# 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

## October 2018

(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 (129) submitted reports during October 2018:

#### Mpumalanga (10)

Balfour - Dr. Louis van Jaarsveld

Bethal – Dr. Hardus Pieters

Grootvlei – Dr. Neels van Wyk

Karino – Dr. Silke Pfitzer

Lydenburg – Dr. Marietjie Malan

Middelburg – Drs. Erasmus, Malan and Bernitz

Nelspruit – Dr. André Beytel

Piet Retief - Drs. Niebuhr and Weber

Standerton - Dr. Kobie Kroon

Volksrust – Dr. Johan Blaauw

#### Gauteng (8)

Bapsfontein – Drs. Englbrecht and Olivier

Bronkhorstspruit - Dr. De Bruin, De Bruin and Labuschagne

Hammanskraal – Dr. Hentie Engelbrecht

Magaliesburg - Dr. Ryan Jeffery

Nigel - Dr. Cindy van der Westhuizen

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

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

Pretoria – Dr. Hanneke Pienaar

Vanderbijlpark – Dr. Kobus Kok

#### Limpopo (9)

Bela-Bela – Dr. Nele Sabbe

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

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

Mokopane (Potgietersrust)- Dr. Henk Visser

Mokopane - Dr. Alwyn Venter (CCS)

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

Vaalwater – Dr. Annemieke Müller

#### North West (9)

Brits – Dr. Boshoff and Coertze

Christiana - Dr. Pieter Nel

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

Klerksdorp – Drs. Coetzee and Venter

Leeudoringstad - Dr. Ian Jonker

Lichtenburg – Dr. Nelmarie -Krüger-Rall

Stella - Dr. Magdaleen Vosser

Ventersdorp/ Koster – Drs. Benadé and Van der Merwe

Vryburg – Dr. Jurie Kritzinger

#### Free State (24)

Bethlehem – Drs. Strydom and Strydom

Bloemfontein - Dr. Stephan Wessels

Bultfontein – Dr. Santjie Pieterse

Clocolan – Drs. Wasserman and Basson

Dewetsdorp – Dr. Marike Badenhorst

Ladybrand – Drs. Dedré Nel

Ficksburg - Drs. Kotzé and Coetzer

Frankfort - Drs. Lessing, Cilliers and Janse van Rensburg

Gariep Dam – Dr. Marni Malan

Hertzogville – Dr. Nico Hendrikz

Hoopstad – Dr. Kobus Pretorius

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

Memel – Drs. Nixon and Nixon

Parys – Drs. Wessels and Wessels

Philippolis – Dr. Stephan van Niekerk

Reitz - Dr. Murray Smith

Smithfield – Dr. Nienke van Hasselt

Trompsburg – Dr. Wyn Irwin

Viljoenskroon – Dr. Johan Kahts

Villiers - Drs. Hattingh and Hauptfleish

Vrede – Drs. Myburgh and Bester-Cloete

Vrede - Dr. Rudolph Fourie

Wesselsbron - Dr. Johan Jacobs

Zastron – Drs. Troskie and Strauss

#### KwaZulu-Natal (12)

Bergville - Dr. Ariena Shepherd

Bergville – Dr. Jubie Muller

Camperdown – Dr. Anthony van Tonder

Dundee – Drs. Marais, Fynn and Reynolds

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

Kokstad – Drs. Clowes and Shrives

Mtubatuba – Dr. Trever Viljoen

Newcastle - dr. Barry Rafferty

Pietermaritzburg - Dr. Phillip Kretzmann

Pongola – Dr. Heinz Kohrs

Underberg - Drs. Collins, King and Delaney

Vryheid – Drs.Theron and Theron

#### Eastern Cape (16)

Alexandria - Dr. Johan Olivier

Alexandria – Dr. Charlene Boy

Aliwal North – Drs. Troskie and Strauss

Bathurst - Dr. Jane Pistorius

Cofimvaba – Dr. Werner Wentzel

Cradock - Dr. Frans Erasmus

Graaff- Reinet - Dr. Roland Larson

Graaff-Reinet – Drs. Hobson, Strydon and Hennesy

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

Jeffreys Bay – Drs. Lategan, Hoek and McFarlane

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

Somerset East – Drs. Farrel, Louw and Ross

Steynsburg – Dr. Johan Van Rooyen

Stutterheim – Dr. Dave Waterman

Uitenhage - Drs. Mulder and Krüger

Witelsbos – Dr. Elmien Kotze

#### Western Cape (23)

Beaufort West - Dr. Jaco Pienaar

Caledon – Drs. Retief, Coetzer and Janssen

Caledon – Drs. Louw and Viljoen

Ceres – Drs. Pieterse, Wium, De Villiers and Scheepers

Darling – Drs. Van der Merwe, Adam, Lord, Jenkins and Hodgson

George – Drs. Strydom, Truter and Pettifer

Heidelberg – Dr. Albert van Zyl

Malmesbury – Dr. Otto Kriek

Malmesbury – Dr. Markus Fourie

Malmesbury – Dr. Andries Lesch

Malmesbury – Drs. Heyns and Zolner

Moorreesburg – Drs. Kotzé and Sheridan Tygerbeg Animal Hospital

Oudtshoorn - Dr. Glen Carlisle

Oudtshoorn – Dr. Adriaan Olivier

Piketberg – Dr. André van der Merwe

Plettenberg Bay - Dr. André Reitz

Riversdale - Drs. Du Plessis, Taylor and De Bruyn

Stellenbosch - Dr. Alfred Kidd

Swellendam – Dr. Jacques Malan

Tulbagh/Ceres – Drs. Hamman, Wilson and Triegaardt

Vredenburg – Dr. Izak Rust

Wellington - Dr. Van Zyl and Louw

Worcester - Dr. Kobus Rabe

#### Northern Cape (9)

Calvinia – Dr. Bertus Nel

Colesberg – Drs. Rous and Rous

De Aar – Dr. Donald Anderson

Kathu – Dr. Jan Vorster

Kimberley – Drs. Van Heerden and Swart

Kuruman – Dr. Gerhard van der Westhuizen

Kuruman – Dr. Lea Shuda

Postmasburg – Dr. Boeta van der Merwe

Upington – Drs. Vorster and Visser

#### Feedlots (2)

Drs. Morris and Du Preez

Dr. Andy Hentzen

#### Laboratory reports (7)

Dr. Marijke Henton - Vetdiagnostix, Johannesburg

Dr. Liza du Plessis – Idexx SA - Johannesburg

Dr. Last – Vetdiagnostix, Pietermaritzburg

Dr. Sophette Gers – Pathcare, Cape Town

Dr. Annelie Cloete - Stellenbosch

Queenstown Provincial Laboratory

## **Summary**

October has been labled by the Afrikaans poet Louis Leipoldt as the prettiest month of the year. The Jacarandas of Pretoria is proof thereof. Hopefully by the time that you read this report rain has fallen in the summer rainfall area.

Rain with a rise in temperature is also a signal for farmers to be aware of the increase in internal and external parasite numbers. Information received from veterinary practices, as depicted in the tables in this report, confirms this.

Extremely important is to check lambs, pregnant ewes and calves for signs of infestation with internal parasites i.e. pinkish eye mucous membranes, bottle jaws, diarrhoea and weight loss. Your veterinarian can also assist you by doing faecal egg counts. It is also important that an anthelmintic should be chosen which is effective as resistant worms to certain anthelmintic active groups are present on some farms. Contact your veterinarian to assist you by performing faecal egg count reduction tests.

Tick and fly numbers, as reported, are also on the increase and so are the tick transmitted diseases i.e. African red water, Asiatic red water, anaplasmosis and heartwater. As blue tick resistance is rife an effective acaricide active should be chosen. Tests can be done to help you to choose the correct active. A slight increase was seen in the occurrence of insect transmittable diseases i.e. lumpy skin disease, ephemeral fever (three-day-stiff sickness) and blue tongue. Fortunately, as yet no report of Rift Valley Fever was reported.

Venereal disease, trichomonosis and vibriosis were reported from most provinces. These diseases can cause huge economic losses to cattle farmers and biosecurity measures should always be implemented. The following bacterial diseases, for which vaccines are available, were reported: blackquarter, botulism, pulpy kidney, lamb dysentery, swelled head, red gut, blood gut, tetanus, pasteurellosis, salmonellosis, bovine brucellosis, ram's disease, leptospirosis, *E. coli* and enzootic abortion. Consult with your veterinarian what your risk is and decide on a vaccination programme.

The following viral diseases were reported: BMC (snotsiekte), rabies, BVD, IBR, rota and corona virus, EBL, orf and warts.

Protozoal diseases reported were: African- and Asiatic red water (killer disease), coccidiosis and cryptosporidiosis. Cryptosporidiosis in combination with pathogenic *E.coli*, is causing huge losses of young lambs and calves. Biosecurity measures and high quality colostrum to off spring should be pursued on all farms to prevent these losses. Discuss measures with your veterinarian.

Toxicities reported were: cardiac glycoside, gifblaar, ink berry, tulip, *Cynanchum*, *Lantana*, *Senecio*, *Acacia nilotica*, vemeersiekte, chinkerinchee, rye grass, mycotoxicosis, diplodiosis, syringa berries, water contamination, urea, snake bite, blue green algae, copper, lead, hypo and glyphosate.

Due to drought conditions numerous animals suffered from protein and energy deficiencies. Downer cows, retained afterbirths, uterine prolapses, dystocias and vitamin A deficiencies and eye problems were reported.

Lung infections in animals were reported from all provinces where dust and fluctuations in temperatures played a huge role as contributing factors.

For details of other diseases and conditions read the full report.

#### **Eradication of Bovine Brucellosis (Infected herd programme basics)**

Dr.Sewellyn Davey, Brucellosis Steering Committee of the Animal Health Forum (sewellynd@elsenburg.com)

Bovine brucellosis is a highly contagious bacterial infection of cattle that not only causes **financial losses** but is also a **zoonosis** which means that the disease can be spread to humans either through contact with infected aborted material, calves and placentas, and consuming infected raw milk or dairy products. Once bovine brucellosis has been diagnosed on your farm it is essential that you recognise the importance of this fact and make the decision to eradicate the disease from your farm as soon as possible. As brucellosis is a controlled disease your farm will be **quarantined**. Speak to someone who has successfully eradicated the disease from their farm and together with someone who is knowledgeable about the disease draw up an eradication programme specifically designed for your farm conditions. You as a farmer and your State Vet need to work closely together to effectively eradicate bovine brucellosis from your farm. This close collaboration and action plan is needed as the management on each infected farm is different - so a "one size fits all" approach will not work. If the eradication programme is not working for you, discuss it with your State Vet and adapt the approach to make it manageable.

#### There are a few basic principles involved in eradication:

Bovine brucellosis is a **herd disease** and should be treated as such. This is because not all infected cattle may have formed antibodies against the disease and will show as "false negatives" on blood tests. Also, the disease can have a very **variable incubation period** from 2 weeks to months, or in some rare cases even years. Heifers can be "**latent carriers**" and although infected will not show that they are positive on blood tests until they are more than 5 months pregnant or even only after calving/abortion.

Do not go into denial about the disease. By not taking rapid action you will only allow more cattle to become infected and prolong the eradication process- - every time an infected heifer or cow calves on your farm she sheds millions of bacteria that infect the environment and serve as a source of infection for other animals on the farm. Infected animals will be branded with a "C" brand mark on the right hand side of the neck to show that they are infected. Have them slaughtered under a Red Cross permit as soon as possible after diagnosis at an approved abattoir. Do not sell animals from a herd under

quarantine to another farmer or at an auction as these animals can cause a new outbreak of infection on another farm and you can become **liable** for the spread of the disease!

Besides the tests and the slaughter aspect of brucellosis eradication, **management** of your herd is of utmost importance. **Adult vaccination** (as well as heifer vaccination as stated in the Animal Diseases Act) can be used after discussion with your vet, to reduce the numbers of bacteria released into the environment as well as the risk of abortion, and is used as a management tool to try and prevent the spread of disease within the herd. Adult vaccination can have its own draw back so must be discussed beforehand so that an informed decision can be made about its use.

Management can include better observations to try and determine if a heifer/cow is about to calve/abort and remove her from the herd to an "isolation" camp as soon as possible; removing any foetal material from the pasture as soon as possible and destroying it; increasing the size of camps so the cattle density is decreased; dividing your herd size into smaller numbers to try and prevent the risk of infecting more animals than necessary; separating high risk from low risk animals; disinfection of areas; creating calving cubicles that can be easily disinfected; looking at farm topography and water ways; etc. Dairies need a very high level of management as cows in milk congregate around the milking parlour at least 2 to 3 times a day, and around water and feed troughs more frequently.

**All** female cattle and bulls over the age of 18 months must be tested by means of **serology (blood samples)**. Serological testing of cattle is essential to **identify sero-positive infected animals**. It is essential that the animals are **permanently and individually identified** so that the positive blood test can be traced back to the correct animal, and that she can be branded with a C-brand on the right-hand side of her neck to identify her as infected.

**Blood testing intervals** will differ and initially cattle may be tested every 1 to 3 months until the first negative herd test is achieved in the quarantined herd. After that, testing may be done only every 3 months until 3 negative blood tests with 3 monthly intervals have been achieved. Thereafter a blood test is repeated after 6 months and if that is negative, another test is repeated after 12 months before a herd can be declared negative for the disease and quarantine lifted. However, if at any stage during this process a herd test comes back positive (even it is 1/1000 cattle) the increased testing intervals of 1 to 3 months will again be implemented and the regimen starts from the beginning. This testing regimen is used to take the very variable incubation period into consideration, as well as potentially latent carriers. If this is not done, a "two year breakdown" is often encountered when brucellosis is diagnosed within the herd. This is especially true when heifer calves born from infected cows are not removed from the herd.

With the frequency of testing involved in the eradication of brucellosis, it is very important that **handling facilities** (crushes, raceways and holding pens) are well built and maintained, that the animals are **permanently and individually identified** and that infected (positive) animals are sent to **slaughter** as soon as possible to remove the source of infection on the farm.

## 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

Signature:		
Date:		
** * Biosecurity		
Poor – speculates with cattle, does not vaccinate, poor fences, cattle come	into	contact

with other cattle

Owner or authorised representative: .....

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
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
NC	OTE: Vaccination does not mean freedom from OJD, vaccinated animals can still be carriers	S	
Sta	atement 8 and 9 apply only to already infected flocks, and such sheep can only be sold to o	ther inf	ected
flo	cks by law.		
Bu	yers should consult their veterinary advisor before any purchases.		10
_			
Sig	nature Date		
NΑ	Farm:		
17.1	District: VNER OR AUTHORIZED PRESENTATIVE	70	
The	e use of this declaration is supported by the following organisations:		













# **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 <a href="http://nahf.co.za/stakeholders/">http://nahf.co.za/stakeholders/</a>

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

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

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

Click on **Info centre** for more information on the "war" we have against Bovine Brucellosis. Please be up to date on the role all have to play to control this zoonotic disease. <a href="http://nahf.co.za/category/diseases/brucellosis/">http://nahf.co.za/category/diseases/brucellosis/</a>

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

This link will continuously be updated.

