0 (1)		3.0 (1)
Dairy				3.0 (1)		2.0 (1)	3.0 (1)		
Sheep	3.0 (1)	1.0 (1)		3.0 (2)			1.0 (1)		3.0 (1)
Goat		1.0 (2)	1.5 (2)	3.0 (1)		1.5 (4)	1.0 (1)		3.0 (1)

Mpumalanga

Lydenburg, Longtom Dierekliniëk

Beef: 3, Sheep: 3

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniëk

Beef: 1

Pretoria, Anima Veterinary Consulting Rooms

Beef: 1, Sheep: 1, Goat: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1, Goat: 1

Limpopo

Makhado, Blouberg Dierekliniëk

Beef: 2

Five cases

Mokopane, Bundu Veterinary Services

Beef: 2, Goat: 1

Polokwane, Pietersburg Veterinary Clinic

Beef: 2, Goat: 2

North West

Brits, Brits Dierekliniëk

Beef: 3, Dairy: 3, Sheep: 3

Brits, Zodiac Dierekliniëk

Beef: 2

Rustenburg, Bergbos Dierekliniëk

Beef: 2

Stella, Stella Dierekliniëk

Beef: 3

Zeerust, Avontuur veterinary Practice

Beef: 3, Sheep: 3, Goat: 3

Free State

Warden, Warden Dierekliniëk 1

Beef: 1

Outside area consultancy

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Camperdown, Camperdown Vet Clinic

Goat: 1

Dundee, Endumeni Herd health

Beef: 2, Dairy: 2

Eshowe, Eshowe Veterinary Hospital

Beef: 3

Estcourt, Estcourt Vet Clinic

Goat: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3, Goat: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Pongola, Pongola Animal Clinic

Goat: 1

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Beef: 3, Dairy: 3

Bathurst, Dr Jane Pistorius

Goat: 1

Humansdorp, Humansdorp Veterinary Clinic

Sheep: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Beef: 3, Sheep: 3, Goat: 3

Sweating Sickness

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

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

Beef		1.0 (1)		2.3 (6)	2.0 (3)				
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

North West

Brits, Zodiac Dierekliniek

Beef: 1

Christiana, Christiana Dierehospitaal

Beef: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Rustenburg, Bergbos Dierekliniek

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Zeerust, Avontuur veterinary Practice

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Insect Transmittable Diseases

Lumpy skin disease

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.2 (5)	2.0 (1)	2.0 (2)	2.3 (11)	2.4 (20)	1.3 (3)		2.0 (3)	3.0 (2)

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

Beef	2.2 (5)	2.0 (1)	2.0 (2)	2.3 (10)	2.4 (19)	1.3 (3)		1.0 (1)	3.0 (2)
Dairy				2.0 (1)	3.0 (1)			2.5 (2)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Neil Fourie Veeartsenydienste

Beef: 3

Severe outbreaks

Standerton, Econovet

Beef: 2

Volkstrust, Grasslands vet clinic

Beef: 2

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

In addition, Allerton virus (pseudo lumpy skin disease) lots of cases

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

Polokwane, Pietersburg Veterinary Clinic

Beef: 2

North West

Bloemhof, Bloemhof Dierekliniek

Beef: 2

Brits, Zodiac Dierekliniek

Beef: 2, Dairy: 2

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Lichtenburg, Dr CM Kruger-Rall

Beef: 1

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3

Vryburg, Molopo Dierekliniek

Beef: 1

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 1

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1

Bloemfontein, Dr Stephan Wessels

Beef: 3

Bultfontein, Greylingrust Dieresprekkamer

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 2

Ficksburg, Oosvrystaat Dier Produkte

Beef: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Beef: 2

Especially in calves

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3

Oranjeville, Grasveld Kuddegeseondheid

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Vrede, Saulshoek Diereseondheid.

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Newcastle, Ncanduvet Newcastle

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1

Western Cape

Beaufort West, Beaufort West State Vet

Beef: 1

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Northern Cape

Colesberg, Karoo Veterinary Hospital

Beef: 3

Kuruman, Kuruman Dierekliniek

Beef: 3

Three-day-stiffsickness

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.9 (9)	2.5 (6)	2.9 (8)	2.9 (14)	2.8 (24)	3.0 (14)	2.0 (1)		3.0 (3)

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

Beef	2.9 (8)	2.6 (5)	2.9 (8)	2.8 (13)	2.8 (22)	3.0 (12)	2.0 (1)		3.0 (3)
Dairy	3.0 (1)	2.0 (1)		3.0 (1)	2.5 (2)	3.0 (2)			

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 3

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 3

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Hendrina, Mooiplaas Veterinêre Dienste

Beef: 3

Lydenburg, Longtom Dierekliniek

Beef: 3

More than 100 cases

Lydenburg, Lydenburg Dieresprekkamer

Beef: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 3

Standerton, Econovet

Beef: 3

Volkstrust, Grasslands vet clinic

Beef: 3

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 3

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 3

Nigel, Nigel Diere Spreekkamer

Beef: 3

Pretoria, ARC Irene

Dairy: 2

4 cases; bull testing - 1 case

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 3

Rayton, Rayton Dierkliniek

Beef: 1

Limpopo**Bela Bela, Artemis Veterinary Services**

Beef: 3

Treated, recovered

Bela Bela, Value Vet

Beef: 3

Bela-Bela, Warmbad Dierkliniek

Beef: 3

Makhado, Blouberg Dierkliniek

Beef: 3

Twelve cases

Mokopane, Bundu Veterinary Services

Beef: 3

More than 30 cases

Polokwane, Pietersburg Veterinary Clinic

Beef: 3

Tzaneen, ZZ2 Farm Practice

Beef: 3

Vaalwater, Vaalwater Dieresprekkamer

Beef: 2

North West**Bloemhof, Bloemhof Dierkliniek**

Beef: 3

Brits, Brits Dierkliniek

Beef: 3, Dairy: 3

Brits, Zodiac Dierkliniek

Beef: 3

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Leeudoringstad, Leeudoringstad Dierkliniek

Beef: 3

Lichtenburg, Dr CM Kruger-Rall

Beef: 3

Rustenburg, Bergbos Dierkliniek

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierkliniek SR

Beef: 3

Stella, Stella Dierkliniek

Beef: 3

Ventersdorp, Ventersdorp Dierkliniek

Beef: 3

Vryburg, Molopo Dierkliniek

Beef: 2

Zeerust, Avontuur veterinary Practice

Beef: 3

More than 100 cases

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 3

Bethlehem, Union Street Animal Consulting Rooms

Beef: 3

Bloemfontein, Dr Stephan Wessels

Beef: 3

Bultfontein, Greylingrust Dieresprekkamer

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 2

Excelsior, Weltevrede Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Harrismith, Harrismith Dierehospitaal

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Beef: 3

10 farms

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 3

Memel, Memel Veterinary Clinic

Beef: 3

Oranjeville, Grasveld Kuddegesondheid

Beef: 3

Parys, Parys Dierehospitaal

Beef: 3, Dairy: 2

Reitz, Riemland Dierehospitaal

Beef: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Vrede, Saulshoek Dieregesondheid.

Beef: 3

Vrede, Vrede Dierehospitaal

Beef: 3

Warden, Warden Dierekliniek

Beef: 3

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Bergville, Tugela Vet Clinic

Beef: 3

Camperdown, Camperdown Vet Clinic

Beef: 3

Nguni

Dundee, Endumeni Herd health

Beef: 3, Dairy: 3

Eshowe, Eshowe Veterinary Hospital

Beef: 3

200 plus

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3

Newcastle, Ncanduvet Newcastle

Beef: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 3

Pongola, Pongola Animal Clinic

Beef: 3

Underberg, Underberg Veterinary Surgery

Beef: 3

Vryheid, Vryheid Privaat Veeartse

Beef: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 2

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Beef: 3

Colesberg, Karoo Veterinary Hospital

Beef: 3

Kuruman, Kuruman Dierekliniek

Beef: 3

Blue tongue

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (7)	2.8 (5)	2.0 (1)	2.8 (6)	2.3 (16)	1.5 (4)	2.3 (6)	2.1 (7)	2.8 (5)

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

Beef	1.5 (2)				3.0 (1)				
Sheep	2.5 (4)	2.8 (5)	2.0 (1)	2.8 (6)	2.2 (15)	1.5 (4)	2.2 (5)	2.1 (7)	2.8 (5)
Goat	1.0 (1)						3.0 (1)		

Mpumalanga**Bethal, Bethal Dierekliniek**

Beef: 2

Ermelo, Mōregloed Veterinêre Spreekkamer

Goat: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Sheep: 3

Lydenburg, Lydenburg Dierspreekkamer

Sheep: 2

Standerton, Econovet

Sheep: 3

Volksrust, Grasslands vet clinic

Sheep: 2

Gauteng**Bapsfontein, Bapsfontein Dierehospitaal**

Sheep: 3

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 2

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Sheep: 3

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 3

Limpopo**Makhado, Blouberg Dierekliniek**

Sheep: 2

Three cases

North West**Brits, Brits Dierekliniek**

Sheep: 3

Brits, Zodiac Dierekliniek

Sheep: 3

Christiana, Christiana Dierehospitaal

Sheep: 3

Lichtenburg, Dr CM Kruger-Rall

Sheep: 3

Potchefstroom, Bult Dierekliniek

Sheep: 2

Stella, Stella Dierekliniek

Sheep: 3

Free State**Bethlehem, Bethlehem Animal Hospital**

Sheep: 1

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Bloemfontein, University Free State

Sheep: 1

Bultfontein, Greylingrust Dierspreekkamer

Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 2

Ficksburg, Oosvrystaat Dier Produkte

Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Sheep: 3

8 farms

Hoopstad, Kameeldoring Dierekliniek

Sheep: 2

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 2

Senekal, Senekal Dierekliniek

Sheep: 2

Warden, Warden Dierekliniek

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Winburg, Winburg Dierekliniek