Information on **antibiotic resistance** is also available at this address: http://nahf.co.za/category/antibiotic-resistance/

## **Rural Veterinary Association of South Africa**

#### www.ruvasa.co.za

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

## Landbouweekblad's webpage

#### www.landbou.com

**Vra vir Faffa** 

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

Click on Beeste

Click on Siektes

Click on Brusellose

Stop Brusellose

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

Rapportering aan bure of ander eienaars oor die voorkoms van brusellose

Inligting oor brusellose op die NAHF se webblad

Kuddebestuur voor die dekseisoen

Bees Brusellose handleiding

Teenliggaamwaardes om beesbrusellose in koeie te bepaal

Veterinêre Strategie 2016 -2026

'n Dosyn dinge wat jy moet weet van beesbrusellose

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

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

Vervoer van diere uit 'n positiewe brusellose kudde

Beheer van brusellose in 'n beeskudde

Boerderypraktyke wat die gevaar van die voorkoms van brusellose verhoog

Pak brusellose by die horings

Brucellose kan jou lewe verwoes

Brusellose in wild

Bestuur van positiewe besmetlike misgeboorte beeste

Aankoop van beeste wat besmetlike misgeboorte het

Antwoorde oor brusellose

Behandeling van besmetlike misgeboorte

Besmetlike misgeboorte uitbreek in 'n kudde

Gevaar van brusellose onderskat

RB51-inenting teen brusellose in dragtige koeie

Alles oor Besmetlike Misgeboorte (BM)

Kompensasie vir BM en TB positiewe beeste?

Nóg vrae oor besmetlike misgeboorte

Koeie positief getoets vir besmetlike misgeboorte

Vrae, antwoorde oor besmetlike misgeboorte

Brucellose: Wat staan ons te doen?

#### Internal parasite control

www.wormx.info

## **Summary of disease report for October 2018**

129 Reports from veterinary practices and laboratories were received (Mpumalanga (MP) 10; Gauteng (G) 8; Limpopo (L) 9; Northwest (NW) 9; Free State (FS) 24; KwaZulu-Natal (KZN) 12; Eastern Cape (EC) 16; Western Cape (WC) 23: Northern Cape (NC) 9; Feedlots (FL) 2 and Laboratories (Lab) 7).

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	х	х	Х	х	х	х	х	х	х

Resistant roundworms	х				х				
Wireworm	х	х			х	х	х	х	
Brown stomach-worm							х		
Long-necked bankruptworm									
Large-mouthed bowelworm									
Nodularworm									х
Lungworm									
Eyeworm			х	х	х		х		
Parafilaria		х				х			
Tapeworms	х	х	х	х	х	х	х		х
Liver fluke	х	х	х	х				х	
Conical fluke	х				х	х	х	х	
Cysticercosis (measles)	х		х					х	
Schistosomiasis (bilharzia)									
Coccidiosis	х	х		х	х	х	х	х	х
Cryptosporidiosis	х			х	Х	х	х	х	

Early rain fell in many parts of South Africa. Use the five point check to keep on top of what is happening in the flock. For further detail contact your local veterinarian.

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

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

#### **Prevention of Cryptosporidiosis**

Since there is no vaccine or registered treatment for Cryptosporidium, prevention is the best control method. Animals with a good immune system will generally easily overcome Cryptosporidium, thus this must be the main aim in controlling Cryptosporidium. A consistent, vet approved and farm appropriate vaccination program for other diseases.

Ensure no nutritional deficiencies especially vitamin A and Selenium Excellent bio-security
Ensure clean water sources

## **External parasites**

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

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

Nasal bot	х		х	х		х

Blue tick infestations were reported from most provinces. Blue ticks (African and Asiatic blue ticks) are able to transmit red water, anaplasmosis and lumpy skin disease.

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

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

Discuss your tick control programme with your veterinarian as controlling ticks early in spring can prevent large outbreaks of ticks in the summer.

Below is a list of diseases transmitted by ticks.

#### Tick borne diseases

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

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

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

Numerous mortalities were reported!

The keyword is vaccinate your animals! Contact your veterinarian.

Anaplasmosis outbreaks were reported in 5 provinces. Biting flies are probably the main spreader of this disease!

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

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

This disease is caused by the toxin of the bont legged-tick.

#### Insect transmittable diseases

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

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

As soon as insect populations increase with warmer weather conditions, unvaccinated animals with a lack of immunity to insect transmittable diseases, will be the target of these diseases.

## Have you vaccinated your animals against Rift Valley Fever?

From experience I can tell you that when outbreaks of diseases occur, vaccines will be difficult to acquire as many people will be ordering vaccines all at once.

#### **Venerial diseases**

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

Venereal diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Trichomonosis	х		х	х	х	х	х		х
Vibriosis	х		х	х	х	х	х	х	
Pizzle disease									х
Actinobacillus seminis									

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

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

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

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

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

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

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

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

#### **Bacterial diseases**

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

Bacterial diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Anthrax									
Blackquarter	х	х		х	x	х	х		х
Botulism									Х

Pulpy kidney	х	х		х	х	х	х	х	
Lamb dysentery	х			х			х		х
Swelled head		х				х		х	х
Red gut (cattle)				х	х			х	х
Blood gut (sheep)	х			х	х			х	х
Tetanus		х			х		х	х	
Salmonellosis	х				х				
Bovine brucellosis	х		х	х	х	х			х
Brucella melitensis (goats)							х		
Ovine brucellosis (Ram's disease)	х				х			х	
Bovine tuberculosis									
Johne's								х	
Leptospirosis								х	
Listeriosis						х		х	
Pseudomonas	х	х							
Fusibacterium necrophorum								х	
Septicaemia	х	х							
E. coli	х	х		х	х	х	х	х	х
Enzootic abortion					х		х		х
Lumpy wool						х	х		
Uterine gangrene						х			х
Bovine dermatophilosis (Senkobo disease)		х							
Wooden tongue									
Lumpy jaw								х	

Multiclostridial vaccines should be used if blackquarter outbreaks still occur when only using a vaccine containing *Clostridium chauvoei*. Remember to give a booster vaccine when using an inactivate vaccine for the first time. Read the packet insert!! Study the table above and determine the risk for animals on your farm. Get advice from your veterinarian on *Cryptosporidium/E. coli* outbreaks in your area and what to do to prevent losses in lambs and calves.

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

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

#### 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)		х	х	х	х			х	х
Rabies (cattle)				х	х		х		
BVD		х				х		х	х
IBR					х	х			х
BRSV									
PI3									
Maedi visna virus									
Rotavirus / Coronavirus						х		х	
Enzootic bovine leucosis (EBL)			х		х		х	х	
Sheep leucosis									

Jaagsiekte								
Orf	х	х	х	х	х	х	х	х
Warts	х	х	х	х	х		х	х

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

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

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

Discuss vaccination programmes and biosecurity measures with your veterinarian.

## **Fungal diseases**

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

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

#### **Protozoal diseases**

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

## **Toxicities**

The following toxicities were reported by practices in the provinces:

Toxicities	MP	G	L	NW	FS	KZN	EC	wc	NC
Cardiac glycoside			х	х	х			х	
Slangkop									
Crotolaria									

Gifblaar	х	х						
Gousiekte								
Cestrum (ink berry)				х		х		
Tulip	х	х	х	х	х	х	х	
Cynanchum (bobbejaantou)							х	
Facial eczema							х	
Lantana	х		х		х	х		
Prussic acid							х	
Acacia nilotica		х						
Senecio					х	х		
Cotula nigellifolia (stagger wood)								
Geeldikkop (duwweltjies) and dikoor								
Vermeersiekte	х							
Hertia pallens (Nenta, krimpsiekte)								
Chrysocoma ciliata (bitterbos)								
Solanum incanum (maldronksiekte)								
Gomphocarpus (Asclepias) fruticosus (milkweed)								
Bracken fern								
January bush ( <i>Gnidia polycephalatus</i> )								
Chinkerinchee							х	
Ceylons rose								
Eucalyptus (bloekom) bark								
Kikuyu								
Ryegrass					х		х	

Paspalum staggers  Photosensitivity (Turknael, Erodium moschatum)  Photosensitivity (Stellenbosch)  Lusern  Mycotoxicosis  X  Aflatoxin  Diplodiosis  Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Donion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculotus)  Water contamination  Nitrate  Tannins  Urea	Ganskweek						
Photosensitivity (Turknael, Erodium moschatum)  Photosensitivity (Stellenbosch)  Lusern  Mycotoxicosis  X  Aflatoxin  Diplodiosis  Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Dinon poisoning  Bracken fern  Pollen beetle (Astylus atromaculatus)  Water contamination  X  X  X  X  X  X  X  X  X  X  X  X  X	daliskweek						
Photosensitivity (Turknael, Erodium moschatum)  Photosensitivity (Stellenbosch)  Lusern  Mycotoxicosis  X  Aflatoxin  Diplodiosis  Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Donion poisoning  Bracken fern  Pollen beetle (Astylus atromaculatus)  Water contamination  X  X  X  X  X  X  X  X  X  X  X  X  X	Paspalum staggers						
moschatum)         x           Photosensitivity (Stellenbosch)         x           Lusern         x           Mycotoxicosis         x           Aflatoxin         x           Diplodiosis         x           Lupins         x           Harpuisbos         x           Syringa berries         x           Acorn         x           Cycad         x           Kraalbos, Geelbos (Galenia africana)         x           Radish         x           Carrot poisoning         x           Onion poisoning         x           Bracken fern         x           Pollen beetle ( Astylus atromaculatus)           Water contamination         x           Nitrate         x           Tannins	Phalaris aquaticum (Phalaris staggers)						
Photosensitivity (Stellenbosch)  Lusern  Mycotoxicosis  X  Aflatoxin  Diplodiosis  Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  X  X  X  X  X  X  X  X  X  X  X  X	Photosensitivity (Turknael, Erodium					х	
Lusern         X <td>moschatum)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	moschatum)						
Mycotoxicosis         x         x         x           Aflatoxin         x         x         x           Diplodiosis         x         x         x           Lupins         x         x         x           Harpuisbos         x         x         x           Syringa berries         x         x         x           Acorn         x         x         x           Cycad         x         x         x           Kraalbos, Geelbos (Galenia africana)         x         x         x           Radish         x         x         x           Carrot poisoning         x         x         x           Onion poisoning         x         x         x           Bracken fern         x         x         x           Pollen beetle ( Astylus atromaculatus)         x         x         x           Water contamination         x         x         x           Nitrate         x         x         x	Photosensitivity (Stellenbosch)					х	
Aflatoxin  Diplodiosis  Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Diplodiosis  X  X  X  X  X  X  X  X  X  X  X  X  X	Lusern						
Diplodiosis	Mycotoxicosis	х				х	
Lupins  Harpuisbos  Syringa berries  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  X  X  Tannins	Aflatoxin						
Harpuisbos  Syringa berries  X  Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  X  X  Tannins	Diplodiosis		х				
Syringa berries x x Acorn	Lupins						
Acorn  Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Tannins	Harpuisbos						
Cycad  Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  x  X  Tannins	Syringa berries				х		
Kraalbos, Geelbos (Galenia africana)  Radish  Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Tannins	Acorn						
Radish Carrot poisoning Onion poisoning Bracken fern Pollen beetle ( Astylus atromaculatus) Water contamination x X X Tannins	Cycad						
Carrot poisoning  Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Nitrate  X  X	Kraalbos, Geelbos (Galenia africana)						
Onion poisoning  Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Nitrate  X  X  X	Radish						
Bracken fern  Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Nitrate  X  X  X	Carrot poisoning						
Pollen beetle ( Astylus atromaculatus)  Water contamination  X  Nitrate  X  X  X	Onion poisoning						
Water contamination x x x x  Nitrate x x x	Bracken fern						
Nitrate x x X Tannins	Pollen beetle ( Astylus atromaculatus)						
Tannins	Water contamination	х					
	Nitrate			х			х
Urea x	Tannins						
	Urea				х		

Salt							
Wet carcase syndrome							х
Snake bite			х		х		х
Moth cocoons (impaction)							
Blue green algae						Х	
Copper							х
Selenium							
Zinc							
Fluoride							
Lead				х			
Paraquat							
Phosamine							
Aldicarb							
Organophosphate							
Zinc phosphide							
Pyrethroid							
Amitraz							
Levamisole							
Ivermectin							
Moxidectin							
Oxytetracycline							
Tilmicosin							
Bromoxynil nitrate							
Ionophor							

Monensin						
Нуро					х	
Diazinon						
Glyphosate			х			
Chicken litter						

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

Do have activated charcoal on the farm as the antidote for tulip poisoning! Seven provinces reported tulip toxicity!

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

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

www.landbou.com

Vra vir Faffa

Klik op Indeks van antwoorde

Klik op Beeste of Skape

Klik op Vergiftigings

Klik op die Opskrifte

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

A few cases of Lantana-poisoning were reported.

Research are being done to control Lantana:

We would like to investigate involvement of your readers and yourself in the development of a National Programme for Management of Lantana similar to the attached National Programme for Management of Parthenium. Our focus would be on the biological control of the species, however, farmers, landowners and communities would be interested in an integrated approach to the management of the species. Please do bear in mind that the rust-fungus will unfortunately not be a 'silver-bullet' as it is likely to impact some subspecies more than others and work better in some micro-climates than others..

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

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

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

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

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

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

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

#### **Nutritional deficiencies**

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

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

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

#### 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						х			
Copper									
Zinc							х		
Selenium				х		х	х	х	х
Magnesium							х		
Manganese							х		
Vitamin A				х	Х		х		
Vitamin B 1							х		

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 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	х		х	х	х	х		х	х
Stillbirths	х				х	х	х	х	х
Abscesses	х	х		х	х	х	х	х	х
Intestinal ulcers									

Bladder stones –urolithiasis							х	х	х
Blindness		х			х			х	х
Bloat	х	х			х	х	х	х	
Blue udder	х				х	х	х	х	х
Diarrhoea	х	х		х	х	х	х	х	
Epididymitis		х			х			х	
Eye cancer	х				х	х		х	х
Eye infections	х	х		х	х	х	х	х	
Joint ill	х	х			х	х	х	х	
Lameness/foot problems	х	х		х	х	х		х	
Lung infection	х	х	х	х	х	х	х	х	х
Mastitis	х			х	х	х	х	х	х
Navel ill	х	х			х	х	х	х	
Umbilical hernia									
Red gut (sheep, torsion of gut)	х				х		х		
Rectal prolaps									
Swelsiekte									
Traumatic reticulo-pericarditis	х	х				х	х	х	
Trauma	х	х				х		х	
Teeth wear									
Plastic bags (ingestion)									
Downer	х	х		х	Х	х		х	х
Anaphylactic shock									
Vestibular syndrome (middle ear infection)									
				]		]			

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, etc. The necessary preventative measures can then be taken.

Pneumonia and lameness (foot conditions) are wide spread.

#### **Metabolic diseases**

The following diseases were reported by practices in the provinces:

Metabolic diseases	MP	G	L	NW	FS	KZN	EC	wc	NC
Acidosis	х	х	х	х	х	х	х	х	х
Displaced abomasum		х	х			х		х	
Ketosis (Domsiekte)					х			х	
Milk fever	х				х	х		х	

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

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

## **Reproductive diseases**

Reproductive diseases	MP	G	L	NW	FS	KZN	EC	WC	NC
Dystocia (difficult births)	х	х	х	х	х	х	х	х	х
Endometritis					х	х		х	
Hydrops									
Metritis	х	х		х	х	х	х	х	
Poor conception	х				х	х		х	
Retained afterbirth	х	х		х	х	х		х	х
Sheath prolaps	х			х	х	х			
Uterine prolaps	х	х	х	х	Х	х	Х	х	х

Vaginal prolaps	х	х	х	х	х	х	х	х	
Penis injury									
Orchitis									

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

#### **Environmental conditions**

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

## **Other conditions**

	MP	G	L	NW	FS	KZN	EC	wc	NC
Drug residues (milk, meat, liver, kidney etc)									
Preditors		х			х	х	х	х	
Theft					х	х			
Trauma (fractures etc)	х	х	х		х		х	х	
Trauma (veldfires)	х				х				

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. <a href="http://www.rpo.co.za/BestPractices/English.aspx">http://www.rpo.co.za/BestPractices/English.aspx</a>

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

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

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

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

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

Have there been any recent disease outbreaks in the location?

Do brand marks clearly confirm ownership?

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

Is a veterinarian supported control program against transmittable diseases followed?

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

Dates and tests for zoonotic diseases

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

#### 2. PURCHASES FROM SALES OR SPECULATORS

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

- \* brand marks
- \* parasite infestation

#### 3. TRANSPORT TO THE FARM

Use only reputable transporters

Has the truck been cleaned and disinfected?

Truck to follow the shortest uninterrupted route

Truck to take the shortest route to the handling facilities

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

#### 4. ARRIVAL ON THE FARM

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

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

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

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

Inspect regularly

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

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

Purchase feed from reputable dealers only

Avoid buying feed in second hand bags

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

#### 6. VISITORS

Do not allow strangers or their vehicles amongst the livestock

Ensure fences are well maintained and preferably jackal and warthog proof

#### 7. EMPLOYEES

Do not allow the employees to eat in feed stores

Supply employees with sufficient ablution facilities

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

Keep record of all employee livestock on the property

Treat employee livestock with separate but dedicated health programs

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

#### **GENERAL AND REPRODUCTION MANAGEMENT**

Record keeping: All animals are individually identified and recorded.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Practices that had nothing to report

Cape Town – Sophette Gers Mokopane – Dr. Alwyn Venter (SV) Stutterheim – Dr. Dave Waterman Tulbagh – Dr. Dirk Trigaardt Vaalwater – Dr. Annemieke Müller Vanderbijlpark – Dr. Kobus Kok

#### **Ostriches**

## **Western Cape**

#### Oudtshoorn

Yolk sack	Start of the new season, acute mortalities (low insidence).
infection	Septicaemia/ toxaemia, <i>E. coli</i>
Diarrhoea	Starts with overgrowth of normal bacteria following a trigger stress situation. If treated too late or with hard antibiotics, rapidly develop chronic diarrhoea, due to resistant <i>E. coli</i> . Prognosis poor.
Avian influenza	High prevalence of wild bird interactions following short good rains – mostly pastures. Spiuwing geese, Egyption geese and blue cranes. Not H5 or H7. Seems like a H6 and H9. Cold weather with stress increases susceptablity.
Eye and lung infection	Cold stress weather/ wind, dust confinement to protect birds from poor weather results in air sacculitis and conjunctivitis (with low vitamin A and E during winter contributes)
Clostridial enterotoaxaemia	Changing weather results in over eating after bad spell causing clostridial overgrowth.

Low conception	High % infertile/ high male ration with severe climatic fluctuations
	40 degrees Celsius for week, drop to 14 degrees Celsius results
	in many early embryo deaths.

## **Equines**

### Limpopo

#### Makhado

African Horse sickness – 3 cases

#### Modimolle

Fever – Unknown origin, improved after treatment Urethra obstruction – caused by miasis (fly larvae)

#### **Free State**

#### **Bethlehem**

Colic - 2

#### Dewetsdorp

Internal parasites – 3 foals

#### **Parys**

Opthalmia - 3

## **Western Cape**

#### Darling

Midges – 1

Nuisance flies - 1

#### Game

## Gauteng

#### Pretoria

Bont tick - 2

Blackquarter – 1

Coccidiosis – 1

Lameness – 1

Opthalmia - 2 Moraxella

## Limpopo

#### Makhado

Red gut – 1 Roan

#### Bela-bela

Anaemia – 1 Sable died, probably wireworm

Snare – 1 Nyala, snare around neck

Hair loss (mites?) – 9 Sable out of one camp. Antiparasitic treatment given and minerals in water trough. Recovered, only one small buck still with hairloss.

Enteritis – 1 Waterbuck bull. Bloody from anus. Died, at necropsy sever enteritis. Only 2 days on farm.

North West Klerksdorp Bont-legged ticks - 3 Lichtenburg Rabies – Two jackals

#### **Swine**

Gauteng Pretoria Fractures – 1 Biting lice – 1

KwaZulu-Natal Bergville Intestinal roundworms - 2

# Monthly report on Livestock and Wildlife isolations for October 2018 from Vetdiagnostix – Microbiology Laboratory, supplied by dr. Marijke Henton (henton@vetdx.co.za)

October was a relatively quiet month.

Clostridial myositis cases differed somewhat from the usual this month. There were three cases of *Clostridium chauvoei* and no other cases. Because most farmers vaccinate against *C. chauvoei* even if they neglect other vaccinations, it is rare to receive exclusively *C. chauvoei* samples.

There is a prevalent misconception that the FA test also detects *Clostridium perfringens*. *C. perfringens* can sometimes also cause myositis, but it is rare. The FA test is for muscle samples, not for intestinal samples.

An unusual case of myositis and ventral oedema in goats was negative on the FA test, but was due to the vaccine strain of anthrax. It is difficult to clear multidose injectors of vaccine spores. Spores survive most cleaning procedures. This is not a problem for most of our farm animals, as a few extra vaccine spores just boost their immunity. Goats are exquisitely sensitive to the anthrax vaccine strain, and if some spores are present, particularly when an oily preparation is being administered, goats show marked oedema near the site of vaccination, which can result in death. The oil or other components act as adjuvants, exacerbating the reaction.

Salmonella Dublin was isolated from two outbreaks in cattle, where vaccination was not done. Cattle can carry Salmonella Dublin all their lives, and only excrete it from time to time, making it difficult to detect. The carrier animals act as a source of infection.

Other bovine infections were pneumonia [Mannheimia haemolytica, Pasteurella multocida and two cases of Trueperella pyogenes]. Trueperella pyogenes was also associated with two cases of abortion and one of abscessation. Brucella abortus was isolated from a foetus originating from a speculator's farm.

Enteritis was associated with *E. coli* [calves 17, lambs 2] and *Cryptosporidium* [4 calves]. Bovine *Clostridium perfringens* enteritis was present on two farms.

Pneumonia in pigs was due to *Actinobacillus pleuropneumoniae* in two cases, one of which typed as type 2, as well as one case each of *Bordetella bronchiseptica, Staphylococcus aureus, Klebsiella pneumoniae* and *Streptococcus suis. E. coli* was associated with enteritis [2] and septicaemia [1]. *Streptococcus porcinus* was isolated from a case of vaginitis.

Wildlife isolates were *Streptococcus canis* from a cheetah's nasal discharge, and osteomyelitis after a wound infection in a rhino yielded combined *Trueperella pyogenes* and the anaerobe, *Porphyromonas*.

Maryke Henton, Vetdiagnostix.

## Feedlot report received from Drs. Shaun Morris and Eben du Preez for October 2018 (edupreez1@telkomsa.net)

Condition	Comments and Specie
Intestinal roundworms	O 3, C 3
Tapeworms	0 2
Liver fluke	В 3
Parafilaria	В 3
Cysticercosis (measles)	В 3
Blue ticks	В 3
Heartwater tick	B 1
Brown ear-tick	В 3
Heartwater tick	В 3
Bont- legged tick	В 3

Red-legged tick	B3, O 3
Biting lice	B 2
Blow flies	0 2
Asiatic red water	B 2
Anaplasmosis	В 3
Heartwater	B 2, C 1
Lumpy skin disease	В 3
Blackleg	B 1
Swelled head	B2, O 1
Red gut	В 3
Blood gut	O 3
Pulpy kidney	O 3
Salmonellosis	B 1
E. coli	B 3,O 3
Coccidiosis	0 1
Cryptosporidisis	B 3, O 2
Ringworm	В 3
IBR	B 1
Warts	В 3
Protein deficiency	В 3
Energy deficiency	B3, O 3
Phosphate deficiency	В 3
Selenium	01
Vitamin A deficiency	В 3, О 3

Inkberry poisoning	В 3
Dystocia	B 2
Retained afterbirths	B 1
Abscesses	В 3, О 3
Eye infection	В 3, О 3
Lameness	В 3
Lungs	B3, O 3
Diarrhoea	В 3, О 3
Pericarditis	B 3, O 1
Trauma	В 3, О 3
Heat stroke	B 2
Farmers reporting	Acidosis B3
	Urolithiasis 2 Bulls, 2
	rams

# Feedlot report received from Dr. Andy Hentzen October 2018 (andyvet@mweb.co.za)

Condition	Comments and Specie
Tapeworms	В 3
Liver fluke	В 3
Conical fluke	B 1
Parafilaria	B 2
Cysticercosis (measles)	B 2

Red-legged tick B 2  Biting lice B 2  Sucking lice B 2  Blow flies B 1  African red water B 1  Anaplasmosis B 1  Red gut B 3  Leptospirosis B 1  E. coli B 1  Ringworm B 3  IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Mastitis B 1  Eve infection B 3	Blue ticks	B 2
Sucking lice         B 2           Blow flies         B 1           African red water         B 1           Anaplasmosis         B 1           Red gut         B 3           Leptospirosis         B 1           E. coli         B 1           Ringworm         B 3           IBR         B 3           BVD         B 2           EBL         B 1           Warts         B 3           Tulip toxicity         B 2           Water contamination         B 3           Protein deficiency         B 3           Energy deficiency         B 3           Micro-mineral deficiencies         B 3           Abortion         B 3           Dystocia         B 3           Mastitis         B 1	Red-legged tick	B 2
Blow flies B 1  African red water B 1  Anaplasmosis B 1  Red gut B 3  Leptospirosis B 1  E. coli B 1  Ringworm B 3  IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Mastitis B 1	Biting lice	B 2
African red water B 1  Anaplasmosis B 1  Red gut B 3  Leptospirosis B 1  E · coli B 1  Ringworm B 3  IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Mastitis B 1	Sucking lice	B 2
Anaplasmosis         B 1           Red gut         B 3           Leptospirosis         B 1           E · coli         B 1           Ringworm         B 3           IBR         B 3           BVD         B 2           EBL         B 1           Warts         B 3           Tulip toxicity         B 2           Water contamination         B 3           Protein deficiency         B 3           Energy deficiency         B 3           Micro-mineral deficiencies         B 3           Abortion         B 3           Dystocia         B 3           Mastitis         B 1	Blow flies	B 1
Red gut         B 3           Leptospirosis         B 1           E . coli         B 1           Ringworm         B 3           IBR         B 3           BVD         B 2           EBL         B 1           Warts         B 3           Tulip toxicity         B 2           Water contamination         B 3           Protein deficiency         B 3           Energy deficiency         B 3           Micro-mineral deficiencies         B 3           Abortion         B 3           Dystocia         B 3           Mastitis         B 1	African red water	B 1
Leptospirosis B 1  E. coli B 1  Ringworm B 3  IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Anaplasmosis	B 1
E. coli         B 1           Ringworm         B 3           IBR         B 3           BVD         B 2           EBL         B 1           Warts         B 3           Tulip toxicity         B 2           Water contamination         B 3           Protein deficiency         B 3           Energy deficiency         B 3           Micro-mineral deficiencies         B 3           Abortion         B 3           Dystocia         B 3           Mastitis         B 1	Red gut	B 3
Ringworm B 3  IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Leptospirosis	B 1
IBR B 3  BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	E . coli	B 1
BVD B 2  EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Ringworm	B 3
EBL B 1  Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	IBR	B 3
Warts B 3  Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	BVD	B 2
Tulip toxicity B 2  Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	EBL	B 1
Water contamination B 3  Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Warts	B 3
Protein deficiency B 3  Energy deficiency B 3  Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Tulip toxicity	B 2
Energy deficiency  B 3  Micro-mineral deficiencies  B 3  Abortion  B 3  Dystocia  B 3  Mastitis  B 1	Water contamination	B 3
Micro-mineral deficiencies B 3  Abortion B 3  Dystocia B 3  Mastitis B 1	Protein deficiency	B 3
Abortion B 3  Dystocia B 3  Mastitis B 1	Energy deficiency	B 3
Dystocia B 3  Mastitis B 1	Micro-mineral deficiencies	B 3
Mastitis B 1	Abortion	B 3
	Dystocia	B 3
Eye infection B 3	Mastitis	B 1
	Eye infection	B 3

Lameness	В 3
Lungs	В 3
Abscesses	B,C3
Diarrhoea	В 3

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

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

LIVESTOCK DISEASE SURVEILANCE			
LIVESTOCK SPECIES DISEASE AGENT NO. CASES LOCATI		LOCATION	
	Cotula (Matricaria) nigellifolia -		
Bovine, Heifer Calf	Stootsiekte	1	Howick, KZN
Bovine, Jersey Cow 7 yrs	Retrobulbar lymphoma - EBL	1	Underberg, KZN
Bovine, Feedlot Weaner	Sporadic Bovine Leukosis	1	Heidelberg, Gauteng

WILDLIFE DISEASE SURVEILANCE			
NO.			
WILDLIFE SPECIES	DISEASE AGENT	CASES	LOCATION
	Cholangiocellular carcinoma + pulmonary		Rustenburg, North
Lion, Adult Male	metastasis	1	West
			Hoedspruit,
Buffalo, Adult Cow	Babesiosis	1	Limpopo
			Thabazimbi,
Sable, Adult Bull	Babesiosis	1	Limpopo
Zebra, Adults	Transport tetany 1 K		Kenya
			Thabazimbi,
Buffalo, Adult cow	Fibropapilloma (sarcoid)	1	Limpopo
White Rhino, Adult			Krugersdorp,
Female	Heartpluck (visceral) clostridial myositis	1	Gauteng
Mangabey Monkey,			Lammermoor,
Adult	Hepatic echinococcosis	1	Gauteng

# Monthly report on Livestock and Wildlife isolations for October 2018 from IDEXX Laboratories supplied by dr. Liza du Plessis (<u>Liza-DuPlessis@idexx.com</u>)