Sheep: 2

Kwazulu-Natal

Bergville, Tugela Vet Clinic

Sheep: 2

Dundee, Endumeni Herd health

Sheep: 1

Estcourt, Estcourt Vet Clinic

Sheep: 2

Underberg, Underberg Veterinary Surgery

Sheep: 1

Eastern Cape

Cradock, Cradock Veterinary Clinic

Sheep: 2

Elliot, EG Veterinary Services Elliot

Sheep: 3, Goat: 3

Graaff-Reinet, Camdeboo Veterinary Clinic

Sheep: 1

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 3

Beaufort West, Beaufort West State Vet

Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Piketberg, Piketberg Dierehospitaal

Sheep: 3

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1

Worcester, Durban Straat Dierekliniek Worcester

Sheep: 3

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 2

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Kuruman, Kuruman Dierekliniek

Sheep: 3

Postmasburg, Postmasburg Dierekliniek

Sheep: 3

Upington, Upington Veeartsenykliniek

Sheep: 3

Nagana

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

Level of 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)

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

Beef: 3

Venereal Diseases***Actinobacillus seminis***

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

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

Beef 1.0 (1)

Mpumalanga**Standerton, Econovet**

Beef: 1

Trichomonosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.3 (3)		1.0 (2)	2.4 (5)	2.3 (11)	1.7 (3)			

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

Beef 2.5 (2) 1.0 (2) 2.4 (5) 2.3 (11) 1.7 (3)

Dairy**2.0 (1)****Mpumalanga****Ermelo, Mōregloed Veterinêre Spreekkamer**

Dairy: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3

Limpopo**Makhado, Blouberg Dierekliniek**

Beef: 1

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West**Bloemhof, Bloemhof Dierekliniek**

Beef: 2

Four out of 8 bulls tested positive

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Stella, Stella Dierekliniek

Beef: 3

Vryburg, Molopo Dierekliniek

Beef: 3

Vryburg, Vryburg Prov Vet Laboratory

Beef: 2

2 positive cases. 11 herds tested in Naledi District with 2 positive herds and 2 positive animals. 2 herds tested in Kagisano District with 0 positive herds/animals. A total of 13 herds and 73 animals were tested.

Free State**Excelsior, Weltevrede Dierekliniek**

Beef: 1

Frankfort, Frankfort Dierekliniek

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Beef: 2

Five bulls

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Memel, Memel Veterinary Clinic

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 3

Vrede, Vrede Dierehospitaal

Beef: 1

One farm

Warden, Warden Dierekliniek 1

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Vibriosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			3.0 (2)	1.6 (5)	1.0 (1)			

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

Beef	2.0 (1)			3.0 (2)	1.8 (4)	1.0 (1)			
Dairy					1.0 (1)				

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 2

North West**Stella, Stella Dierekliniek**

Beef: 3

Vryburg, Molopo Dierekliniek

Beef: 3

Free State**Excelsior, Weltevrede Dierekliniek**

Dairy: 1

Hertzogville, Hertzogville Dierekliniek

Beef: 2

Two bulls

Reitz, Riemland Dierehospitaal

Beef: 1

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 1

Pizzle disease

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

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

Sheep	2.0 (1)
Goat	1.0 (1)

Kwazulu-Natal

Pongola, Pongola Animal Clinic

Goat: 1

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 2

Bacterial Disease (other)

Anthrax

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

Beef					3.0 (1)				
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Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Blackquarter

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average				2.0 (1)	2.4 (8)	2.3 (7)	2.0 (1)	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

Beef				2.0 (1)	2.4 (8)	2.0 (5)	2.0 (1)	1.0 (1)	
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Dairy						3.0 (2)			
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North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Dewetsdorp, Platkop Dierekliniek

Beef: 3

Excelsior, Weltevrede Dierekliniek

Beef: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3

Memel, Memel Veterinary Clinic

Beef: 3

Calves

Vrede, Saulshoek Dieregesondheid.

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 3, Dairy: 3

Estcourt, Estcourt Vet Clinic

Beef: 2, Dairy: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 2

Western Cape

Beaufort West, Beaufort West State Vet

Beef: 1

Botulism

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

Beef							1.0 (1)		
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Sheep				1.0 (1)					
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North West

Christiana, Christiana Dierehospitaal

Sheep: 1

Eastern Cape

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Pulpy Kidney

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	1.3 (3)	1.5 (2)		1.5 (4)	2.4 (11)		2.5 (2)	1.5 (2)	3.0 (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

Sheep	1.5 (2)	1.5 (2)		1.5 (4)	2.4 (11)		3.0 (1)	1.5 (2)	3.0 (2)
Goat	1.0 (1)						2.0 (1)		

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 1

Ermelo, Mōregloed Veterinêre Spreekkamer

Goat: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

North West

Brits, Brits Dierekliniek

Sheep: 1

Christiana, Christiana Dierehospitaal

Sheep: 1

Stella, Stella Dierekliniek

Sheep: 3

Ventersdorp, Ventersdorp Dierekliniek

Sheep: 1

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Sheep: 3

Frankfort, Frankfort Dierekliniek

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Reitz, Riemland Dierehospitaal

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 2

Warden, Warden Dierekliniek 1

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 3

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 2

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Kuruman, Kuruman Dierekliniek

Sheep: 3

Lamb dysentery

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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North West

Vryburg, Molopo Dierekliniek

Sheep: 2

Swelled head disease

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

Volkstrust, Grasslands vet clinic

Beef: 3

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 1

North West

Potchefstroom, Bult Dierekliniek

Sheep: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 2

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Sheep: 1

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Red gut (cattle)

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

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

Beef 1.0 (1)

Dairy 2.5 (2) 1.0 (1)

Mpumalanga

Middelburg, Neil Fourie Veeartsenydienste

Beef: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 3

Estcourt, Estcourt Vet Clinic

Dairy: 2

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 1

Blood gut (Sheep)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)		3.0 (1)	1.5 (4)				2.5 (2)

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

Sheep 2.0 (1) 1.0 (1) 3.0 (1) 1.5 (4) 2.5 (2)

Mpumalanga

Lydenburg, Longtom Dierekliniek

Sheep: 2

Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

North West

Stella, Stella Dierekliniek

Sheep: 3

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 1

Bultfontein, Greylingrust Dieresprekkamer

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Upington, Upington Veeartsenykliniek

Sheep: 3

Sheep lambs

Tetanus [^](#)

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

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

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

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 1

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

Stellenbosch, Stellenbosch Animal Hospital

Goat: 1

Salmonellosis [^](#)

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

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

Beef				2.0 (1)	2.0 (2)	2.0 (1)			
Dairy						2.0 (1)	2.0 (1)		

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

Suspected, 4 weeks old calves. Awaiting results

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Memel, Memel Veterinary Clinic

Beef: 2

Salmonella Dublin - first time seen in practice area

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 2, Dairy: 2

Eastern Cape

Elliot, EG Veterinary Services Elliot

Dairy: 2

Brucella abortus

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)		2.0 (1)	2.8 (5)	2.3 (10)	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	2.0 (3)		2.0 (1)	2.8 (4)	2.3 (10)				3.0 (1)
Dairy				3.0 (1)		3.0 (1)			

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 3

Lydenburg, Longtom Dierekliniek

Beef: 2

Middelburg, Neil Fourie Veeartsenydienste

Beef: 1

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

North West

Brits, Brits Dierekliniek

Dairy: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Lichtenburg, Dr CM Kruger-Rall

Beef: 3

42 positive cases

Stella, Stella Dierekliniek

Beef: 3

Vryburg, Vryburg Prov Vet Laboratory

Beef: 3

A Total of 68 herds, 4950 animals tested. 22 Positive herds: Naledi = 9/36 herds (9 positive herds out of 36 herds tested), Mamusa = 1/4 herds, Mafikeng = 1/4 herds, Lekwa Teemane = 1/1 herds, Greater Taung = 0/1 herds, Kagisano = 6/13 herds, Molopo = 4/9 herds. (Titre: 18-24 = 33 animals. Titre: 30-49 = 24 animals. Titre: >60 = 126 animals)

Free State**Bloemfontein, Dr Stephan Wessels**

Beef: 1

Clocolan, Clocolan Dierekliniek

Beef: 2

Frankfort, Frankfort Dierekliniek

Beef: 3

Hertzogville, Hertzogville Dierekliniek

Beef: 1

One positive herd

Hoopstad, Hoopstad Dierekliniek

Beef: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Smithfield, Freestate Smithfield SV

Beef: 3

54 cases Zastron

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 3

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

Dairy: 3

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Beef: 3

Kimberley, Upington

Brucella ovis

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

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

Sheep								2.0 (1)	1.7 (3)
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Western Cape**Beaufort West, Beaufort Dierekliniek**

Sheep: 2

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Sheep: 2

Kimberley, Staatsveeartse Groep NC

Sheep: 1

Upington

Upington, Upington Veeartsenykliniek

Sheep: 2

Commercial farmer, 8 out of 42 rams positive

Johne`s disease [^](#)

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

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

Sheep							1.0 (1)	2.0 (1)	
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Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 1

Western Cape

Caledon, Overberg Veterinary Hospital

Sheep: 2

Septicaemia [^](#)

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

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

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

Warden, Warden Dierekliniek 1

Beef: 1, Sheep: 2

E. coli [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.7 (3)		2.5 (4)	2.8 (11)		3.0 (1)	1.0 (2)	2.0 (1)

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

Beef	1.0 (1)	3.0 (1)		2.3 (3)	3.0 (5)				
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Dairy							3.0 (1)		
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Sheep	3.0 (1)	2.5 (2)		3.0 (1)	2.7 (6)			1.0 (2)	2.0 (1)
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Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Volksrust, Grasslands vet clinic

Sheep: 3

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 3, Sheep: 3

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

North West

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 1

Vaccinating cows for last few years before birth. *E. coli* cases decreased.