Condition	Comments and Specie
Blue ticks	E 1
Bont tick	B, G 1
Brown ear ticks	E 1
Red -legged ticks	E 1
Black leg	B 1
Salmonellosis	B, G 1
Coccidiosis	01
Cryptosporidiosis	01
Bacterial enteritis (diarrhoea)	B, O 1
Bovine malignant catharr (snotsiekte)	B 2
IBR	B 3
Equine sarcoid	E 1
Navell ill	B 2
Lungs	B 1
Abortion	B 3, O 1, C 1
Tulip toxicity	B 2
Senecio toxicity	01



Section of Pathology Department of Paraclinical Sciences Faculty of Veterinary Science

1<sup>st</sup> November 2018 DAFF Import/Export Policy Unit Subdirectorate

## Monthly report: Faculty of Veterinary Science cases Cases sent to referring veterinarians between 2<sup>nd</sup> October and 1<sup>st</sup> November 2018

#### Cases from State vet Skukuza or Orpen

Cases imported with master permit (none)

PMDate	Species	Final	Histo No
19-Sep-18	Hippopotamus	Normal tissues (TB monitoring)	S3236-18
19-Sep-18	African Elephant	Suspected tuberculosis	S3237-18
20-Sep-18	African buffalo	Water deprivation	S3240-18
25-Sep-18	Lion	Subcutaneous fibrolipoma	S3303-18
27-Sep-18	Cheetah	Suspected lead toxicity	S3364-18
03-Oct-18	African Elephant	Normal tissues (TB monitoring)	S3390-18
03-Oct-18	Hippopotamus	Normal tissues (TB monitoring)	S3391-18
05-Oct-18	Lion	Granulosa cell tumours, leiomyomas, cystic endometrial hyperplasia	S3435-18

Kind regards,

Prof. Emily Mitchell

DISEASE DISTRIBUTION REPORT AS REPORTED BY VETERINARIANS		
Table of Contents		
<u>Internal Parasites</u>	Roundworms in general, Resistant Round Worms, Wireworm, Brown stomach-worm, Nodular worm, Eye worm ( <i>Thelazia rhodesii</i> ), Tape Worms, Parafilaria, Liver fluke, Conical Flukes, Cysticercosis	
External Parasites	Blue ticks, Resistant blue Ticks, Heartwater (Bont) ticks, Brown earticks, Bont-legged ticks, Red-legged ticks, Paralysis ticks, Biting lice (red lice), Sucking lice (blue lice), Scab mites, Mange Mites, Nuisance Flies, Blowflies, Screw-worm, Nasal bot larvae, Midges, Mosquitoes, Other, Itch mite	
<u>Tick-borne Diseases</u>	African red water, Asiatic red water, Anaplasmosis, Heartwater, Sweating Sickness, Theileriosis	
Insect Transmittable Diseases	Lumpy skin disease, Three-day-stiffsickness, Blue tonque, Nagana	
Venereal Diseases	<u>Trichomonosis</u> , <u>Vibriosis</u> , <u>Pizzle disease</u>	
Bacterial Disease (other)	Blackquarter, Botulism, Pulpy Kidney, Lamb dysentry, Swelled head disease, Red qut (cattle), Blood qut (Sheep), Tetanus, Salmonellosis, Brucella abortus, Brucella ovis, Johne`s disease, Leptospirosis, Septicaemia, E.coli, Enzootic Abortion, Dermatophilosis (Lumpy Wool), Intrauterine Gangrene, Bovine Dermatophilosis (Senkobo disease), Fusibacterium necrophorum, Listeriosis, Other	
Protozoal diseases (other)	Besnoitiosis, Coccidiosis, Cryptosporidium	
<u>Fungal diseases</u>	Ringworm	
<u>Viral Diseases (other)</u>	BMC, Rabies, BVD (Bovine viral diarrhoea), IBR (Infectious bovine rhinotracheitis), Enzootic Bovine Leucosis (EBL), Orf, Warts, Rota virus, Corona Virus, Other viral disease not listed	
Poisonings (Plant) and Fungal	Cardiac glycoside poisoning, Cestrum, Cynanchum poisoning, Facial eczema, Gifblaar, Lantana, Nitrate poisoning, Prussic acid poisoning, Rye grass poisoning, Seneciosis, Tulip Poisoning, Vermeersiekte (Gaigeria spp.), Mycotoxicosis, Diplodiosis, Other	
<u>Poisonings</u>	Water contamination, Urea Poisoning, Snake Bite, Hypo, Blue-green algae, Copper Poisoning, Chemical products, Other	
Macro Nutritional Problems	Energy deficiency, Protein deficiency, Phosphate deficiency, Calcium deficiency	

Micro Nutritional Problems	<u>Iodine deficiency</u> , <u>Zinc deficiency</u> , <u>Selenium deficiency</u> , <u>Magnesium deficiency</u> , <u>Manganese deficiency</u> , <u>Vitamin A deficiency</u> , <u>Vitamin B deficiency</u>
Multi-factorial Disease Conditions	Abortions, Stillbirths, Abscesses, Abscesses in general, Bladder stones, Blindness, Bloat, Blood qut (sheep and qoat), Blue udder, Diarrhoea, Epididymitis, Eye Cancer, Eye infections, Joint III, Lameness/Foot Problems, Lunq infection, Mastitis in general, Navel III, Redgut (Sheep), Trauma, Downer, Traumatic Reticulo-pericarditis, Other
Metabolic Diseases	Acidosis, Displaced abomasum, Ketosis, Milk Fever
Reproductive diseases	Dystocia (Difficult Births), Endometritis, Metritis, Poor conception, Retained afterbirth, Sheath Prolaps, Uterus prolaps, Vaqinal (Cervical) prolaps
Climatical Cause	Cold exposure, Drought, Heat stress, Lightning, Frozen to death
Non specific diseases	Preditors, Sabotation - Theft, Trauma, Veld fires

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Roundwo	orms in gen	eral							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.4 (5)	2.0 (2)	2.3 (3)	1.0 (1)	2.4 (8)	1.8 (8)	1.8 (5)	1.8 (5)	1.6 (5)

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

Beef	1.0(1)				1.7 (3)		1.0(1)	
Sheep	1.5 (2)	2.0 (2)	2.5 (2)	1.0 (1) 2.4 (8)	2.0 (2)	1.8 (4)	2.0 (4)	1.3 (3)
Goat	1.5 (2)		2.0 (1)		1.7 (3)	2.0 (1)		2.0 (2)

#### Mpumalanga

#### Balfour, Balfour Dierekliniek

Beef: 1, Sheep: 1, Goat: 1

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

Goat: 2

#### Standerton, Econovet

Sheep: 2 **Gauteng** 

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

Sheep: 2

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

Sheep: 2 **Limpopo** 

#### Makhado, Blouberg Dierekliniek

Sheep: 3 Eight cases

#### Polokwane, Pietersburg Veterinary Clinic

Sheep: 2, Goat: 2 **North West** Klerksdorp, Klerksdorp Dierehospitaal Sheep: 1 Free State **Bloemfontein, Dr Stephan Wessels** Sheep: 3 Ficksburg, Oosvrystaat Diere Produkte Sheep: 2 **Gariepdam, Gariep Dierekliniek** Sheep: 3 High parasite burden Hertzogville, Hertzogville Dierekliniek Hoopstad, Hoopstad Dierekliniek Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Sheep: 2 **Kwazulu-Natal** Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 **Dundee, Endumeni Herd health** Sheep: 2 **Estcourt, Estcourt Vet Clinic** Beef: 1, Goat: 1 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2, Goat: 2 **Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Sheep: 2, Goat: 2 **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 Queenstown, Queenstown Veterinary clinic Sheep: 2 **Uitenhage, Uitenhage Dierehospitaal** Sheep: 1 **Western Cape** Caledon, Overberg Veterinary Hospital Sheep: 1 Heidelberg (WC), Heidelberg Dierekliniek Sheep: 3 Moorreesburg, Tygerberg mooreesburg Sheep: 3 Riversdale, Riversdal Dierekliniek Stellenbosch, Stellenbosch Animal Hospital Beef: 1 **Northern Cape** Kimberley, Kimberley Dierekliniek Sheep: 1

Kuruman, Kuruman Dierekliniek

Sheep: 2, Go	at: 2								
	rg, Postmasbu	rg Dierek	liniek						
Sheep: 1, Go	at: 2								
Resistant	t Round Wo	rms							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				3.0 (2)				
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	1.0(1)				3.0 (2)				
Sheep: 1 Free State Bloemfonte Sheep: 3	lfour Diereklin ein, Dr Stephar Hoopstad Diere	ı Wessels							
Wirewor	m								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (5)	2.2 (6)	1.0 (1)		1.9 (7)	2.0 (2)	1.0 (2)	2.3 (3)	
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (4)	2.3 (3)	1.0 (1)		1.9 (7)	2.0 (2)	1.0 (1)	2.3 (3)	
Goat	2.0(1)	2.0 (3)					1.0(1)		
Sheep: 1	ja hal Diereklinie Longtom Dier								
Sheep: 3	lelspruit Anim		ıl						
Goat: 2		•							
Standerton	, Econovet								
Sheep: 2	C V-I	l D:.		_1					
Volksrust, C Sheep: 2	Cape Cross Vol	KSTUST DIE	егепоѕріта	al					
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Sheep: 3, Go									

Sheep: 1, Go		linial-							
	elegen Dierek	liniek							
Sheep: 3									
•	nderstepoort A	cademic	Hospital a	na Proa	uction A	Animai Clinic	C		
Goat: 1									
Limpopo	.,								
	Kranskop Diei	rekliniek							
Sheep: 1									
	tbreak in one he	erd							
Free State									
	Greylingsrust	t Dierespr	eekkamer						
Sheep: 1									
	e, Hertzogville	Diereklin	iek						
Sheep: 2									
	loopstad Diere	ekliniek							
Sheep: 3									
	land Dierehos	pıtaal							
Sheep: 2									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Sheep: 2									
	shoek Dierepr	aktyk							
Sheep: 2									
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na									
•	dumeni Herd l	nealth							
Sheep: 2									
	zburg, Veterin	ary House	Hospital						
Sheep: 2									
Eastern Cap			-II I						
	et, Camdeboo	Veterinai	y Clinic						
Sheep: 1, Go									
Western Ca									
	orge Animal H	ospital							
Sheep: 3									
	,, Malmesbury	Dierehos	pitaal						
Sheep: 3									
	Riversdal Dier	rekliniek							
Sheep: 1									
Brown st	omach-wor	m							
Diowii su	omacm wor								
PROVINCE	Mpumalanga	Gautena	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
			1.763	West	State	Natal	Cape	Cape	Cape
Average							2.0 (1)		
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat							2.0(1)		

Goat: 2

Nodular v	worm								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep									3.0 (1)
Goat									3.0 (1)
Northern Ca	ne								
	uruman Diere	kliniek							
Sheep: 3, Go	at: 3								
Eye worn	n ( <i>Thelazia</i>	rhodesi	0						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (2)	2.0 (1)	2.0 (1)		1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.0(1)	2.0(1)			1.0(1)		
Sheep					2.0 (1)				
Goat			1.0(1)			_			
Limpopo				_					
	Pietersburg V	eterinary	Clinic						
Beef: 1, Goat	: 1								
North West									
	yburg Diereho	spitaal							
Beef: 2 Free State									
	Rowelsfonteir	veearte (	Snrookkan	nor					
Sheep: 2	I/OMEI3IOIIIEII	i vecaits	preekkali	ici					
	d but suspect <i>Ti</i>	<i>helazia</i> (eve	worm\infe	station					
Eastern Cap	· · · · · · · · · · · · · · · · · · ·	.c.azia (cy		2.00.0111					
-	n, Hertzogbrug	Dierekli	niek						
Beef: 1									
Tape Wo	rms								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	1.0 (3)	2.0 (1)	1.0(1)	2.0 (1)	2.2 (5)	2.0 (2)	1.0 (1)		2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case bu	ut less than t	en and 3 =	more than 1	.0 cases
Beef						2.0(1)			
Sheep	1.0 (3)	2.0 (1)	1.0 (1)	2.0 (1)	2.2 (5)	2.0 (1)			
Goat							1.0(1)		2.0(1)
Sheep: 1	four Diereklin								
•	nal Diereklinie	k							
Sheep: 1	· · · · · · · · · · · · · · · · · · ·			-1					
	Cape Cross Vol	ksrust Die	renospita	aı					
Sheep: 1									
Gauteng Protoria An	ima Veterinai	ar Conculti	na Poome						
Sheep: 2	iiiia veteiiiiai	y Consult	ilg Rooms	•					
Limpopo									
	Pietersburg \	/eterinary	Clinic						
Sheep: 1	· ictorosarg	, ,	<b></b>						
North West									
	Christiana Die	rehospita	al						
Sheep: 2									
Free State									
Bloemfonte	in, Dr Stephar	1 Wessels							
Sheep: 3									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 2									
	land Dierehos	pitaal							
Sheep: 2									
	gepoort Diere	kliniek Ve	nnootskap	)					
Sheep: 2									
	shoek Dierepr	aktyk							
Sheep: 2	1								
Kwazulu-Na		ami Hawasa	. Usanital						
Beef: 2	zburg, Veterin	iary House	Hospitai						
Calves									
Sheep: 2									
Lambs									
Eastern Cap	ne .								
	et, Camdeboo	Veterinar	y Clinic						
Goat: 1	,								
Northern Ca	аре								
	rg, Postmasbu	rg Dierekl	iniek						
Goat: 2									
Parafilari	ia								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0(1)				1.5 (2)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		1.0(1)				1.5 (2)			
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 1	•								
Kwazulu-Na	ıtal								
	ugela Vet Clini	ic							
Beef: 1									
	Mtubatuba Ar	nimal Clin	ic						
Beef: 2									
Liver fluk	æ								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0(1)	1.0 (1)	2.0 (1)				2.3 (4)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.0(1)		1.0(1)	2.0(1)				2.0 (3)	
Dairy								3.0 (1)	
Goat		1.0(1)							
Mpumalang	a								
Nelspruit, N	elspruit Anima	al Hospita	ıl						
Beef: 1									
•	nased on easter	n Highveld							
Gauteng			_						
	raal, Themba A	Animal Cli	nic						
Goat: 1									
Limpopo	Pietersburg V	otorinary	Clinic						
Beef: 1	rictersburg v	etermar y	Cillic						
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 2	т. от постор и	о. сс. р							
Western Ca	pe								
Caledon, Ov	erberg Veteri	nary Hosp	ital						
Beef: 1									
George, Geo	orge Animal H	ospital							
Beef: 3, Dairy									
	,, Malmesbury	Dierehos	pitaal						
Beef: 2									
Conical F	lukes								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				1.0 (2)	1.5 (2)	1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (1)				1.0 (1)	2.0 (1)			
Dairy						1.0(1)		1.0(1)	
Sheep					1.0 (1)		1.0 (1)		
Mpumalang									
	four Diereklin	iek							
Beef: 1									
Free State									
	Dosvrystaat Di	ere Produ	ıkte						
Sheep: 1	n, Wesselsbro	n Diarakli	niek						
Beef: 1	n, wesselsbro	n Dierekii	пек						
Kwazulu-Na	ıtal								
	tcourt Vet Clir	nic							
Dairy: 1									
Underberg,	<b>Underberg Ve</b>	terinary S	urgery						
Beef: 2									
Eastern Cap									
	h, Hertzogbrug	g Diereklii	niek						
Sheep: 1									
Western Ca	-	nami Haam	ital						
Dairy: 1	erberg Veteri	пагу поѕр	ılaı						
Cysticerc	osis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	3.0 (1)		1.0 (1)					1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	3.0 (1)		1.0(1)					1.0(1)	
Mpumalang	a								
	lelspruit Anim	al Hospita	l						
Beef: 3	-	•							
Limpopo									
	Dr Henk Visse	r							
Beef: 1									
Western Ca	-	00mit=1							
George, Geo	orge Animal H	ospitai							

Beef: 1									
<b>External</b>	<b>Parasites</b>								
Blue ticks	5								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (3)		1.5 (4)	2.0 (4)	2.4 (7)	2.0 (10)	1.7 (3)	2.3 (6)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (3)		2.0 (2)	2.3 (3)	2.3 (6)	2.0 (8)	1.7 (3)	2.7 (3)	
Dairy								2.0 (2)	
Sheep			1.0 (1)	1.0 (1)	3.0 (1)	2.0 (1)		2.0 (1)	
Goat			1.0(1)			2.0 (1)		-	
Beef: 3 Polokwane, Beef: 1, Shee North West Klerksdorp, Beef: 1, Shee Leeudorings Beef: 3 Vryburg, Vry Beef: 3 Free State Bloemfonte	louberg Dierel Pietersburg V p: 1, Goat: 1 Klerksdorp Di	eterinary erehospit ngstad Di spitaal	aal						
Beef: 3 <b>Hoopstad,</b> H	rankfort Diere								
Beef: 3	p: 3 Ladybrand Die nel Veterinary								
Beef: 1	shoek Dierepra								

Bergville, I	atal								
bergville, i		namı Clini	_						
Beef: 3	sergville veteri	nary Cilli	C .						
	Tugela Vet Clini	ic							
	ep: 2, Goat: 2								
	ndumeni Herd h	nealth							
Beef: 2	iddillelli flerd i	icaitii							
	.G.Veterinary S	Convicos							
Beef: 2	.G. vetermary 5	CI VICES							
	, Mtubatuba Ar	aimal Clin	io						
Beef: 2	, Mtubatuba Ai	IIIIIai Ciiii	IC .						
	tzburg, Veterin	ary House	Hoenital						
Beef: 2	tzburg, veteriii	ary rious	z i iospitai						
	on throughout V	Vintor							
	ongola Animal								
Beef: 1	Diigola Allillai	Cillic							
	, Underberg Ve	tarinary C	Surgery						
Beef: 2	, Jilueibeig Ve	cermany S	Jui yei y						
Eastern Ca	ne								
	pe , Alexandria Pla	atteland G	nrookkam	ner .					
Beef: 1	, AICAGIIUI IA PI	acceiaiiu S	preekkall	iei					
	th, Hertzogbrug	n Dioroklii	niak						
Beef: 2	.ii, Hei tzogbi u <u>t</u>	Diciekiii	IIICK						
	net, Graaff Reir	not Votori	nary Clinic	•					
Beef: 2	iet, Graan Ken	iet veteri	mary Cillin						
Western C	ano								
	gerberg Diereh	ocnitaal l	Darling						
Beef: 2, She		iospitaai i	Jailing						
	eorge Animal He	ocnital							
Beef: 3, Dai		ospitai							
	ry, Dr Otto Krie	l <sub>r</sub>							
Dairy: 1	y, Di Otto Kile	N.							
	ry, Malmesbury	Diorobos	nitaal						
Beef: 3	y, Maillesbury	Dieleilos	pitaai						
Resistan	t blue Ticks								^
PROVINCE	<b>Mpumalanga</b>	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of impreported	oortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Dairy								3.0 (1)	
,	эре								
Western C		ocnital							
Western Ca George, Ge	eorge Animal H	ospitai							
Western Co George, Go Dairy: 3	eorge Animal Ho								^

A	2.0 (5)	2.0.(2)	1.0.(2)	1.0	2.0 (11)	2.5.(2)	
Average	3.0 (5)	2.0 (3)	1.0 (3)	(1)	2.0 (11)	2.5 (2)	
Level of imp	ortance scale: 1	= one case	e, 2 = more	than one case b	ut less than t	en and 3 =	more than 10 cases
•	2.0.(2)	0.5 (0)	1.0 (1)		2.0.(7)	2.0 (1)	
Beef	3.0 (3)	2.5 (2)	1.0 (1)	1.0	2.0 (7)	3.0 (1)	
Sheep			1.0 (1)	1.0 (1)	2.0 (1)		
Goat	3.0 (2)	1.0 (1)	1.0(1)		2.0 (3)	2.0 (1)	
Mpumalang	ga						
Middelburg	, Middelburg	Dierehosp	itaal				
Beef: 3, Goa	t: 3						
Nelspruit, I	<b>Nelspruit Anim</b>	al Hospita	l				
Beef: 3, Goa							
Nelspruit, \	Wildlife vets 1						
Beef: 3							
Tick populati	ions increasing ir	n rural cattle	е.				
Gauteng							
	spruit, Kerkstr	raat Dierel	kliniek				
Beef: 3							
	raal, Themba	Animal Cli	nic				
Goat: 1							
	nima Veterinar	y Consulti	ng Rooms				
Beef: 2							
Limpopo	Dietereburg \	/ataulaam.	Clinia				
	, Pietersburg V	reterinary	Clinic				
Free State	ep: 1, Goat: 1						
	on, Wesselsbro	n Diaraklii	niek				
Sheep: 1	ni, wesselsbio	ii Dielekiii	IIICK				
	a Meatmaster r	am that was	s hought fro	m Groblersdal			
Kwazulu-N		ann chac wa.	bought ire	iii Grobici saai.			
	ergville Veteri	inary Clinic	••••••••••••••••••••••••••••••••••••••				
Beef: 2	ergume recei		-				
Bergville, T	ugela Vet Clin	ic					
	ep: 2, Goat: 2						
	dumeni Herd l	health					
Beef: 2							
Mtubatuba	, Mtubatuba Aı	nimal Clini	С				
Beef: 3, Goa	t: 3						
	tzburg, Veterin	ary House	Hospital				
Beef: 2							
	on throughout V						
	ongola Animal	Clinic					
Beef: 1, Goa							
	yheid Privaat \	Veeartse					
Beef: 2							
Eastern Ca							
	r Jane Pistoriu	IS					
Goat: 2							

Humansdorp, Humansdorp Veterinary Clinic

Beef: 3									
Brown ea	r-ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)		3.0 (1)	2.0 (1)	1.5 (2)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	2.0 (1)		3.0 (1)	2.0 (1)	1.5 (2)			
Mpumalang Middelburg		Diorobass	itaal						
Beef: 1	, Middelburg I	vierenosp	ricadi						
Gauteng									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2									
North West		nactad Di	orokliniok						
Beef: 3	stad, Leeudori	iiystau Di	erekiiiilek						
Free State									
	shoek Dierepr	aktvk							
Beef: 2		,							
Kwazulu-Na	ital								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
	ugela Vet Clini	c							
Beef: 1									
Bont-legg	ged ticks								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (3)		3.0 (5)	2.7 (9)	2.0 (1)			2.4 (5)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)	1.0 (1)		3.0 (4)	2.5 (6)	2.0 (1)			
Dairy									2.0 (1)
Sheep		1.0(1)		3.0 (1)	3.0 (3)				2.7 (3)
Goat		1.0 (1)							2.0 (1)
Mpumalang									
	four Diereklin	iek							
Beef: 1									

	G	au	te	ng	
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Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 1, Goat: 1

**North West** 

Christiana, Christiana Dierehospitaal

Beef: 3

Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3, Sheep: 3

Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 3

Vryburg, Vryburg Dierehospitaal

Beef: 3

**Free State** 

**Bloemfontein, Dr Stephan Wessels** 

Beef: 3, Sheep: 3

Hoopstad, Hoopstad Dierekliniek

Beef: 3, Sheep: 3

**Kroonstad, Kroonstad Dierehospitaal** 

Beef: 3, Sheep: 3

Ladybrand, Ladybrand Dierekliniek

Beef: 3

**Memel, Memel Veterinary Clinic** 

Beef: 2

**Wesselsbron, Wesselsbron Dierekliniek** 

Beef: 1

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Northern Cape** 

Calvinia, Calvinia Veeartskliniek

Sheep: 3

De Aar, De Aar Veterinary Clinic

Sheep: 3

Postmasburg, Postmasburg Dierekliniek

Dairy: 2, Sheep: 2, Goat: 2

Red-legged ticks											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (5)			3.0 (1)	2.8 (8)	2.0 (1)		3.0 (2)	2.0 (1)		

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

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

Goat	1.0(1)									
Mpumalang	ja									
Balfour, Ba	lfour Diereklin	iek								
Beef: 1, Shee	ep: 1, Goat: 1									
Grootvlei, G	Grootvlei Diere	kliniek								
Sheep: 1										
Nelspruit, N	lelspruit Anima	al Hospita	l							
Beef: 1										
North West										
Christiana, Christiana Dierehospitaal										
Beef: 3										
Free State										
Hoopstad, Hoopstad Dierekliniek										
Beef: 3, Sheep: 3										
Kroonstad, Kroonstad Dierehospitaal										
Beef: 3, Dairy: 3, Sheep: 3										
	<b>Ladybrand Die</b>	erekliniek								
Beef: 3										
	mel Veterinary	Clinic								
Beef: 2										
	shoek Dierepr	aktyk								
Beef: 2										
Kwazulu-Na										
	Underberg Ve	terinary S	urgery							
Beef: 2										
Western Ca	_									
	gerberg Diereh	iospitaal l	Darling							
Dairy: 3			•							
	ırg, Tygerberg	moorees	burg							
Sheep: 3	al transport									
Ticks reporte										
Northern Ca	-									
	State Vet Kurur	man								
Sheep: 2	:	<b>c</b> :			_1.					
rick infestation	on in ears - 3 ca	ses of ear	nrection in	small sto	CK					
<b>Paralysis</b>	ticks								<u>^</u>	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	Average 2.5 (2) 1.5 (2) 3.0 (1)									
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Sheep					2.5 (2)	1.5 (2)	3.0 (1)			

Free State

Sheep: 3

Sheep: 2

Frankfort, Frankfort Dierekliniek

Vrede, Vrede Dierehospitaal

Two cases in	•								
Kwazulu-Na									
	dumeni Herd I	health							
Sheep: 1 Kokstad F (	3.Veterinary S	Services							
Sheep: 2	s.vetermary s	ei vices							
Eastern Cap	e								
-	Steynsburg [	Dierehospi	itaal						
Sheep: 3									
Biting lice	e (red lice)								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West			Eastern Cape	Western Cape	Northern Cape
Average				2.0 (1)	1.7 (3)	1.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				2.0 (1)	1.7 (3)	1.0 (1)			
North West		_	_						
	Klerksdorp Di	ierehospit	aal						
Beef: 2 Free State									
	ocolan Dierek	liniek							
Beef: 2									
	Kroonstad Die	rehospita	al						
Beef: 2									
<b>Wesselsbroi</b> Beef: 1	n, Wesselsbro	n Dierekli	niek						
веет: 1 <b>Kwazulu-Na</b>	ıtal								
	ıgela Vet Clini	ic							
Beef: 1									
Sucking I	ice (blue lic	e)							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.5 (2)		2.0 (1)		2.0 (2)
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
					1.5 (2)				2.0 (1)
Beef									
Goat							2.0 (1)		2.0 (1)
Goat Free State	ocolan Dierek						2.0 (1)		2.0 (1)

Eastern Cap	e e								
Graaff-Rein	et, Camdeboo	Veterinar	v Clinic						
Goat: 2	, <del>.</del>	. ctoi iiidi	,						
Northern Ca	ape								
	Curuman Diere	kliniek							
Beef: 2									
Postmasbui	rg, Postmasbu	rg Dierekl	liniek						
Goat: 2									
Scab mit	es								4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)					1.0 (1)		3.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep		2.0 (1)					1.0(1)		3.0 (1)
•		(1)					1.0 (1)		
Gauteng Bansfontoir	n, Bapsfontein	Diorobos	nitaal						
Sheep: 2	i, bapsiontein	Diel ellos	pitaai						
Eastern Cap	16								
-	,								
Cradock. Cr	adock Veterina	ary Clinic							
	adock Veterin	ary Clinic							
<b>Cradock, Cr</b> Sheep: 1 One positive		ary Clinic							
Sheep: 1	farm	ary Clinic							
Sheep: 1 One positive <b>Northern Ca</b>	farm								
Sheep: 1 One positive <b>Northern Ca</b>	farm a <b>pe</b>								
Sheep: 1 One positive <b>Northern Ca</b> Calvinia, Ca	farm ape Ilvinia Veearts								
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M	farm ape Ilvinia Veearts	kliniek	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M	farm ape Ilvinia Veearts ites Mpumalanga	kliniek	Limpopo		State			_	_
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE	farm ape Ilvinia Veearts ites Mpumalanga	Gauteng		West 2.5 (2)	2.0 (1)	Natal 2.0 (1)	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE Average	farm ape Ilvinia Veearts ites Mpumalanga	Gauteng		West 2.5 (2)	2.0 (1)	Natal 2.0 (1)	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE Average Level of imporeported	farm ape Ilvinia Veearts  ites  Mpumalanga  1.0 (1)  ortance scale: 1	Gauteng  1.5 (2)  = one case		2.5 (2) than one	2.0 (1) e case b	Natal 2.0 (1)	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE Average Level of imporeported Beef	farm ape Ilvinia Veearts  Ites  Mpumalanga  1.0 (1)  ortance scale: 1  1.0 (1)	Gauteng  1.5 (2)  = one case  2.0 (1)		2.5 (2) than one	2.0 (1) e case b	Natal  2.0 (1)  ut less than to	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE  Average  Level of imporeported  Beef Sheep Mpumalang Balfour, Bal	farm ape Ilvinia Veearts  Ites  Mpumalanga  1.0 (1)  ortance scale: 1  1.0 (1)	Gauteng  1.5 (2)  = one case  2.0 (1)  1.0 (1)		2.5 (2) than one	2.0 (1) e case b	Natal  2.0 (1)  ut less than to	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE  Average  Level of imporeported  Beef Sheep Mpumalang Balfour, Bal Beef: 1	farm ape Ilvinia Veearts  Ites  Mpumalanga  1.0 (1)  ortance scale: 1  1.0 (1)	Gauteng  1.5 (2)  = one case  2.0 (1)  1.0 (1)		2.5 (2) than one	2.0 (1) e case b	Natal  2.0 (1)  ut less than to	Cape	Cape	Cape
Sheep: 1 One positive Northern Ca Calvinia, Ca Sheep: 3 Mange M PROVINCE  Average  Level of imporeported  Beef Sheep Mpumalang Balfour, Bal	farm ape Ilvinia Veearts  Ites  Mpumalanga  1.0 (1)  ortance scale: 1  1.0 (1)	Gauteng  1.5 (2)  = one case  2.0 (1)  1.0 (1)		2.5 (2) than one	2.0 (1) e case b	Natal  2.0 (1)  ut less than to	Cape	Cape	Cape