Stella, Stella Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels

Sheep: 1

Excelsior, Weltevrede Dierekliniek

Beef: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Sheep: 3

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Dairy: 3

Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 1

Oudtshoorn, Ostrimed

Sheep: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Sheep: 2

E. coli septicaemia

Enzootic Abortion



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

Sheep			1.0 (1)	3.0 (2)		3.0 (1)	1.0 (1)	2.0 (1)
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Goat	1.0 (1)							
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Mpumalanga

Ermelo, Môregloed Veterinêre Spreekkamer

Goat: 1

North West

Potchefstroom, Bult Dierekliniek

Sheep: 1

Free State

Frankfort, Frankfort Dierekliniek

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Chlamydomphyla abortion and neonatal deaths

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Dermatophilosis (Lumpy Wool)



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.4 (5)		3.0 (1)	1.3 (3)	

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

Sheep					2.4 (5)		3.0 (1)	1.3 (3)	
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Free State

Frankfort, Frankfort Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 3

Reitz, Riemland Dierehospitaal

Sheep: 2

Warden, Warden Dierekliniek

Sheep: 2

Eastern Cape**Steynsburg, Steynsburg Dierehospitaal**

Sheep: 3

Western Cape**Caledon, Overberg Veterinary Hospital**

Sheep: 2

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Intrauterine Gangrene

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

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

Sheep				1.0 (1)					2.0 (1)
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North West**Brits, Zodiac Dierekliniek**

Sheep: 1

Northern Cape**Kuruman, Kuruman Dierekliniek**

Sheep: 2

Bovine Dermatophilosis (Senkobo disease)

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

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

Beef	2.5 (2)	2.0 (1)	1.0 (1)		2.0 (1)		3.0 (1)		
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Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 3

Rain

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Gauteng**Nigel, Nigel Diere Spreekkamer**

Beef: 2

Limpopo**Hoedspruit, Aardvark veterinary services**

Beef: 1

Free State

Reitz, Riemland Dierehospitaal

Beef: 2

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Beef: 3

Fusibacterium necrophorum

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

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

Beef					2.0 (1)				
Sheep					2.0 (1)				

Free State

Warden, Warden Dierekliniek 1

Beef: 2, Sheep: 2

Listeriosis

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

Wellington, Wellington Dierehospitaal

Sheep: 1

Mycoplasma ovis - one outbreak

Pasteurellosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (2)	1.0 (1)	2.3 (3)	2.2 (11)	1.0 (2)		1.7 (3)	

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

Beef	2.0 (1)	2.0 (1)			2.0 (5)	1.0 (1)		1.0 (1)
Dairy			1.0 (1)			1.0 (1)		
Sheep				3.0 (1)	2.3 (6)			2.0 (2)
Goat		2.0 (1)	1.0 (1)	3.0 (1)				

Mpumalanga

Volksrust, Grasslands vet clinic

Beef: 2

Gauteng

Nigel, Nigel Diere Spreekkamer

Beef: 2, Goat: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Goat: 1

North West

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3, Goat: 3

Rustenburg, Bergbos Dierekliniek

Dairy: 1

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1, Sheep: 1

Frankfort, Frankfort Dierekliniek

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Beef: 3, Sheep: 3

Vrede, Saulshoek Dieregesondheid.

Beef: 1

Warden, Warden Dierekliniek 1

Sheep: 2

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Beef: 1, Dairy: 1

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 1

Caledon, Overberg Veterinary Hospital

Sheep: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Other



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

Goat	1.0 (1)
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Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Goat: 1

Corynebacterium pseudotuberculosis

Protozoal diseases (other)

Besnoitiosis

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

Beef			2.0 (1)						
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Limpopo

Mokopane, Bundu Veterinary Services

Beef: 2

Coccidiosis

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	3.0 (1)	2.0 (1)	1.8 (4)	2.0 (1)	2.4 (8)	1.5 (2)	2.4 (5)	1.5 (4)	2.0 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef				2.0 (1)		1.5 (2)			2.0 (1)
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Sheep	3.0 (1)	2.0 (1)	2.0 (1)		2.4 (8)		3.0 (2)	1.7 (3)	2.0 (1)
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Goat			1.7 (3)				2.0 (3)	1.0 (1)	2.0 (1)
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Mpumalanga

Lydenburg, Longtom Direkliniek

Sheep: 3

Gauteng

Pretoria, ARC Irene

Sheep: 2

5 cases

Limpopo

Hoedspruit, Aardvark veterinary services

Goat: 2

Makhado, Blouberg Dierekliniek

Sheep: 2

Polokwane, Pietersburg Veterinary Clinic

Goat: 2

Vaalwater, Vaalwater Dieresprekkamer

Goat: 1

North West**Brits, Zodiac Dierekliniek**

Beef: 2

Free State**Bethlehem, Union Street Animal Consulting Rooms**

Sheep: 1

Bloemfontein, Dr Stephan Wessels

Sheep: 3

Frankfort, Frankfort Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Sheep: 3

Warden, Warden Dierekliniek 1

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

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

Beef: 2

Camperdown, Camperdown Vet Clinic

Beef: 1

Nguni calf

Eastern Cape**Bathurst, Dr Jane Pistorius**

Goat: 2

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 3, Goat: 3

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Western Cape**Caledon, Caledon Dierekliniek**

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Sheep: 1, Goat: 1

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Goat: 2

Prieska

Kuruman, Kuruman Dierekliniek

Beef: 2, Sheep: 2

Cryptosporidiosis [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)	3.0 (2)		1.5 (2)	2.5 (18)	2.5 (2)	2.0 (1)	2.3 (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		3.0 (1)			2.5 (6)	2.0 (1)		2.7 (3)	
Dairy	1.0 (1)							2.0 (3)	
Sheep	3.0 (2)	3.0 (1)		1.5 (2)	2.5 (12)	3.0 (1)	2.0 (1)	2.3 (4)	
Goat	1.0 (1)								

Mpumalanga

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 1, Goat: 1

Lydenburg, Longtom Dierekliniek

Sheep: 3

Volksrust, Grasslands vet clinic

Sheep: 3

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 3, Sheep: 3

North West

Brits, Brits Dierekliniek

Sheep: 2

Christiana, Christiana Dierehospitaal

Sheep: 1

Cryptosporidium

Free State

Bethlehem, Bethlehem Animal Hospital

Sheep: 3

Bethlehem, Union Street Animal Consulting Rooms

Beef: 2, Sheep: 2

Bultfontein, Greylingrust Dieresprekkamer

Beef: 3, Sheep: 3

Clocolan, Clocolan Dierekliniek

Sheep: 2

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3, Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 3

Oranjeville, Grasveld Kuddegesondheid

Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 2, Sheep: 2

Vrede, Vrede Dierehospitaal

Sheep: 1

One farm

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 2

Estcourt, Estcourt Vet Clinic

Sheep: 3

Eastern Cape**Cradock, Cradock Veterinary Clinic**

Sheep: 2

Western Cape**Darling, Tygerberg Dierehospitaal Darling**

Beef: 3, Dairy: 3, Sheep: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2, Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Beef: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1, Sheep: 1

Wellington, Wellington Dierehospitaal

Beef: 3, Sheep: 3

Fungal diseases**Ringworm**

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)	1.5 (2)	2.0 (1)	2.3 (3)	1.8 (5)	1.3 (3)		2.3 (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	3.0 (1)	1.0 (1)	2.0 (1)	3.0 (2)	2.0 (4)	1.3 (3)		2.0 (1)	
Dairy					1.0 (1)				
Sheep		2.0 (1)		1.0 (1)				2.5 (2)	2.0 (1)
Goat									2.0 (1)

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Beef: 3

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Limpopo

Makhado, Blouberg Dierekliniek

Beef: 2

Calves

North West

Brits, Zodiac Dierekliniek

Sheep: 1

Christiana, Christiana Dierehospitaal

Beef: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Feedlots

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Bloemfontein, University Free State

Dairy: 1

Dewetsdorp, Platkop Dierekliniek

Beef: 3

Reitz, Riemland Dierehospitaal

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 2

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 2

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 3

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Sheep: 2

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2, Goat: 2

Viral Diseases (other)

BMC (snotsiekte)										^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0 (1)	1.5 (2)		1.8 (8)			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)	1.8 (8)	1.0 (1)
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

Limpopo

Bela-Bela, Warmbad Dierekliniek

Beef: 2

Makhado, Blouberg Dierekliniek

Beef: 1

Free State

Bethlehem, Union Street Animal Consulting Rooms

Beef: 1

Bloemfontein, Dr Stephan Wessels

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3

Parys, Parys Dierehospitaal

Beef: 1

Reitz, Riemland Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Beef: 2

Warden, Warden Dierekliniek 1

Beef: 2

Wesselsbron, Wesselsbron Dierekliniek

Beef: 2

Western Cape

Beaufort West, Beaufort West State Vet

Beef: 1

Rabies

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

Beef			1.0 (1)						
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Limpopo

Mokopane, Bundu Veterinary Services

Beef: 1

BVD (Bovine viral diarrhoea)

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

Beef				1.0 (1)	2.0 (1)				
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North West

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 1

BVD calf (PI), no muscles developed under the scapula. Calf taken to Faculty at Onderstepoort for observation.

Free State

Winburg, Winburg Dierekliniek

Beef: 2

IBR (Infectious bovine rhinotracheitis)

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

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

Beef				2.0 (1)					
Dairy						2.0 (1)			

North West

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 2

Enzootic Bovine Leucosis (EBL)

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

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

Beef					2.0 (1)	3.0 (1)			
Dairy						2.0 (1)		2.5 (2)	

Free State

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 3

The responsibility of Veterinarians in curbing the disease by applying basic biosecurity measures is huge.