			. • .						
	raal, Themba <i>l</i>	Animai Cili	nic						
Sheep: 1 North West									
	Christiana Die	robocnita	a l						
Beef: 3	Cili istialia Die	renospita	aı						
Sarcoptes mit	-oc								
	.೮೨ yburg Diereho	enitaal							
Beef: 2	young Dierenio	spitaai							
Free State									
	Greylingsrust	h Dieresnr	ookkamer						
Beef: 2	Greyningsrus	. Dielespi	cerranici						
Kwazulu-Na	ıtal								
	zburg, Veterin	arv House	Hospital						
Sheep: 2	Lburg, veterm	ury mouse	riospicar						
	al/rural farmers	' sheen							
		СПООР							
Nuisance	Flies								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)			3.0 (2)	2.7 (3)	2.7 (3)		2.3 (14)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on		ut less than t	en and 3 =	more than :	10 cases
Beef	2.0 (2)			3.0 (1)	3.0 (2)	2.5 (2)		2.0 (4)	
Dairy					2.0 (1)	3.0 (1)		3.0 (4)	
Sheep	2.0(1)			3.0(1)				2.2 (5)	
Goat	2.0 (1)							1.0(1)	
Mpumalang	` '							110 (1)	
	a four Diereklin	iok							
Beef: 2, Shee		ICK							
	elspruit Anim	al Hospita	ı						
Beef: 2	ciopi die Aiiiii	ai iioopita	•						
North West									
	, Ventersdorp	Diereklin	iek						
Beef: 3, Shee									
Free State									
Bloemfonte	in, Dr Stephar	Wessels							
Beef: 3									
Kroonstad, I Dairy: 2	Kroonstad Die	rehospita	al						
	shoek Dierepr	aktvk							
Beef: 3	Diciopi								
Kwazulu-Na	ıtal								
	ergville Veteri	nary Clinic	c						
Beef: 3		<b>,</b> S							
	dumeni Herd I	nealth							
Dairy: 3									

	Mtubatuba Aı	nimal Clin	ic						
Beef: 2									
Western Ca									
	gerberg Dierel	iospitaai i	Darling						
Dairy: 3	/14/6\ II ! I II								
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 3, She									
	y, Dr Otto Krie	K							
Dairy: 3					Ct II	a.			
	ould have been								
	ere sufficient co	ntroi measi	ires are lac	king. Oth	ier rarms	s seem to nav	e the fly sit	uation well	unaer
control.	. Cusanlılaaf	Diavaldini.							
	y, Groenkloof	Dierekiini	ек						
Beef: 3, Shee	•	Diauahaa							
	y, Malmesbury	Dierenos	pitaai						
	y: 3, Sheep: 3								
Oudtshoorn									
•	ep: 1, Goat: 1	Diamet-II	olr.						
	, Oudtshoorn	Dierekiini	eĸ						
Beef: 1, Shee	ep: 1								
Blowflies									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.3 (3)	1.0 (1)		2.3 (4)	
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	e than on		out less than t	en and 3 =	more than	10 cases
Beef					1.0 (1)	1.0 (1)		2.0 (1)	
Dairy								2.0(1)	
Sheep					3.0 (2)			2.5 (2)	
Free State									
Frankfort, F	rankfort Diere	ekliniek							
Sheep: 3									
•	loopstad Dier	ekliniek							
Sheep: 3	•								
•	shoek Dierepr	aktyk							
Beef: 1		<b>-</b>							
Kwazulu-Na	atal								
	zburg, Veterin	ary House	Hospital						
Beef: 1	J,	,							
Bull infected	wound								
Western Ca									
	gerberg Dierel	nospitaal I	Darling						
Dairy: 2	, =. = = : = : = : = :	- Jopitaui I							
•	(WC), Heidelb	era Diere	kliniek						
Sheep: 3	(170), Heidelb		CR						
	, Oudtshoorn	Diereblisi	۵k						
Juutoillolli	, Juuisiloofii	PICI CKIIIII	CV						

Beef: 2, Shee	ep: 2								
Screw-w									^
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 impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	2.0 (1)				1.0 (1)				
Mpumalang									
	lelspruit Anim	al Hospita							
Beef: 2 Free State									
	shoek Dierepr	aktyk							
Beef: 1	Silvek Dierepi	antyn							
Nasal bot	t larvae								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.3 (3)			2.3 (3)	1.0 (1)			2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Sheep		2.5 (2)			2.3 (3)	1.0 (1)			2.0 (1)
Goat		2.0(1)							
Sheep: 2 <b>Bronkhorsts</b> Sheep: 3, Go <b>Free State</b>	n, Bapsfontein spruit, Kerkstr at: 2 , Greylingsrust	aat Dierel	kliniek						
	loopstad Dier	ekliniek							
Vrede, Saul	shoek Dierepr	aktyk							
Sheep: 3	4-1								
Kwazulu-Na		un Vot Cii	nic						
Sheep: 1	n, Camperdov	vn vet Cli	IIC						
Northern Ca	ane								
	ipe Ivinia Veearts	kliniek							
Sheep: 2	Joodi G								
- ·P· <del>-</del>									

Midges									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)				1.5 (2)		2.0 (1)	2.1 (9)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.5 (2)							2.0 (2)	
Dairy	(_)							2.3 (3)	
Dun y					1.5			2.3 (3)	
Sheep					1.5 (2)		2.0 (1)	2.3 (3)	
Goat	2.0(1)							1.0(1)	
Mpumalang	a								
	four Diereklin	iek							
Beef: 1									
	lelspruit Anim	al Hospita	<u> </u>						
Beef: 2, Goat	:: 2								
Free State	D		<b></b>						
	Rowelsfonteir	i veearts :	<b>Spreekkan</b>	ner					
Sheep: 2	gepoort Dierel	diniak Va	nnootskar						
Sheep: 1	gepoort Dierei	Killilek ve	шооськар	,					
Eastern Cap	ne								
	et, Graaff Rei	net Veteri	narv Clinio	<u> </u>					
Sheep: 2	or, ordan mon		,	-					
Western Ca	pe								
	(WC), Heidelb	erg Diere	kliniek						
Dairy: 3, She									
Malmesbury	y, Dr Otto Krie	k							
Dairy: 1									
	y, Malmesbury	Dierehos	pitaal						
	y: 3, Sheep: 3								
Oudtshoorn	•								
Beef: 1, Shee	ep: 1, Goat: 1								
Mosquito	es								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				3.0 (1)	1.5 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
-				2.0 (1)					
Beef				3.0 (1)					

Sheep					1.5 (2)				
North West									
Vryburg, Vr	yburg Diereho	spitaal							
Beef: 3									
Free State									
	Rowelsfontein	veearts	Spreekkan	ner					
Sheep: 2									
Sheep: 1	gepoort Dierel	kliniek ve	nnootskap						
энеер. 1									
Other									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	3.0 (1)							
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)		ı						
Goat		3.0 (1)							
Gauteng Hammanski	s warbles: conta								
Goat: 3									
Itch mite									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							3.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep							3.0 (1)		
Eastern Cap	e								
	, Steynsburg D	ierehospi	itaal						
Sheep: 3									
Tick-bor	ne Disease	S							
African re	ed water								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

Average	2.0 (4)	2.0 (1)	1.3 (3)	1.8 (4)	1.9 (9)	2.0 (3)	2.5 (2)
reported	ortance scale: 1	= one case	e, 2 = more t	han one case bu	it less than t	en and 3 =	more than 10 cases
Beef	2.0 (4)	2.0 (1)	1.5 (2)	1.8 (4)	2.0 (8)	1.0 (1)	
Dairy			1.0(1)		1.0(1)	2.5 (2)	2.5 (2)
Mpumalang	a						
Middelburg	, Middelburg	Dierehosp	itaal				
Beef: 3							
Piet Retief, Beef: 2	Pets Vet Hosp	oital					
Standerton,	Econovet						
Beef: 2							
	ape Cross Vol	lksrust Die	rehosnitaal				
Beef: 1	pc 0.000 401		3.100pitaui				
Gauteng							
	raal, Themba	Animal Cli	nic				
Beef: 2	,		-				
Limpopo							
	louberg Diere	kliniek					
Beef: 2							
Eight cases							
	Pietersburg \	/eterinary	Clinic				
Beef: 1, Dairy							
Free State							
Frankfort, F	rankfort Dier	ekliniek					
Beef: 2							
Villiers, Wil	gepoort Diere	kliniek Ve	nnootskap				
Beef: 1							
Vrede, Saul	shoek Dierepr	aktyk					
Beef: 2							
Vrede, Vred	e Dierehospit	aal					
Beef: 2							
One farm							
Kwazulu-Na							
	ergville Veteri	inary Clini	С				
Beef: 2							
	ugela Vet Clin	IC					
Beef: 2	d	l					
	dumeni Herd	neaith					
Beef: 2, Dairy		Somilees					
Kokstad, E.C Beef: 2	G.Veterinary S	bervices					
	Mtubatuba A	nimal Clini	ic				
Mtubatuba, Beef: 2	muuatuba A	illiai Ciifi					
	Ncanduvet Ne	wczetlo					
Beef: 3	incalluuvet Ne	-wcasue					
	zburg, Veterin	ary House	Hoenital				
r ictei illai it	Lbury, Veterii	iai y i iouse	i i i o spitai				
Reef 2							
Beef: 2 Naive cattle h	rought down fr	om lowweld					

Beef: 1											
Eastern Cape  Alexandria Birogricus Trading Vet Capaulting Samisas											
Alexandria, Riverview Trading Vet Consulting Services											
Dairy: 2											
Humansdorp, Humansdorp Veterinary Clinic											
	Beef: 1										
Jeffreys Bay, Cape Cross Veterinary Hospital											
Dairy: 3											
Western Cape George, George Animal Hospital											
Dairy: 2											
Heidelberg (WC), Heidelberg Dierekliniek											
Dairy: 3											
Asiatic red water											
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	2.0 (2)	2.0 (2)	1.0 (2)	1.5 (2)	1.3 (3)	1.5 (4)	2.0 (1)	1.0 (2)			
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 reported									10 cases		
Beef	2.0 (2)	2.0 (2)	1.0(1)	2.0 (1)	1.3 (3)	1.7 (3)		1.0 (2)			
Dairy			1.0(1)	1.0(1)		1.0(1)	2.0 (1)				
<b>Mpumalang</b>	a										
	four Diereklin	iek									
Beef: 1											
	, Middelburg	Dierehosp	itaal								
Beef: 3											
Gauteng		+ D:I	-l::-l-								
Beef: 2	spruit, Kerkstr	aat Dierei	KIINIEK								
	rg, Magaliesbı	ıraı Dr Dv	an loffroy								
Beef: 2	ig, maganesbi	ilg, Di Ky	an Jeniey								
Limpopo											
	Pietersburg V	eterinary	Clinic								
Beef: 1, Dairy											
<b>North West</b>											
	Buffeldoorn D	ierehospi	taal								
Beef: 2											
	, Bergbos Die	ekliniek									
Dairy: 1											
Free State											
	rankfort Diere	kliniek									
Beef: 2	land Diaustra	nita-l									
Reitz, Riem Beef: 1	land Dierehos	pitaai									
	gepoort Dierel	kliniek Va	nnootekan								
Beef: 1	gepoort Diere	WILLIER AG	шоосэкар								
	atal										
	Kwazulu-Natal										

Danasilla D		Cli:	_							
	ergville Veteri	nary Ciini	С							
Beef: 1										
Bergville, Tugela Vet Clinic Beef: 2										
Dundee, Endumeni Herd health										
Beef: 2, Dairy: 1										
Eastern Cap										
	<b>Riverview Tra</b>	ding Vet	Consulting	J Service	25					
Dairy: 2										
Western Ca	ре									
George, Geo	orge Animal H	ospital								
Beef: 1										
Oudtshoorn	, Ostrimed									
Beef: 1										
Anaplasmosis									_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.3 (3)	1.0 (2)	1.0 (1)	2.7 (3)	2.2 (10)	2.0 (3)	1.4 (5)	1.8 (6)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	1.3 (3)	1.0(2)	1.0(1)	2.7 (3)	2.1 (8)	2.0 (2)	1.4 (5)	1.5 (2)		
Dairy					2.5 (2)	2.0 (1)		2.0 (4)		
Mpumalang	а									
	rootvlei Diere	kliniek								
Beef: 1										
Lvdenburg,	<b>Longtom Dier</b>	ekliniek								
Beef: 2										
Middelbura	, Middelburg I	Dierehosp	itaal							
Beef: 1	,									
Gauteng										
	raal, Themba A	Animal Cli	nic							
Beef: 1										
	ima Veterinar	y Consult	ing Rooms	3						
Beef: 1			<u> </u>							
Limpopo										
	Pietersburg V	eterinary	Clinic							
Beef: 1		,								
North West										
	Christiana Die	rehosnita	al							
Beef: 3		pw	-							
	stad, Leeudori	ngstad Di	erekliniek							
Beef: 2	Jua, Eccadiii	gotaa Di	C. C.K.IIIIGK							
	yburg Diereho	snitaal								
Beef: 3	, saig biereno	Spicuai								
Free State										
	in, Dr Stephan	Wessels								
Pideiilidiile	iii, bi Stepiiali	44 633613								

D 6 2									
Beef: 2	I <b>D</b> 'I								
	ocolan Dierek	liniek							
Beef: 1									
	rankfort Diere	ekliniek							
Beef: 3									
	loopstad Diere	ekliniek							
Beef: 3									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 3, Dairy	<b>/:</b> 3								
Memel, Mer	nel Veterinary	Clinic							
Beef: 1									
Reitz, Riem	land Dierehos	pitaal							
Beef: 2, Dairy									
	shoek Dierepr	aktyk							
Beef: 2									
Kwazulu-Na	ntal								
Beraville, B	ergville Veteri	narv Clinic	C						
Beef: 2	<b>-</b>	, , , , , , , , , , , , , , , , , , , ,							
	ugela Vet Clini	ic							
Beef: 2									
	tcourt Vet Clir	nic							
Dairy: 2	teoure recom								
Eastern Cap	10								
_	Alexandria Pla	2 backatte	nrookkam	or					
Beef: 1	Alexandria Fi	atteranti S	pieckkaiii	ICI					
	h, Hertzogbrug	n Dioroklir	niok						
Beef: 2	ii, Hertzogbrug	Diciekili	IICK						
	at Craeff Bair	ant Votorio	anne Clinie						
Beef: 1	et, Graaff Reir	iet veteiii	nary Cillic	•					
	m Oussmataur	n Votorina	m, alinia						
Beef: 2	n, Queenstowi	ii veteiilia	il y CilliiC						
	Hitaubaua Dia								
	Uitenhage Die	renospita	aı						
Beef: 1									
Western Ca									
	jerberg Diereh	iospitaal L	arling						
Dairy: 2									
	, Invitrotech								
Dairy: 3									
Ten cases									
	y, Malmesbury	Dierehos	pitaal						
Dairy: 2									
Oudtshoorn	, Oudtshoorn	Diereklini	ek						
Beef: 2									
Riversdale,	<b>Riversdal Dier</b>	ekliniek							
Dairy: 1									
Stellenbosc	h, Stellenbosc	h Animal I	Hospital						
Beef: 1									
Heartwat	er								^
PROVINCE	Mpumalanga	Gautena	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
				West	State	Natal	Cape	Cape	Cape
Average	1.7 (3)	1.5 (6)	2.5 (2)			1.8 (13)	1.2 (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	2.0 (2)	1.0(1)	2.5 (2)	1.9 (8)	1.0(2)
Sheep		1.3 (3)		1.0(1)	1.5 (2)
Goat	1.0(1)	2.0(2)		2.0 (4)	1.0(1)

Mpumalanga

Middelburg, Middelburg Dierehospitaal

Beef: 2

**Nelspruit, Nelspruit Animal Hospital** 

Beef: 2, Goat: 1
Gauteng

**Bronkhorstspruit, Kerkstraat Dierekliniek** 

Sheep: 1

Hammanskraal, Themba Animal Clinic

Beef: 1, Sheep: 1, Goat: 3

**Pretoria, Anima Veterinary Consulting Rooms** 

Sheen: 2

Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic

Goat: 1

Makhado, Blouberg Dierekliniek

Beef: 3 Ten cases

Mokopane, Dr Henk Visser

Beef: 2

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

Bergville, Tugela Vet Clinic

Beef: 2, Goat: 2

**Dundee, Endumeni Herd health** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Beef: 1

Mtubatuba, Mtubatuba Animal Clinic

Beef: 3, Goat: 3

**Newcastle, Ncanduvet Newcastle** 

Beef: 1

**Pietermaritzburg, Veterinary House Hospital** 

Beef: 2, Goat: 2

Pongola, Pongola Animal Clinic

Sheep: 1, Goat: 1

**Vryheid, Vryheid Privaat Veeartse** 

Beef: 2

**Eastern Cape** 

Cofimvaba, State Vet Cofimvaba

Sheep: 2, Goat: 1

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 1

Queenstown, Queenstown Provincial Vet Lab

Sheep: 1

Uitenhage, Uitenhage Dierehospitaal

Beef: 1

Sweating Sickness										
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)			1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases	
Beef		2.0 (1)		2.0 (2)	1.0 (1)			1.0 (1)	1.0 (1)	
Gauteng										
	, Bapsfontein	Dierehosi	nitaal							
Beef: 2	, baporonicem	Dici cilos,	Jicaai							
North West										
Christiana, Christiana Dierehospitaal										
Beef: 1										
Leeudoringstad, Leeudoringstad Dierekliniek										
Beef: 3 Free State										
	ocolan Dierek	liniak								
Beef: 1	ocolan biereki	шиек								
Western Ca	_	l. A								
	h, Stellenbosc	n Anımai	Hospital							
Beef: 1										
Northern Ca	•									
	u Dierekliniek									
Beef: 1										
Theilerio	sis								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average				1.0 (1)						
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases	
Dairy				1.0(1)						
North West				(1)						
	, Bergbos Dier	akliniak								
Dairy: 1	, Deiguos Diei	CKIIIICK								
	ransmittab	le Dise	ases							
Lumpy sk	kin disease								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	

Average	3.0 (1)				2.0	1.7 (3)		2.0 (2)	
					(1)	(-)		_; (_)	
Level of imp	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
reported			•						
	2.0 (1)				2.0	1.7.(2)		2.0 (1)	
Beef	3.0 (1)				(1)	1.7 (3)		2.0 (1)	
Dairy								2.0 (1)	
Mpumalang	ıa								
	Vildlife vets 1								
Beef: 3									
Lumpy skin d	lisease outbreak	s in rural ca	attle adjace	nt to the	Kruger I	National park	- vaccination	ons taking p	lace
Free State									
	shoek Dierepr	aktyk							
Beef: 2									
Kwazulu-Natal									
Bergville, Tugela Vet Clinic									
Beef: 2									
	dumeni Herd l	nealth							
Beef: 2									
	Ncanduvet Ne	wcastle							
Beef: 1									
Western Ca	•	<b>D</b> '							
	y, Malmesbury	Dierenos	pitaai						
Beef: 2, Dair	y: Z								
Three-da	y-stiffsickn	ess							<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)					1.0 (3)		2.0 (1)	
Level of impreported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)					1.0 (3)		2.0 (1)	
Mpumalang	_								
	ıa								
		al Hospita	I						
Nelspruit, N	ja lelspruit Anim	al Hospita	I						
	lelspruit Anim	al Hospita	ı						
Nelspruit, N Beef: 1 Kwazulu-Na	lelspruit Anim		I						
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle,	lelspruit Anima atal		l						
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle, Beef: 1 Pietermarit	lelspruit Anima atal	wcastle							
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle, Beef: 1 Pietermarit Beef: 1	lelspruit Anima etal Ncanduvet Ne zburg, Veterin	wcastle							
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle, Beef: 1 Pietermarit Beef: 1 Suspect case	lelspruit Animatal Ncanduvet Ne zburg, Veterin - unconfirmed	wcastle ary House							
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle, Beef: 1 Pietermarit Beef: 1 Suspect case Pongola, Po	lelspruit Anima etal Ncanduvet Ne zburg, Veterin	wcastle ary House							
Nelspruit, N Beef: 1 Kwazulu-Na Newcastle, Beef: 1 Pietermarit Beef: 1 Suspect case	lelspruit Animatal Ncanduvet Ne zburg, Veterin - unconfirmed	wcastle ary House							

Western Cape Plettenberg Bay, Plettenberg Bay A Reitz

Beef: 2

Three young beef cattle

Blue tongue									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)					2.0 (1)	1.6 (5)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef								1.5 (2)	
Sheep		3.0 (1)					2.0(1)	1.7 (3)	
Sheep: 3  Eastern Cap Graaff-Rein Sheep: 2  Western Ca Caledon, Ov Sheep: 2  Oudtshoorn Beef: 2, Shee Riversdale, Sheep: 1	et, Graaff Reir pe verberg Veterir , Oudtshoorn	net Veteri nary Hosp Diereklini rekliniek	nary Clinic ital ek						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef						2.0(1)			
Beef: 2	Mtubatuba Ar	nimal Clin	ic						
PROVINCE				North	Free	Kwazulu-	Eastern	Western	Northern
	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape

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

Beef	1.5 (6)	2.0 (1)	3.0 (3)	2.1 (13)	2.3 (4)	1.5 (2)	2.0 (1)
Dairy						2.0 (1)	

### Mpumalanga

### **Balfour, Balfour Dierekliniek**

Beef: 1

One farm: 2 positive out of 15 bulls tested

## **Bethal, Bethal Dierekliniek**

Beef: 1

### Middelburg, Middelburg Dierehospitaal

Beef: 1

### Piet Retief, Pets Vet Hospital

Beef: 2

### **Standerton, Econovet**

Beef: 2

# **Volksrust, Cape Cross Volksrust Dierehospitaal**

Beef: 2 **Limpopo** 

## **Modimolle, Kranskop Dierekliniek**

Beef: 2 Five cases

## North West

## Klerksdorp, Klerksdorp Dierehospitaal

Beef: 3

# Stella, Stella Dierekliniek

Beef: 3 Odd farm

## Vryburg, Vryburg Dierehospitaal

Beef: 3
Free State

# **Bloemfontein, Dr Stephan Wessels**

Beef: 2

Two new farms - Wepener

## Clocolan, Clocolan Dierekliniek

Beef: 2

### **Dewetsdorp, Platkop Dierekliniek**

Beef: 1

## Frankfort, Frankfort Dierekliniek

Beef: 3

# Hertzogville, Hertzogville Dierekliniek

Beef: 2

## Hoopstad, Hoopstad Dierekliniek

Beef: 3

# Kroonstad, Kroonstad Dierehospitaal

Beef: 2

# Ladybrand, Ladybrand Dierekliniek

Beef: 2

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

Beef: 2

### Reitz, Riemland Dierehospitaal

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 1

Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 3

Vrede, Saulshoek Dierepraktyk

Beef: 2

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Dundee, Endumeni Herd health** 

Beef: 3

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

Beef: 3

**Newcastle, Ncanduvet Newcastle** 

Beef: 1

**Eastern Cape** 

**Alexandria, Riverview Trading Vet Consulting Services** 

Dairy: 2

Aliwal North, Hertzogbrug Dierekliniek

Beef: 2

Queenstown, Queenstown Veterinary clinic

Beef: 1

**Northern Cape** 

Kuruman, Kuruman Dierekliniek

Beef: 2

Vibriosis									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		2.0 (2)	2.0 (2)	1.9 (9)	1.5 (2)	2.0 (1)	1.5 (2)	

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

Beef	1.0 (1)	2.0 (2)	2.0 (2)	1.9 (9)	1.0 (1)	2.0 (1)	2.0 (1)	
Dairy					2.0 (1)		1.0(1)	

## Mpumalanga

**Volksrust, Cape Cross Volksrust Dierehospitaal** 

Beef: 1 **Limpopo** 

Makhado, Blouberg Dierekliniek

Beef: 2 Three cases

**Modimolle, Kranskop Dierekliniek** 

Beef: 2 Two cases **North West** 

Stella, Stella Dierekliniek

Beef: 2

Vryburg, Vryburg Dierehospitaal

Beef: 2									
Free State	in Du Chamban	. Waaaala							
Beef: 2	in, Dr Stephan	wessels							
	ocolan Dierek	liniak							
Beef: 2	ocoian Dierek	шек							
	o, Platkop Dier	akliniak							
Beef: 3	у, Ріаскор Бісі	CKIIIICK							
	rankfort Diere	kliniek							
Beef: 2	Tallkiore Diere	ARITICA							
	e, Hertzogville	Diereklin	iek						
Beef: 2	,								
Hoopstad, F	loopstad Diere	ekliniek							
Beef: 1	•								
Ladybrand,	Ladybrand Die	erekliniek							
Beef: 2									
Reitz, Riem	land Dierehos	pitaal							
Beef: 2									
	on, Viljoenskro	on Diere	kliniek						
Beef: 1									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 1		_							
	tcourt Vet Clir	nic							
Dairy: 2									
Eastern Cap		. Vatarina							
Beef: 2	n, Queenstowi	ı veterina	iry clinic						
Western Ca	y, Dr Otto Krie	b							
Dairy: 1	y, Di Otto Kile	N							
	d in a beef herd.	Fortunatel	v owner asl	ked to do	n a sheat	hwash amon	ast other te	ets	
	y, Malmesbury		•	ica to ac	o a sincar	inwasir amony	got other to	.50.	
Beef: 2	y, i iaimessar y	Dicionos	picaai						
Pizzle dis	ease								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average									2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep									2.0 (1)
Northern Ca	аре								
	Karoo Veterina	ry Hospit	al						
Sheep: 2									
Pizzle disease	in Merino rams								
Bacteria	l Disease (	other)							
Blackqua	rter								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	1.0 (1)		2.2 (5)	1.7 (6)	1.4 (5)	1.2 (5)		1.7 (3)
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.8 (4)	1.0 (1)		2.3 (4)	1.7 (6)	1.5 (4)	1.0 (2)		1.5 (2)
Dairy				2.0(1)			1.5 (2)		
Sheep						1.0(1)	1.0(1)		2.0(1)
Mpumalanga	a								
Balfour, Balf	four Diereklin	iek							
Beef: 2									
	rootvlei Diere	kliniek							
Beef: 1									
	, Middelburg I	Dierehosp	itaal						
Beef: 2	ape Cross Vol	kernet Di-	roboo=!t-	nl nl					
Beef: 2	ape Cross voi	KSTUST DIE	erenospita	aı					
Gauteng									
_	, Bapsfontein	Dierehosi	nitaal						
Beef: 1	, buporonicem	Dici cilos	picaai						
North West									
Christiana, C	Christiana Die	rehospita	al						
Beef: 3									
	, Dr CM Kruge	er-Rall							
Beef: 2									
Five cases									
	, Bergbos Dier	rekliniek							
Dairy: 2	Vantanadann	Dianaldin							
Beef: 2	, Ventersdorp	Dierekiin	пек						
	yburg Diereho	snitaal							
Beef: 2	, 9 51010110	- picaui							
Free State									
Bloemfontei	in, Dr Stephan	Wessels							
Beef: 1									
	loopstad Diere	ekliniek							
Beef: 2									
	Kroonstad Die	rehospita	al						
Beef: 2	Francisco Contra	rrei al a Cor							
Smithfield, F Beef: 2	Freestate Smi	untield SV							
	, 3 animals died	1							
	gepoort Dierel		nnootskan	)					
Beef: 2	,-		vw.						
	shoek Dierepr	aktyk							
Beef: 1		-							
Kwazulu-Na	tal								