Paarl, Paarl Dierehospitaal;

Dairy: 2

Orf									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.3 (3)	1.7 (3)	3.0 (1)	2.3 (6)	2.3 (11)	1.3 (3)	2.0 (5)	1.0 (3)	3.0 (2)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Sheep	1.5 (2)	1.5 (2)	3.0 (1)	2.0 (4)	2.2 (10)	1.5 (2)	2.3 (3)	1.0 (3)	3.0 (1)
Goat	1.0 (1)	2.0 (1)		3.0 (2)	3.0 (1)	1.0 (1)	1.5 (2)		3.0 (1)

Mpumalanga

Bethal, Bethal Dierekliniek

Sheep: 1

Ermelo, Môregloed Veterinêre Spreekkamer

Goat: 1

Lydenburg, Longtom Dierekliniek

Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Sheep: 1, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Limpopo

Makhado, Blouberg Dierekliniek

Sheep: 3

Ten cases

North West

Brits, Zodiac Dierekliniek

Sheep: 1

Christiana, Christiana Dierehospitaal

Sheep: 3, Goat: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3, Goat: 3

Rustenburg, Bergbos Dierekliniek

Sheep: 1

Free State

Bethlehem, Bethlehem Animal Hospital

Sheep: 2

Bethlehem, Union Street Animal Consulting Rooms

Sheep: 1

Bloemfontein, Dr Stephan Wessels

Sheep: 2

Bultfontein, Greylingrust Dieresprekkamer

Sheep: 3, Goat: 3

Clocolan, Clocolan Dierekliniek

Sheep: 2

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Sheep: 3

Hoopstad, Kameeldoring Dierekliniek

Sheep: 3

Oranjeville, Grasveld Kuddegeseondheid

Sheep: 2

Senekal, Senekal Dierekliniek

Sheep: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 2

Estcourt, Estcourt Vet Clinic

Sheep: 1, Goat: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Sheep: 3

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Goat: 2

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Uitenhage, Uitenhage Dierehospitaal

Sheep: 1

Western Cape

Beaufort West, Beaufort Dierekliniek

Sheep: 1

Beaufort West, Beaufort West State Vet

Sheep: 1

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 3, Goat: 3

Warts

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		2.0 (3)	1.6 (5)	1.0 (3)	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 (3)	1.3 (3)	1.0 (3)	2.0 (1)		2.0 (1)
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Dairy	1.0 (1)
Sheep	3.0 (1)

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

Vryburg, Molopo Dierekliniek

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Dewetsdorp, Platkop Dierekliniek

Sheep: 3

Parys, Parys Dierehospitaal

Beef: 2

Senekal, Senekal Dierekliniek

Dairy: 1

Vrede, Saulshoek Dieregesondheid.

Beef: 1

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 2

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Rota virus

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

Beef					1.5 (2)				
Dairy						2.0 (1)			

Free State**Bethlehem, Union Street Animal Consulting Rooms**

Beef: 1

Vrede, Saulshoek Dieregesondheid.

Beef: 2

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

Dairy: 2

Other viral disease not listed

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

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

Beef		3.0 (1)							
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Sheep		2.0 (1)							
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Gauteng**Magaliesburg, Magaliesburg; Dr Ryan Jeffrey**

Beef: 3

Allerton virus (pseudo lumpy skin disease)

Sheep: 2

Some cases of viral neuropathy, some sheep got better after 2 weeks and others did not

Poisonings (Plant) and Fungal**Cardiac glycoside poisoning**

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

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**Beaufort West, Beaufort West State Vet**

Sheep: 2

Cestrum (ink berry)

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

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

Beef					1.7 (3)			1.0 (1)	
Sheep					1.0 (1)				

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

Parys, Parys Dierehospitaal

Beef: 2

Reitz, Riemland Dierehospitaal

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1

Eastern Cape

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Cynanchum poisoning

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

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

Beef							3.0 (1)		
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Eastern Cape

Alexandria, Alexandria Platteland Sprekkamer

Beef: 3

Facial eczema

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

North West

Brits, Zodiac Dierekliniek

Sheep: 1

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 2, Sheep: 2

Western Cape

Caledon, Overberg Veterinary Hospital

Sheep: 2

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Geeldikkop/Dikoor

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

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

Sheep								2.0 (2)	2.3 (3)
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Western Cape

Beaufort West, Beaufort West State Vet

Sheep: 2

Malmesbury, Malmesbury Dierehospitaal

Sheep: 2

Northern Cape

Kimberley, Staatsveeartse Groep NC

Sheep: 2

Upington

Postmasburg, Postmasburg Dierekliniek

Sheep: 2

Upington, Upington Veeartsenykliniek

Sheep: 3

Gifblaar

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

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

Beef		2.0 (1)							
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2

Gousiekte

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

Beef	1.0 (1)
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Free State

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Lantana

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 (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

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

Gauteng

Rayton, Rayton Dierekliniek

Beef: 2, Sheep: 1

Limpopo

Bela-Bela, Warmbad Dierekliniek

Beef: 2

Free State

Vrede, Vrede Dierehospitaal

Sheep: 3

Footrot

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Nitrate poisoning

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

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)

Northern Cape

Postmasburg, Postmasburg Dierekliniek

Sheep: 2

Mycotoxicosis

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

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

Beef 1.0 (1)

Sheep 3.0 (1)

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Ill-thrift as a result of mycotoxins

Western Cape

Malmesbury, Malmesbury Dierehospitaal

Beef: 1

Other

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

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

Beef 1.0 (1)

Sheep 2.0 (1) 3.0 (1)

Goat 2.0 (1)

Limpopo

Hoedspruit, Aardvark veterinary services

Beef: 1

Senna toxicity

North West

Bloemhof, Bloemhof Dierekliniek

Goat: 2

Boer goats died due to unknown plant toxicity

Brits, Zodiac Dierekliniek

Sheep: 2

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Photosensitivity. *L. bipinnatum*; ganskweek

Poisonings

Datura

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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Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Urea Poisoning

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

Bela-Bela, Warmbad Dierekliniek

Sheep: 2

Free State

Clocolan, Clocolan Dierekliniek

Beef: 1

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Metabolic disturbances and immunosuppression as a result of ureum supplement feeding

Northern Cape

Kuruman, Kuruman Dierekliniek

Sheep: 2

Snake Bite

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)	2.0 (2)	1.7 (3)	1.0 (2)	2.0 (1)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

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

Mpumalanga

Volksrust, Grasslands vet clinic

Beef: 1

Limpopo

Mokopane, Bundu Veterinary Services

Goat: 2

Free State

Excelsior, Weltevrede Dierekliniek

Sheep: 1

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Beef: 2, Dairy: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Hypo



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

Malmesbury, Malmesbury Dierehospitaal

Sheep: 1

Macro Nutritional Problems

Energy deficiency									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)	1.0 (1)	2.5 (2)	2.0 (2)	3.0 (2)		2.0 (1)	
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef		1.0 (1)		2.0 (1)		3.0 (1)			
Dairy				3.0 (1)					
Sheep					2.0 (2)	3.0 (1)		2.0 (1)	
Goat			1.0 (1)						

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1

Protein, energy malabsorbtion (PEM)

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Goat: 1

North West

Brits, Zodiac Dierekliniek

Beef: 2, Dairy: 3

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Kroonstad, Reitzstraat Veterinere Spreekkamer

Sheep: 2

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Western Cape

Paarl, Paarl Dierehospitaal;

Sheep: 2

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

Sheep					2.0 (2)				
Goat			1.0 (1)						

Gauteng									
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic									
Beef: 1									
Limpopo									
Polokwane, Pietersburg Veterinary Clinic									
Goat: 1									
Free State									
Clocolan, Clocolan Dierekliniek									
Sheep: 2									
Kroonstad, Reitzstraat Veterinere Spreekkamer									
Sheep: 2									
Kwazulu-Natal									
Underberg, Underberg Veterinary Surgery									
Beef: 2									
Eastern Cape									
Witelsbos, Witelsbos Veterinary Consulting Rooms									
Dairy: 2									

Phosphate deficiency [^](#)

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

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

Beef				2.0 (2)	3.0 (1)				
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North West									
Christiana, Christiana Dierehospitaal									
Beef: 2									
Vryburg, Molopo Dierekliniek									
Beef: 2									
Free State									
Ficksburg, Oosvrystaat Diere Produkte									
Beef: 3									

Calcium deficiency [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)	2.5 (2)		1.7 (3)	

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

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

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

Clocolan, Clocolan Dierkliniek

Sheep: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Western Cape

Heidelberg (WC), Heidelberg Dierkliniek

Dairy: 2

Paarl, Paarl Dierehospitaal;

Sheep: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 1

One Jersey herd, post parturient hypocalcaemia

Micro Nutritional Problems

Iodine deficiency

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

North West

Leeudoringstad, Leeudoringstad Dierkliniek

Goat: 3

Kids with huge goiters. Boer goats graze on high nitrate fertilized pastures.

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 2

Copper 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

Beef 3.0 (1)

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Zinc 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

Beef 3.0 (1)

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Beef: 3

Selenium deficiency

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average 2.0 (1) 2.0 (1) 2.7 (3) 1.0 (2) 2.0 (1)

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

Beef 2.5 (2) 1.0 (1) 2.0 (1)

Sheep 2.0 (1) 2.0 (1) 3.0 (1)

Goat 1.0 (1)

Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

North West

Christiana, Christiana Dierhospitaal

Sheep: 2

Kwazulu-Natal

Bergville, Tugela Vet Clinic

Sheep: 3

Selenium and cobalt deficiency

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 1

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Beef: 2

VitaminE/Selenium deficiency

Magnesium deficiency

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

Limpopo

Mokopane, Bundu Veterinary Services

Beef: 3

Calves - magnesium staggers

North West

Vryburg, Molopo Dierekliniek

Beef: 2

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Western Cape

Caledon, Overberg Veterinary Hospital

Dairy: 2

Manganese deficiency

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

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

Beef						2.0 (1)			
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Kwazulu-Natal

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Iodine deficiency

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

Dairy	2.0 (1)
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Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 2

Vitamin A deficiency

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

Beef				3.0 (1)					
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Sheep				3.0 (1)					
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North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Vitamin B1 deficiency

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

Sheep					2.0 (1)	2.0 (1)			
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Free State

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Sheep: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Sheep: 2

Multi-factorial Disease Conditions

Abortions

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (2)	2.0 (1)	1.0 (1)	3.0 (3)	2.4 (8)	2.0 (6)	1.8 (4)	2.8 (4)	2.0 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.0 (2)		1.0 (1)	3.0 (2)	2.3 (3)	2.7 (3)	1.0 (2)		
Dairy						2.0 (1)	2.0 (1)	2.7 (3)	
Sheep		2.0 (1)		3.0 (1)	2.4 (5)	1.0 (2)	3.0 (1)	3.0 (1)	2.0 (2)
Goat									2.0 (1)

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Christiana, Christiana Dierhospitaal

Beef: 3, Sheep: 3

Stella, Stella Dierekliniek

Beef: 3

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 1

Clocolan, Clocolan Dierekliniek

Sheep: 1

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Viljoenskroon, Viljoenskroon Dierekliniek

Sheep: 3

Warden, Warden Dierekliniek 1

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Estcourt, Estcourt Vet Clinic

Dairy: 2, Sheep: 1

Newcastle, Ncanduvet Newcastle

Sheep: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

Elliot, EG Veterinary Services Elliot

Sheep: 3

In addition, ovine abortions reported by farmers

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Dairy: 2

Abortion in dairy cattle following feeding of mycotoxin in lucern

Western Cape

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3, Sheep: 3

Malmesbury, Bergzicht Dierehospitaal

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 3

Northern Cape

Kimberley, Staatsveeartse Groep NC

Sheep: 1

De Aar

Kuruman, Kuruman Dierekliniek

Sheep: 3, Goat: 2

Stillbirths

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

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

Lydenburg, Longtom Dierekliniek

Beef: 1

Mummified foetus

North West

Vryburg, Molopo Dierekliniek

Beef: 1

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

Hoopstad, Hoopstad Dierekliniek

Beef: 2, Sheep: 3

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

Beef: 2

Western Cape**Stellenbosch, Stellenbosch Animal Hospital**

Dairy: 1

Abscesses

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)	1.5 (2)	2.0 (1)	2.4 (7)	1.5 (11)	2.3 (6)	2.4 (5)	1.7 (9)	2.5 (2)

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

Beef	2.0 (1)	1.0 (1)	2.0 (1)	2.5 (4)	1.7 (3)	2.0 (4)	2.0 (2)	1.7 (3)	2.0 (1)
Dairy				2.0 (1)	1.0 (1)	3.0 (1)	3.0 (1)	2.0 (1)	
Sheep	3.0 (1)	2.0 (1)		2.5 (2)	1.5 (6)	3.0 (1)	3.0 (1)	2.0 (3)	
Goat					1.0 (1)		2.0 (1)	1.0 (2)	3.0 (1)

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Sheep: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Gauteng**Pretoria, ARC Irene**

Beef: 1

One case at Roodeplaat

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 2

Limpopo**Mokopane, Bundu Veterinary Services**

Beef: 2

North West**Brits, Zodiac Dierekliniek**

Dairy: 2

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Bont-legged ticks with long mouth parts

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2, Sheep: 2

Vryburg, Molopo Dierekliniek

Beef: 2

Free State

Bloemfontein, University Free State

Beef: 1, Sheep: 1

Bultfontein, Greylingrust Dieresprekkamer

Sheep: 2

Dewetsdorp, Platkop Dierekliniek

Sheep: 3

Excelsior, Weltevrede Dierekliniek

Sheep: 1

Kroonstad, Reitzstraat Veterinere Spreekkamer

Beef: 1, Sheep: 1

Parys, Parys Dierehospitaal

Dairy: 1

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 1, Goat: 1

Winburg, Winburg Dierekliniek

Beef: 3

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

Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3, Sheep: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 3, Dairy: 3, Sheep: 3

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Goat: 2

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Western Cape**Oudtshoorn, Ostrimed**

Sheep: 1, Goat: 1

Paarl, Paarl Dierehospitaal;

Beef: 1, Dairy: 2, Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1, Goat: 1

Wellington, Wellington Dierehospitaal

Beef: 3

Corynebacterium abscesses

Sheep: 3

Corynebacterium abscesses

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Goat: 3

Kuruman, Kuruman Dierekliniek

Beef: 2

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

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

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

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Goat: 1

Free State

Reitz, Riemland Dierehospitaal

Sheep: 1

Vrede, Saulshoek Dieregesondheid.

Sheep: 2

Western Cape

Malmesbury, Bergzicht Dierehospitaal

Beef: 1

Blindness

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.4 (8)	3.0 (1)		2.0 (2)	2.0 (3)

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

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

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Excelsior, Weltevrede Dierekliniek

Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 2, Sheep: 2

Warden, Warden Dierekliniek

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 3

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

Sheep: 2

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Beef: 2, Goat: 2

Kuruman, Kuruman Dierekliniek

Sheep: 2

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

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

Beef	1.0 (1)	1.0 (2)			1.5 (4)	1.0 (2)			2.0 (1)
Sheep					1.0 (1)				2.0 (1)
Goat		1.0 (1)							2.0 (1)

Mpumalanga**Grootvlei, Grootvlei Dierekliniek**

Beef: 1

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1, Goat: 1

Free State**Bultfontein, Greylingrust Diersprekkamer**

Beef: 1

Clocolan, Clocolan Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 1

Warden, Warden Dierekliniek

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

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

Beef: 1

Nguni calf

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Red gut (torsion sheep and goats)

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)

North West

Vryburg, Molopo Dierekliniek

Sheep: 2

Blue udder

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				1.8 (5)	2.0 (1)	2.0 (1)	1.5 (2)	3.0 (2)

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

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

Sheep 2.0 (1) 1.8 (5) 2.0 (1) 2.0 (1)

Goat 3.0 (1)

Mpumalanga

Lydenburg, Lydenburg Dieresprekkamer

Sheep: 2

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 2

Hoopstad, Hoopstad Dierekliniek

Sheep: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 2

Kroonstad, Reitzstraat Veterinere Spreekkamer

Sheep: 2

Winburg, Winburg Dierekliniek

Sheep: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 2

Eastern Cape**Cradock, Cradock Veterinary Clinic**

Sheep: 2

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

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Dairy: 3, Goat: 3

Diarrhoea

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.5 (2)	2.0 (1)		2.4 (7)	2.6 (19)	3.0 (1)	2.3 (4)	1.7 (3)	3.0 (3)

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

Beef	2.0 (1)			2.5 (4)	2.8 (8)		2.0 (1)		3.0 (1)
Dairy		2.0 (1)			2.0 (3)	3.0 (1)	3.0 (1)	1.0 (1)	
Sheep	3.0 (1)			2.3 (3)	2.6 (8)		3.0 (1)	2.0 (2)	3.0 (1)
Goat							1.0 (1)		3.0 (1)

Mpumalanga**Grootvlei, Grootvlei Dierkliniek**

Beef: 2

Lydenburg, Longtom Dierkliniek

Sheep: 3

Gauteng**Pretoria, ARC Irene**

Dairy: 2

Six cases

North West**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1, Sheep: 1

Stella, Stella Dierkliniek

Beef: 3

Vryburg, Molopo Dierkliniek

Beef: 3, Sheep: 3

Free State**Bloemfontein, University Free State**

Dairy: 1

Bultfontein, Greylingrust Dierespreekkamer

Beef: 3, Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Dairy: 2, Sheep: 2

Dewetsdorp, Platkop Dierekliniek

Sheep: 3

Excelsior, Weltevrede Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 3, Dairy: 3, Sheep: 3

Oranjeville, Grasveld Kuddegeseondheid

Beef: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3

Vrede, Vrede Dierehospitaal

Sheep: 2

Bacterial diarrhoea

Winburg, Winburg Dierekliniek

Beef: 3

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

Dairy: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Dairy: 3, Sheep: 3

Graaff-Reinet, Camdeboo Veterinary Clinic

Goat: 1

LPE (Lymphocytic-Plasmacytic Enteritis)

Humansdorp, Humansdorp Veterinary Clinic

Beef: 2

Western Cape**Caledon, Overberg Veterinary Hospital**

Sheep: 3

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1, Sheep: 1

Northern Cape**Kuruman, Kuruman Dierekliniek**

Beef: 3, Sheep: 3, Goat: 3

Epididymitis

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

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

Sheep								2.0 (1)	
Goat									2.0 (1)

Western Cape**Malmesbury, Bergzicht Dierehospitaal**

Sheep: 2

Northern Cape

Kuruman, Kuruman Dierekliniek

Goat: 2

Eye Cancer

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)		1.0 (1)	1.4 (5)	2.5 (2)		1.0 (1)	

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

Beef					1.3 (4)	2.0 (1)			
Dairy				1.0 (1)	2.0 (1)	3.0 (1)			
Sheep		1.0 (2)						1.0 (1)	

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Sheep: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1

Squamous cell carcinoma

North West**Brits, Zodiac Dierekliniek**

Dairy: 1

Free State**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Dairy: 2

Kroonstad, Reitzstraat Veterinere Spreekkamer

Beef: 1

Wesselsbron, Wesselsbron Dierekliniek

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 2

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

Beef: 2

Estcourt, Estcourt Vet Clinic

Dairy: 3

Western Cape**Paarl, Paarl Dierehospitaal;**

Sheep: 1

Eye infections

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	2.3 (6)	1.6 (7)	2.0 (2)	2.6 (7)	2.4 (23)	2.3 (7)	2.8 (12)	2.4 (10)	2.0 (3)
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Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported

Beef	2.3 (4)	1.5 (2)		2.6 (5)	2.5 (12)	2.7 (3)	2.7 (6)	2.3 (3)	2.0 (1)
Dairy		2.0 (1)			2.0 (3)	3.0 (1)	3.0 (2)	2.0 (1)	
Sheep	2.5 (2)	1.5 (2)		2.5 (2)	2.4 (8)	2.0 (1)	3.0 (3)	2.4 (5)	2.0 (1)
Goat		1.5 (2)	2.0 (2)			1.5 (2)	3.0 (1)	3.0 (1)	2.0 (1)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

Nelspruit, Nelspruit Animal Hospital

Beef: 2

Volksrust, Grasslands vet clinic

Beef: 2, Sheep: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Pretoria, Anima Veterinary Consulting Rooms

Beef: 1

Pretoria, ARC Irene

Dairy: 2

2 cases

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1, Goat: 1

Limpopo

Bela Bela, Artemis Veterinary Services

Goat: 2

Dairy goats, treated, recovered

Mokopane, Bundu Veterinary Services

Goat: 2

6 goats

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2, Sheep: 2

Stella, Stella Dierekliniek

Beef: 3

Ventersdorp, Ventersdorp Dierekliniek

Beef: 2

Free State

Bloemfontein, University Free State

Beef: 2, Dairy: 2, Sheep: 2

Bultfontein, Greylingrust Diersprekkamer

Beef: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 2

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 3, Sheep: 3

Parys, Parys Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Reitz, Riemland Dierehospitaal

Beef: 2, Dairy: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Vrede, Saulshoek Dieregesondheid.

Sheep: 2

Vrede, Vrede Dierehospitaal

Beef: 3

Bacterial conjunctivitis

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3, Sheep: 2, Goat: 2

Mtubatuba, Mtubatuba Animal Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Goat: 1

Eastern Cape**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

Alexandria, Riverview Trading Vet Consulting Services

Beef: 3, Dairy: 3

Elliot, EG Veterinary Services Elliot

Beef: 2, Dairy: 3, Sheep: 3

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Beef: 3, Sheep: 3

Humansdorp, Humansdorp Veterinary Clinic

Beef: 3

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Sheep: 3, Goat: 3

Western Cape**Beaufort West, Beaufort Dierekliniek**

Sheep: 1

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 2

Malmesbury, Bergzicht Dierehospitaal

Dairy: 2

Malmesbury, Groenkloof Dierekliniek

Sheep: 3

Oudtshoorn, Ostrimed

Beef: 3

Many animals at auction show signs of acute to chronic active conjunctivitis

Sheep: 3

Many animals at auction show signs of acute to chronic active conjunctivitis

Goat: 3

Many animals at auction show signs of acute to chronic active conjunctivitis

Piketberg, Piketberg Dierehospitaal

Beef: 3

Heifers

Sheep: 3

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2, Sheep: 2, Goat: 2

Joint Ill

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (2)	3.0 (1)	2.3 (4)	2.0 (1)	1.5 (2)	2.0 (4)		2.0 (1)

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

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

Mpumalanga

Ermelo, Mōregloed Veterinêre Spreekkamer

Goat: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1

Pretoria, Anima Veterinary Consulting Rooms

Beef: 1

Limpopo

Hoedspruit, Aardvark veterinary services

Beef: 3

Septic arthritis

North West

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Vryburg, Molopo Dierekliniek

Beef: 1

Free State

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2

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

Beef: 2

Underberg, Underberg Veterinary Surgery

Dairy: 1

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 2, Dairy: 2

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2

Northern Cape**Kuruman, Kuruman Dierekliniek**

Goat: 2

Lameness/Foot Problems

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.0 (5)	3.0 (1)	2.8 (8)	2.6 (20)	2.4 (7)	2.5 (10)	1.8 (5)	2.7 (7)

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

Beef	2.0 (3)	1.5 (2)		2.8 (4)	2.4 (9)	2.3 (4)	2.3 (4)	1.0 (1)	2.7 (3)
Dairy		2.0 (1)			2.0 (1)	3.0 (2)	3.0 (1)	2.0 (2)	
Sheep	3.0 (1)	2.5 (2)		2.7 (3)	2.7 (10)		2.7 (3)	2.0 (1)	2.7 (3)
Goat	1.0 (1)		3.0 (1)	3.0 (1)		2.0 (1)	2.5 (2)	2.0 (1)	3.0 (1)

Mpumalanga**Grootvlei, Grootvlei Dierekliniek**

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 3

Foot rot

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2, Goat: 1

Gauteng**Bronkhorstspuit, Kerkstraat Dierekliniek**

Beef: 1, Sheep: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 3

Pretoria, ARC Irene

Dairy: 2

Three cases

Rayton, Rayton Dierekliniek

Beef: 2

Limpopo

Hoedspruit, Aardvark veterinary services

Goat: 3

Bont-legged ticks

North West**Christiana, Christiana Dierehospitaal**

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Leeudoringstad, Leeudoringstad Dierekliniek

Sheep: 3

Due to bont-legged ticks

Goat: 3

Vryburg, Molopo Dierekliniek

Beef: 3

Zeerust, Avontuur veterinary Practice

Beef: 3, Sheep: 2

Free State**Bloemfontein, Dr Stephan Wessels**

Beef: 3, Sheep: 3

Bloemfontein, University Free State

Beef: 1, Dairy: 2

1 x hoof abscess

Sheep: 1

Bultfontein, Greylingrust Dieresprekkamer

Beef: 2, Sheep: 3

Clocolan, Clocolan Dierekliniek

Beef: 2, Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3, Sheep: 3

Kroonstad, Reitzstraat Veterinêre Spreekkamer

Beef: 2, Sheep: 2

Memel, Memel Veterinary Clinic

Sheep: 3

Foot rot

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Vrede, Saulshoek Dieregesondheid.

Sheep: 3

Warden, Warden Dierekliniek 1

Beef: 3, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 3

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

Beef: 3

Estcourt, Estcourt Vet Clinic

Dairy: 3

Mtubatuba, Mtubatuba Animal Clinic

Goat: 2

Newcastle, Ncanduvet Newcastle

Beef: 1

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Dairy: 3

Very wet, muddy - serious losses

Vryheid, Vryheid Privaat Veeartse

Beef: 3

Due to wet conditions after good rains

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 2

Elliot, EG Veterinary Services Elliot

Beef: 3, Dairy: 3, Sheep: 3

Graaff-Reinet, Graaff Reinet Veterinary Clinic

Sheep: 2, Goat: 2

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Beef: 3, Sheep: 3

Mild footrot (*Dichelobacter nodosus*) in all ruminants

Goat: 3

Western Cape

Heidelberg (WC), Heidelberg Dierkliniek

Dairy: 2

Malmesbury, Dr Otto Kriek

Dairy: 2

Oudtshoorn, Ostrimed

Sheep: 2, Goat: 2

Paarl, Paarl Dierehospitaal;

Beef: 1

Northern Cape

Calvinia, Calvinia Veeartskliniek

Beef: 3, Sheep: 3

Kimberley, Staatsveeartse Groep NC

Beef: 2

Kimberley footrot

Sheep: 2

Kuruman footrot

Kuruman, Kuruman Dierkliniek

Beef: 3, Sheep: 3, Goat: 3

Lung infection

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	2.0 (2)		2.7 (9)	2.7 (20)	2.3 (4)	1.6 (8)	2.3 (6)	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

Beef	1.5 (2)			2.5 (4)	2.6 (10)	2.3 (3)	1.3 (4)	2.0 (2)	1.0 (1)
Dairy		3.0 (1)			3.0 (1)	2.0 (1)	2.0 (2)	2.5 (2)	
Sheep	2.0 (1)	1.0 (1)		2.8 (4)	2.7 (9)		2.0 (2)	2.5 (2)	2.5 (2)

Goat

3.0 (1)

2.5 (2)

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Sheep: 2

Middelburg, Neil Fourie Veeartsenydienste

Beef: 1

Acute interstitial pneumonia

Gauteng

Pretoria, ARC Irene

Dairy: 3

11 cases; Bull testing - 1 case

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1

North West

Bloemhof, Bloemhof Dierekliniek

Sheep: 3

Sheep not vaccinated

Goat: 3

Goats not vaccinated

Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2, Sheep: 2

Ventersdorp, Ventersdorp Dierekliniek

Beef: 3, Sheep: 3

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 1

Bloemfontein, Dr Stephan Wessels

Beef: 3, Sheep: 3

Bloemfontein, University Free State

Sheep: 1

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

Ficksburg, Oosvrystaat Diere Produkte

Beef: 3, Dairy: 3, Sheep: 3

Frankfort, Frankfort Dierekliniek

Beef: 3, Sheep: 3

Hertzogville, Hertzogville Dierekliniek

Sheep: 3

Two farms

Memel, Memel Veterinary Clinic

Beef: 3

Calves

Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

Vrede, Vrede Dierehospitaal

Beef: 2

Warden, Warden Dierekliniek 1

Sheep: 3

Wesselsbron, Wesselsbron Dierekliniek

Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Dundee, Endumeni Herd health

Beef: 2, Dairy: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Alexandria Platteland Spreekkamer

Beef: 1

Elliot, EG Veterinary Services Elliot

Beef: 2, Dairy: 2

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

Prenatal pneumonia in lamb pens from *Staphylococcus saprophyticus* (a common cause of public toilet cystitis in humans)

Uitenhage, Uitenhage Dierehospitaal

Beef: 1, Sheep: 1

Witelsbos, Witelsbos Veterinary Consulting Rooms

Dairy: 2

Western Cape

Caledon, Overberg Veterinary Hospital

Sheep: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 2

Moorreesburg, Korhaanrug Dieregesondheid

Beef: 2

Paarl, Paarl Dierehospitaal;

Beef: 2, Sheep: 2

Northern Cape

Kimberley, Staatsveeartse Groep NC

Beef: 1

Prieska

Sheep: 2

De Aar

Goat: 2

Kuruman

Upington, Upington Veeartsenykliniek

Sheep: 3

Bacterial pneumonia

Goat: 3

Bacterial pneumonia

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)		2.5 (2)	2.1 (8)	2.7 (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

Beef				2.5 (2)	2.0 (4)		1.0 (1)		
Dairy					2.3 (3)	2.7 (3)		1.0 (1)	
Sheep		1.0 (1)			2.0 (1)				

Gauteng

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 2

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 3

Bloemfontein, University Free State

Dairy: 2

1 x *E. coli*, 1 x *Streptococcus dysgalactiae*

Clocolan, Clocolan Dierekliniek

Dairy: 2

Excelsior, Weltevrede Dierekliniek

Beef: 1

Ficksburg, Oosvrystaat Diere Produkte

Beef: 2

Blue udder; general B 2

Kroonstad, Reitzstraat Veterinere Spreekkamer

Dairy: 3, Sheep: 2

Parys, Parys Dierehospitaal

Beef: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 2

Estcourt, Estcourt Vet Clinic

Dairy: 3

Underberg, Underberg Veterinary Surgery

Dairy: 3

Environmental mastitis - very wet and muddy

Eastern Cape

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Western Cape

Malmesbury, Dr Otto Kriek

Dairy: 1

Navel Ill ^

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

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

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

- North West**
- Vryburg, Molopo Dierekliniek**
- Beef: 2
- Free State**
- Clocolan, Clocolan Dierekliniek**
- Dairy: 1
- Wesselsbron, Wesselsbron Dierekliniek**
- Sheep: 2
- Kwazulu-Natal**
- Underberg, Underberg Veterinary Surgery**
- Dairy: 1
- Eastern Cape**
- Elliot, EG Veterinary Services Elliot**
- Dairy: 2, Sheep: 2

Trauma ^

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

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

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

North West**Leeudoringstad, Leeudoringstad Dierekliniek**

Beef: 1

Cow got stuck in cables

Free State**Bloemfontein, University Free State**

Sheep: 2

1 x Femur fracture, 1 x head wound (laceration)

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

Goat: 1

Goat gored by calf

Western Cape**Paarl, Paarl Dierehospitaal;**

Beef: 1, Dairy: 2

Northern Cape**Calvinia, Calvinia Veeartskliniek**

Beef: 2, Goat: 2

Downer									
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)	1.8 (5)	3.0 (3)		1.5 (2)	2.0 (1)
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported									
Beef		2.0 (1)	1.0 (1)	2.0 (1)	2.0 (3)	3.0 (2)		1.0 (1)	2.0 (1)
Dairy						3.0 (1)		2.0 (1)	
Sheep					2.0 (1)				
Goat					1.0 (1)				

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

Beef: 2

Limpopo**Polokwane, Pietersburg Veterinary Clinic**

Beef: 1

North West**Vryburg, Molopo Dierekliniek**

Beef: 2

Free State**Bultfontein, Greylingrust Dieresprekkamer**

Beef: 1, Sheep: 2

Excelsior, Weltevrede Dierekliniek

Goat: 1

Frankfort, Frankfort Dierekliniek

Beef: 3

Kroonstad, Reitzstraat Veterinere Spreekkamer

Beef: 2

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

Beef: 3

Estcourt, Estcourt Vet Clinic

Beef: 3, Dairy: 3

Western Cape**Paarl, Paarl Dierehospitaal;**

Beef: 1, Dairy: 2

Northern Cape**Kuruman, Kuruman Dierekliniek**

Beef: 2

Other

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

Mpumalanga**Lydenburg, Longtom Dierekliniek**

Sheep: 2

Tumours

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

Sheep: 2

Four cases of premature lambing, very little colostrum and udder development in ewes and cows

Pretoria, ARC Irene

Beef: 1

Tick bite necrosis - one case at Roodeplaat

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1

Horner syndrome

Free State**Bloemfontein, University Free State**

Dairy: 1

Submandibular seroma

Sheep: 2

Tail stump wounds due to tail docking procedure

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

Goat: 1

Rumen stasis

Eshowe, Eshowe Veterinary Hospital

Beef: 1

Jejuno-ileal mesenteric volvulus

Underberg, Underberg Veterinary Surgery

Dairy: 3

Milk production down; very wet pastures; pasture quality down; cows not eating what they should due to lameness

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Sheep: 3

SME - Starvation, mismothering, exposure. Retarded development of early placenta as a result of synchronisation and superovulation hormones. Severely underweight lambs, one of a triplet as a result of synchronisation and superovulation hormone. An unethical number of quads and sextuplets.

Vestibular syndrome (Middle ear infection)

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

Goat	1.0 (1)								
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Mpumalanga

Nelspruit, Nelspruit Animal Hospital

Goat: 1

Wet carcasses

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 (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

Beef								2.0 (1)	
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Dairy		1.0 (1)						2.0 (1)	
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Dairy: 1

Western Cape

Paarl, Paarl Dierehospitaal;

Beef: 2, Dairy: 2

Yellow carcasses at abattoir

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

Beef	3.0 (1)
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Dairy	2.0 (1)
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Western Cape

Paarl, Paarl Dierehospitaal;

Beef: 3, Dairy: 2

Metabolic Diseases

Acidosis [^](#)

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

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

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

Ermelo, Môregloed Veterinêre Spreekkamer

Goat: 1

Volkstrust, Grasslands vet clinic

Beef: 1, Sheep: 1

North West

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 2

Free State

Warden, Warden Dierekliniek

Beef: 3

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Dairy: 3

Western Cape

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

Displaced abomasum [^](#)

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

Dairy	1.0 (1)	3.0 (2)
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Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Dairy: 1

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 3

Estcourt, Estcourt Vet Clinic

Dairy: 3

Ketosis

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

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

Dairy						2.0 (1)			
Sheep					1.5 (2)	2.0 (1)		2.0 (3)	3.0 (1)

Free State

Clocolan, Clocolan Dierekliniek

Sheep: 1

Vrede, Saulshoek Dieregesondheid.

Sheep: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Sheep: 2

Estcourt, Estcourt Vet Clinic

Dairy: 2

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Sheep: 1

Moorreesburg, Korhaanrug Dieregesondheid

Sheep: 2

Piketberg, Piketberg Dierehospitaal

Sheep: 3

Domsiekte in late pregnant ewes

Northern Cape

Colesberg, Karoo Veterinary Hospital

Sheep: 3

Milk Fever

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

Free State

Reitz, Riemland Dierehospitaal

Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Sheep: 2

Kwazulu-Natal

Dundee, Endumeni Herd health

Dairy: 3

Estcourt, Estcourt Vet Clinic

Dairy: 3

Western Cape

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Reproductive diseases

Dystocia (Difficult Births)



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (6)	1.8 (4)	1.0 (1)	1.8 (9)	2.1 (17)	1.7 (3)	1.8 (6)	2.0 (6)	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 (4)	1.5 (2)	1.0 (1)	2.0 (6)	2.2 (12)	1.5 (2)	1.5 (4)	1.7 (3)	3.0 (1)
Dairy	1.0 (1)				2.0 (1)	2.0 (1)		2.0 (2)	
Sheep	1.0 (1)	2.0 (2)		1.3 (3)	2.0 (4)		2.5 (2)	3.0 (1)	1.0 (2)
Goat									1.0 (1)

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2, Sheep: 1

Ermelo, Mōregloed Veterinêre Spreekkamer

Dairy: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

Volkstrust, Grasslands vet clinic

Beef: 2

Gauteng

Nigel, Nigel Diere Sprekkamer

Beef: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 2

Rayton, Rayton Dierkliniek

Beef: 1

Limpopo

Polokwane, Pietersburg Veterinary Clinic

Beef: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

Schweizer-Reneke, Buffeldoorn Dierkliniek SR

Beef: 1

Ventersdorp, Ventersdorp Dierkliniek

Beef: 2, Sheep: 2

Vryburg, Molopo Dierkliniek

Beef: 3, Sheep: 1

Zeerust, Avontuur veterinary Practice

Beef: 2, Sheep: 1

Free State

Bethlehem, Bethlehem Animal Hospital

Beef: 2, Sheep: 1

Bloemfontein, Dr Stephan Wessels

Beef: 2

Bultfontein, Greylingrust Dieresprekkamer

Beef: 1

Clocolan, Clocolan Dierkliniek

Beef: 2

Hoopstad, Hoopstad Dierkliniek

Beef: 3, Sheep: 3

Kroonstad, Kroonstad Dierehospitaal

Beef: 3, Dairy: 2

Kroonstad, Reitzstraat Veterinere Sprekkamer

Beef: 2, Sheep: 2

Viljoenskroon, Viljoenskroon Dierkliniek

Beef: 2, Sheep: 2

Vrede, Saulshoek Diergesondheid.

Beef: 2

Vrede, Vrede Dierehospitaal

Beef: 3

Wesselsbron, Wesselsbron Dierkliniek

Beef: 1

Winburg, Winburg Dierkliniek

Beef: 3

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

Beef: 2

Dundee, Endumeni Herd health

Dairy: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Eastern Cape**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

Elliot, EG Veterinary Services Elliot

Beef: 2, Sheep: 2

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Beef: 1, Sheep: 3

Western Cape**Caledon, Overberg Veterinary Hospital**

Beef: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Bergzicht Dierehospitaal

Dairy: 2

Moorreesburg, Korhaanrug Dieregesondheid

Beef: 2, Sheep: 3

Oudtshoorn, Oudtshoorn Dierekliniek

Beef: 1

Northern Cape**Kimberley, Staatsveeartse Groep NC**

Sheep: 1

Prieska

Kuruman, Kuruman Dierekliniek

Beef: 3, Sheep: 1, Goat: 1

Endometritis

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

Beef					2.0 (1)				
Dairy						3.0 (1)	3.0 (1)	2.7 (3)	

Free State**Kroonstad, Reitzstraat Veterinêre Spreekkamer**

Beef: 2

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

Dairy: 3

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

Dairy: 3

Western Cape**Caledon, Caledon Dierekliniek**

Dairy: 3

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 2

Malmesbury, Bergzicht Dierehospitaal

Dairy: 3

Metritis

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

North West**Christiana, Christiana Dierehospitaal**

Beef: 3

Free State**Bloemfontein, Dr Stephan Wessels**

Beef: 2

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

Dairy: 2

Eastern Cape**Alexandria, Alexandria Platteland Spreekkamer**

Beef: 2

Elliot, EG Veterinary Services Elliot

Beef: 2, Sheep: 2

Western Cape**Caledon, Caledon Dierekliniek**

Dairy: 3

Darling, Tygerberg Dierehospitaal Darling

Dairy: 3

Malmesbury, Bergzicht Dierehospitaal

Dairy: 3

Poor conception

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average		2.0 (1)		2.8 (4)	2.3 (3)	2.3 (3)	2.0 (2)	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

Beef		2.0 (1)		2.7 (3)	2.3 (3)	1.0 (1)		3.0 (1)
Dairy						3.0 (1)	2.0 (2)	
Sheep				3.0 (1)		3.0 (1)		

Gauteng

Magaliesburg, Magaliesburg; Dr Ryan Jeffrey

Beef: 2

Poor pregnancy results on well managed farms

Free State

Excelsior, Weltevrede Dierkliniek

Beef: 3

Hoopstad, Kameeldoring Dierkliniek

Sheep: 3

Vrede, Saulshoek Diergesondheid.

Beef: 3

Warden, Warden Dierkliniek 1

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape

Alexandria, Riverview Trading Vet Consulting Services

Dairy: 3

Humansdorp, Humansdorp Veterinary Clinic

Beef: 1

Steynsburg, Steynsburg Dierhospitaal

Sheep: 3

Early foetal loss as a result of phyto-estrogens. Incorrect diagnosis in sheep with hydrometra as a result of phyto-estrogens

Western Cape

Caledon, Caledon Dierkliniek

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Northern Cape

Kuruman, Kuruman Dierkliniek

Beef: 3

Retained afterbirth



PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	2.0 (2)	1.2 (5)		1.5 (2)	1.5 (4)	2.0 (1)	2.0 (2)	1.7 (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

Beef	2.0 (2)	1.5 (2)		1.5 (2)	1.5 (4)		2.0 (1)	1.0 (1)	2.0 (1)
Dairy		1.0 (1)				2.0 (1)	2.0 (1)	2.0 (2)	
Sheep		1.0 (2)							

Mpumalanga

Bethal, Bethal Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Bronkhorstspuit, Kerkstraat Dierekliniek

Beef: 1, Sheep: 1

Nigel, Nigel Diere Spreekkamer

Beef: 2

Pretoria, ARC Irene

Dairy: 1

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Sheep: 1

North West

Christiana, Christiana Dierehospitaal

Beef: 2

Ventersdorp, Ventersdorp Dierekliniek

Beef: 1

Free State

Bloemfontein, Dr Stephan Wessels

Beef: 2

Clocolan, Clocolan Dierekliniek

Beef: 1

Parys, Parys Dierehospitaal

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Underberg, Underberg Veterinary Surgery

Dairy: 2

Eastern Cape

Elliot, EG Veterinary Services Elliot

Beef: 2, Dairy: 2

Western Cape

Malmesbury, Bergzicht Dierehospitaal

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Paarl, Paarl Dierehospitaal;

Beef: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Sheath Prolaps ↑

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

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

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 1

Preputial abscess/prolaps

Free State

Hoopstad, Hoopstad Dierekliniek

Beef: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 1

Kwazulu-Natal

Mtubatuba, Mtubatuba Animal Clinic

Beef: 1

Pongola, Pongola Animal Clinic

Beef: 1

Uterus prolaps ↑

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
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Average	1.5 (4)	2.0 (2)	1.0 (1)	1.0 (1)	2.0 (4)	1.0 (1)	1.0 (1)	1.4 (5)	1.8 (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

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

Ermelo, Mōregloed Veterinêre Spreekkamer

Goat: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 1

Lydenburg, Longtom Dierekliniek

Beef: 2, Sheep: 2

Gauteng

Nigel, Nigel Diere Spreekkamer

Beef: 2

Pretoria, Anima Veterinary Consulting Rooms

Sheep: 2

Limpopo

Mokopane, Bundu Veterinary Services

Beef: 1

North West

Vryburg, Molopo Dierekliniek

Beef: 1

Free State

Clocolan, Clocolan Dierekliniek

Beef: 2

Kroonstad, Kroonstad Dierehospitaal

Beef: 1, Sheep: 2

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Pietermaritzburg, Veterinary House Hospital

Beef: 1

Eastern Cape

Graaff-Reinet, Camdeboo Veterinary Clinic

Beef: 1

Western Cape

Caledon, Overberg Veterinary Hospital

Beef: 2

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 1, Sheep: 1

Malmesbury, Bergzicht Dierehospitaal

Dairy: 1

Worcester, Durban Straat Dierekliniek Worcester

Beef: 2

Northern Cape

Kimberley, Staatsveeartse Groep NC

Beef: 1

Kuruman

Sheep: 2

Prieska

Kuruman, Kuruman Dierekliniek

Beef: 2, Sheep: 2

Vaginal (Cervical) prolaps

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (2)	2.0 (2)			1.6 (8)	1.7 (3)		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 (2)	2.0 (1)		1.2 (5)	1.7 (3)			2.0 (1)
Sheep		2.0 (1)		2.3 (3)			1.0 (1)	

Mpumalanga

Grootvlei, Grootvlei Dierekliniek

Beef: 2

Lydenburg, Longtom Dierekliniek

Beef: 2

Gauteng

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Beef: 2, Sheep: 2

Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 1

Hoopstad, Hoopstad Dierekliniek

Sheep: 2

Hoopstad, Kameeldoring Dierekliniek

Beef: 1

Kroonstad, Kroonstad Dierehospitaal

Sheep: 3

Kroonstad, Reitzstraat Veterinere Spreekkamer

Beef: 1, Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 1

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 2

Estcourt, Estcourt Vet Clinic

Beef: 2

Pongola, Pongola Animal Clinic

Beef: 1

Western Cape

Malmesbury, Bergzicht Dierehospitaal

Sheep: 1

Northern Cape

Kuruman, Kuruman Dierekliniek

Beef: 2

Climatical Cause

Cold exposure

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

Sheep1.0
(1)**Free State****Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 1

Old ewes, poor condition after rains, wind and cold

Heat stress

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

Western Cape**Malmesbury, Dr Otto Kriek**

Dairy: 2

Lightning

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

1.5 (2)

1.5 (2)

1.8
(5)

2.0 (3)

1.5 (2)

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

Beef

1.5 (2)

1.5 (2)

1.8
(5)

2.0 (3)

1.5 (2)

Mpumalanga**Bethal, Bethal Dierekliniek**

Beef: 1

Lydenburg, Lydenburg Dieresprekkamer

Beef: 2

North West**Christiana, Christiana Dierehospitaal**

Beef: 1

Vryburg, Molopo Dierekliniek

Beef: 2

Free State**Ficksburg, Oosvrystaat Diere Produkte**

Beef: 2

Kroonstad, Reitzstraat Veterinere Spreekkamer

Beef: 1

Reitz, Riemland Dierehospitaal

Beef: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 2

Winburg, Winburg Dierekliniek

Beef: 2

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

Beef: 2

Newcastle, Ncanduvet Newcastle

Beef: 1

Underberg, Underberg Veterinary Surgery

Beef: 3

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 1

Humansdorp, Humansdorp Veterinary Clinic

Beef: 2

Residues**Drug residues**

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

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					1.5 (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)

Sheep

1.0 (1)

Free State**Wesselsbron, Wesselsbron Dierekliniek**

Sheep: 1

Winburg, Winburg Dierekliniek

Beef: 2

Dermatosparaxis [^](#)

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

Beef					1.0 (1)		1.0 (1)		
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Free State

Ficksburg, Oosvrystaat Diere Produkte

Beef: 1

Eastern Cape

Steynsburg, Steynsburg Dierehospitaal

Beef: 1

Drakensberger cow

Preditors [^](#)

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

Beef					1.5 (2)	2.0 (2)			
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Sheep					2.5 (2)				
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Free State

Oranjeville, Grasveld Kuddegesondheid

Beef: 1, Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 2

Kwazulu-Natal

Estcourt, Estcourt Vet Clinic

Beef: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Sabotage/Theft [^](#)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (2)			3.0 (2)	2.6 (7)	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)			3.0 (1)	2.5 (4)	2.5 (2)			
Sheep	3.0 (1)			3.0 (1)	2.7 (3)				

Mpumalanga

Lydenburg, Longtom Dierekliniek

Beef: 3, Sheep: 3

North West

Schweizer-Reneke, Buffeldoorn Dierekliniek SR

Beef: 3

70 calves, syndicate

Sheep: 3

Free State

Clocolan, Clocolan Dierekliniek

Beef: 3, Sheep: 3

Oranjeville, Grasveld Kuddegeseondheid

Beef: 2, Sheep: 2

Vrede, Saulshoek Dieregesondheid.

Beef: 2, Sheep: 3

Winburg, Winburg Dierekliniek

Beef: 3

Kwazulu-Natal

Bergville, Bergville Veterinary Clinic

Beef: 3

Pietermaritzburg, Veterinary House Hospital

Beef: 2

Trauma

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

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)		
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North West

Brits, Zodiac Dierekliniek

Beef: 1

Free State

Vrede, Saulshoek Dieregesondheid.

Beef: 1

Eastern Cape**Elliot, EG Veterinary Services Elliot**

Beef: 2

other

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

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

Beef				2.0 (1)					
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North West**Brits, Brits Dierekliniek**

Beef: 2

Traumatic Reticulo-pericarditis

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

Beef: 1

Free State**Winburg, Winburg Dierekliniek**

Beef: 2