Estcourt, Estcourt Vet Clinic Beef: 1 Newcastle, Ncanduvet Newcastle Beef: 1 Pietermaritzburg, Veterinary House Hospital Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average  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									
Beef: 1 Newcastle, Ncanduvet Newcastle Beef: 1 Pietermaritzburg, Veterinary House Hospital Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridum novyi in wagyu calf Dairy: 1 Dairy: 1 Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Northern Cape Olosbarg, Postmasburg Dierekliniek Beef: 2 Lingly Northern Cape Dotulism  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Lipington, Upington Veeartsenykliniek		tcourt Vet Clir	nic							
Newcastle, Ncanduvet Newcastle Beef: 1 Pietermaritzburg, Veterinary House Hospital Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West Free Kwazulu- Eastern Cape Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek Beef: 2 Upington, Upington Veeartsenykliniek		COUIT VEL CIII								
Beef: 1 Pietermaritzburg, Veterinary House Hospital Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridum novyi in wagyu calf Dainy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek Beef: 2 Upington, Upington Veeartsenykliniek	· · ·	Neanduyet No	wczetlo							
Pietermaritzburg, Veterinary House Hospital Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Constridum novyi in wagyu calf Dairy: 1 Deffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles Botulism  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu- Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		incanduvet ine	wcastie							
Sheep: 1 Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridum novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Western Cape Cape Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef	· · ·	zbura Votorin	ant House	Hoonital						
Confirmed case Vryheid, Vryheid Privaat Veeartse Beef: 2  Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyi in wagyu calf Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North Free Wazulu- Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		zburg, veterin	ary nouse	поѕрісаі						
Vryheid, Vryheid Privaat Veeartse Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyl in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu Cape Cape Average  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek Sheep: 2 Diege State S										
Beef: 2 Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Wazulu- Cape Cape Average  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 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek			/oonuteo							
Eastern Cape Alexandria, Riverview Trading Vet Consulting Services Beef: 1 Clostridium novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Average  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 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		yneid Privaat v	reeartse							
Reef: 1  Clostridium novyi in wagyu calf  Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital  Dairy: 2  Queenstown, Queenstown Veterinary clinic  Sheep: 1  Northern Cape  Colesberg, Karoo Veterinary Hospital  Beef: 1  Vington, Upington Veeartsenykliniek  Sheep: 2  Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo West State Natal  Limpopo										
Beef: 1 Clostridium novyi in wagyu calf Dairy: 1 Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu—Cape Cape Cape Average  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 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek			d: \/a+ /	Camacultina	Comile					
Clostridium novyi in wagyu calf Dairy: 1 Deffreys Bay, Cape Cross Veterinary Hospital Dairy: 2 Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles Botulism  PROVINCE Mpumalanga Gauteng Limpopo North Free Kwazulu-Cape Cape Cape Average  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington Veeartsenykliniek Dairy: 2 Upington Veeartsenykliniek Sheep: 2 Soiled needles Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		Riverview ira	aing vet	Consulting	Service	25				
Dairy: 1  Jeffreys Bay, Cape Cross Veterinary Hospital  Dairy: 2  Queenstown, Queenstown Provincial Vet Lab  Beef: 1  Queenstown, Queenstown Veterinary clinic  Sheep: 1  Northern Cape  Colesberg, Karoo Veterinary Hospital  Beef: 2  A few blackquarter cases in weaners  Kimberley, Kimberley Dierekliniek  Beef: 1  Upington, Upington Veeartsenykliniek  Sheep: 2  Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Northe Cape  Average  1.5 (  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Beef: 1  Limpopo North West State Natal State	· · ·		~1£							
Jeffreys Bay, Cape Cross Veterinary Hospital Dairy: 2  Queenstown, Queenstown Provincial Vet Lab Beeef: 1  Queenstown, Queenstown Veterinary clinic Sheep: 1  Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2  A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beeef: 1  Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Natal Cape Cape Average  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 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek		<i>ovyi</i> in wagyu ca	dll							
Dairy: 2  Queenstown, Queenstown Provincial Vet Lab Beef: 1  Queenstown, Queenstown Veterinary clinic Sheep: 1  Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2  A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1  Upington, Upington Veeartsenykliniek Sheep: 2  Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Cape Cape Cape  Average  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek State Natal Cape Cape Cape Cape Cape Cape Cape Cape		· Cama Cuasa \	/ataulman	. Usanital						
Queenstown, Queenstown Provincial Vet Lab Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Ratel Cape Cape Average  1.5 (  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 (  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		, Cape Cross \	veterinary	Hospitai						
Beef: 1 Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average  1.5 (  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 (  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		n Ougansta	n Dravinsi	al Vat Lab						
Queenstown, Queenstown Veterinary clinic Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape Average  1.5 (  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 (  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		ıı, Queenstowi	ıı Provinci	ai vet Lab						
Sheep: 1 Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu-Cape Cape Cape  Average  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	· · ·	n Ouganata	n Votenin-	mı alinin						
Northern Cape Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average  1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	_	n, Queenstowi	n veterina	iry clinic						
Colesberg, Karoo Veterinary Hospital Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek										
Beef: 2 A few blackquarter cases in weaners Kimberley, Kimberley Dierekliniek Beef: 1 Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo West Free Kwazulu- Cape Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Norther Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		•		_ •						
A few blackquarter cases in weaners  Kimberley, Kimberley Dierekliniek Beef: 1  Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North Free West State Kwazulu- Cape Cape Cape  Average  1.5 (  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 (  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek		Karoo Veterina	ary Hospit	aı						
Kimberley, Kimberley Dierekliniek Beef: 1  Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Natal Eastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek										
Beef: 1  Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek										
Upington, Upington Veeartsenykliniek Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West Free State Natal Eastern Cape Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		Kimberiey Die	rekiiniek							
Sheep: 2 Soiled needles  Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape North Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek				• - • -						
Botulism  PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape  Postmasburg, Postmasburg Dierekliniek  Beef: 2  Upington, Upington Veeartsenykliniek		pington veeai	rtsenyklin	іек						
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape  Average  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek										
PROVINCE Mpumalanga Gauteng Limpopo North West Free State Kwazulu- Cape Northe Cape  1.5 (Cape State Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2  Upington, Upington Veeartsenykliniek	Solled needle	S								
Average  Limpopo West State Natal Cape Cape  Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	Botulism									^
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported  Beef  Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape
Reef 1.5 ( Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	Average									1.5 (2)
Beef Northern Cape Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek		ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Postmasburg, Postmasburg Dierekliniek Beef: 2 Upington, Upington Veeartsenykliniek	-									1.5 (2)
Beef: 2 Upington, Upington Veeartsenykliniek	Northern Ca	ре								
Beef: 2 Upington, Upington Veeartsenykliniek	Postmasbui	g, Postmasbu	rg Dierek	iniek						
Upington, Upington Veeartsenykliniek										
		pington Veear	rtsenyklin	iek						
Pulpy Kidney		lney								^
PROVINCE Mpumalanga Gauteng Limpopo North West State Kwazulu- Eastern Cape Cape Cape	PROVINCE	Mpumalanga	Gauteng	Limpopo						Northern Cape

				2.2			
Average	1.0(2)	2.0 (1)	2.0(1)	(9)	1.0(2)	1.7 (3)	1.8 (4)
				())			
evel of imp	ortance scale: 1	= one case,	2 = more than one	case bu	it less than t	en and 3 =	more than 1
eported							
				2.2			
Sheep	1.0 (2)	2.0 (1)	2.0 (1)	(9)	1.0(2)	3.0 (1)	1.8 (4)
Goat				(2)		1.0 (2)	
	-					1.0 (2)	
Mpumalang Balfour Bal	<sub>l</sub> a Ifour Diereklin	iok					
Sheep: 1	iloui Dielekiili	IICK					
	Longtom Dier	ekliniek					
Sheep: 1							
Gauteng							
Bronkhorst	spruit, Kerkstı	raat Dierekl	iniek				
Sheep: 2							
North West							
	Dierekliniek						
Sheep: 2							
Free State	locolan Dierek						
Sheep: 2	locolan Dierek	шпіек					
	rankfort Diere	akliniak					
Sheep: 3	Talikioit Diere	ekiiiiek					
	e, Hertzogville	Diereklinie	k				
Sheep: 2	.,		-				
•	Hoopstad Dier	ekliniek					
Sheep: 3	<u> </u>						
Reitz, Riem	land Dierehos	pitaal					
Sheep: 2							
	on, Viljoenskr	oon Dierekli	iniek				
Sheep: 1							
•	gepoort Diere	kliniek Venr	nootskap				
Sheep: 2	la Diarchaerit	221					
<b>vreae, vrea</b> Sheep: 3	le Dierehospit	ddl					
	k, 20 sheep died	l					
	n, Wesselsbro		ek				
Sheep: 2	,						
Kwazulu-Na	atal						
Estcourt, Es	stcourt Vet Cli	nic					
Sheep: 1							
	Ncanduvet Ne	ewcastle					
Sheep: 1							
Eastern Cap			-11				
	et, Camdeboo	Veterinary	Clinic				
Goat: 1	n Ougensterr	n Dunibal-I	Vot Lab				
Queenstow Goat: 1	n, Queenstow	n Provincial	vet Lab				
	, Steynsburg [	)iorohoenita	al				
Sheep: 3	, steynsburg t	o en en ospita	ıuı				
Western Ca	pe						
	erberg Veteri	nary Hospit	al				
J, U		,					

Sheep: 2									
	, Groenkloof	Diaraklini	alr						
Sheep: 2	, Groenkiooi i	Dierekiini	ek						
	ections in young	Lambo							
Oudtshoorn,		i iaiiibs							
Sheep: 1	, Ostrilleu								
	iketberg Dier	ehosnitaa	I						
Sheep: 2	including Dier	Ciiospicaa	•						
Lamb dys	entry								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)			2.0 (1)			3.0 (1)		1.0 (1)
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (1)			2.0(1)					
Sheep					_		3.0 (1)		
Goat								_	1.0(1)
Mpumalanga	a								
	ape Cross Vol	ksrust Die	erehospita	al					
Beef: 2	- <b>-</b>								
North West									
Vryburg, Vry	burg Diereho	spitaal							
Beef: 2									
Eastern Cap	е								
Charmalare									
	Steynsburg D	Dierehospi	itaal						
Sheep: 3		Dierehospi	itaal						
Sheep: 3 Northern Ca	pe								
Sheep: 3 Northern Ca Postmasburg									
Sheep: 3 Northern Ca Postmasbur Goat: 1	pe	rg Dierekl							^
Sheep: 3 Northern Ca Postmasbur Goat: 1	pe g, Postmasbu	rg Dierekl		1111					<u>^</u>
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h	pe g, Postmasbu	rg Dierekl	liniek	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h	pe g, Postmasbu lead diseas	rg Dierekl	liniek						
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h PROVINCE Average	pe g, Postmasbu lead diseas	rg Dierekle  Gauteng  2.0 (2)	liniek Limpopo	West	State	Natal 1.0 (3)	Cape	2.0 (3)	3.0 (1)
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h PROVINCE Average Level of imporeported	pe g, Postmasbu nead diseas Mpumalanga	rg Dierekle  Gauteng  2.0 (2)	liniek Limpopo	West	State	Natal 1.0 (3)	Cape	2.0 (3)	3.0 (1)
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h PROVINCE Average Level of imporeported Beef	pe g, Postmasbu nead diseas Mpumalanga	rg Dierekle  Gauteng  2.0 (2)  = one case	liniek Limpopo	West	State	1.0 (3) ut less than to	Cape	2.0 (3)	3.0 (1)
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h PROVINCE Average Level of imporeported Beef Sheep	pe g, Postmasbu nead diseas Mpumalanga	rg Dierekle Gauteng 2.0 (2) = one case 3.0 (1)	liniek Limpopo	West	State	1.0 (3) ut less than to	Cape	Cape  2.0 (3)  more than	3.0 (1) 10 cases
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h PROVINCE Average Level of imporeported Beef Sheep Gauteng Bronkhorsts	pe g, Postmasbu nead diseas Mpumalanga	rg Dierekle  Gauteng  2.0 (2)  = one case  3.0 (1)  1.0 (1)	Limpopo e, 2 = more	West	State	1.0 (3) ut less than to	Cape	Cape  2.0 (3)  more than	3.0 (1) 10 cases
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h  PROVINCE  Average  Level of imporeported  Beef Sheep  Gauteng Bronkhorsts Beef: 3	pe g, Postmasbu nead diseas Mpumalanga ortance scale: 1	rg Dierekle  Gauteng  2.0 (2)  = one case  3.0 (1)  1.0 (1)	Limpopo e, 2 = more	West	State	1.0 (3) ut less than to	Cape	Cape  2.0 (3)  more than	3.0 (1) 10 cases
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h  PROVINCE  Average  Level of imporeported  Beef Sheep Gauteng Bronkhorsts Beef: 3 Hammanskr	pe g, Postmasbu nead diseas Mpumalanga ortance scale: 1	rg Dierekle  Gauteng  2.0 (2)  = one case  3.0 (1)  1.0 (1)	Limpopo e, 2 = more	West	State	1.0 (3) ut less than to	Cape	Cape  2.0 (3)  more than	3.0 (1) 10 cases
Sheep: 3 Northern Ca Postmasburg Goat: 1 Swelled h  PROVINCE  Average  Level of imporeported  Beef Sheep  Gauteng Bronkhorsts Beef: 3 Hammanskr Sheep: 1 Kwazulu-Na	pe g, Postmasbu nead diseas Mpumalanga ortance scale: 1	rg Dierekle  Gauteng  2.0 (2)  = one case  3.0 (1)  1.0 (1)  raat Dierek	Limpopo e, 2 = more kliniek nic	West	State	1.0 (3) ut less than to	Cape	Cape  2.0 (3)  more than	3.0 (1) 10 cases

D ( 1									
Beef: 1	N d t N								
	Ncanduvet Ne	wcastie							
Beef: 1									
	heid Privaat \	/eeartse							
Beef: 1									
Western Ca									
	ledon Dierekli	iniek							
Sheep: 1									
	erberg Veteri	nary Hosp	ital						
Sheep: 3									
	s Veterinary H	ospital							
Sheep: 2									
Present on 2	farms								
Northern Ca									
Kimberley,	Kimberley Die	rekliniek							
Sheep: 3									
Redgut (	cattle)								
DROVINCE	Maumalanga	Coutons	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
Average				2.0(1)	1.5 (2)		1.5 (2)	1.0 (1)	
Average				2.0 (1)	(2)		1.5 (2)	1.0 (1)	
Level of impo	ortance scale: 1	= one case	e. 2 = more	than on	e case h	ut less than to	en and 3 =	more than	10 cases
reported	ortanice scale. 1	- one case	., Z – morc	ciaii oii	c case b	at iess than t	cii dila 5 –	more triair.	10 cases
Геропсец									
Beef				2.0(1)	1.5		1.0(1)		
DECI				2.0 (1)	(2)		1.0 (1)		
Dairy							2.0 (1)	1.0(1)	
							2.0 (1)	1.0 (1)	
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 2									
Free State									
Frankfort, F	rankfort Diere	ekliniek							
Beef: 2									
Vrede, Saul	shoek Dierepr	aktyk							
Beef: 1									
Eastern Cap	e								
Jeffreys Bay	, Cape Cross \	Veterinary	/ Hospital						
Dairy: 2									
Uitenhage,	Uitenhage Die	rehospita	al						
Beef: 1									
<b>Western Ca</b>	ре								
Darling, Tyg	jerberg Dierel	nospitaal [	Darling						
Dairy: 1									
Blood gut	t (Sheep)								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern	Western	Northern
				west	State	ivatal	Cape	Cape	Cape

Average	3.0 (1)			1.0 (1)	2.0 (1)			2.2 (5)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	3.0 (1)			1.0 (1)	2.0 (1)			2.2 (5)	2.0 (1)
Mpumalang									
	, Middelburg I	Jierenosp	ıtaaı						
Sheep: 3 North West									
	Christiana Dia	rohoonito							
	Christiana Die	renospita	dl						
Sheep: 1 Free State									
	ocolan Dierek	liniek							
Sheep: 2	ocoiaii Dielek	mick							
Western Ca	ne								
	erberg Veterii	nary Hosn	ital						
Sheep: 2	J. DOI & FORGIN	.а. у 1103р							
	erberg Diereh	ospitaal [	Darling						
Sheep: 2	, c g c	oopitaa	- uy						
	(WC), Heidelb	era Dierel	kliniek						
Sheep: 2	(110), 11010012								
	rg, Tygerberg	mooreesl	burg						
Sheep: 3	3, 73								
	<b>Wellington Di</b>	erehospit	aal						
Sheep: 2		-							
Clostridial inte	estinal infections	and death	ıs						
Northern Ca	pe								
Kuruman, K	uruman Diere	kliniek							
Sheep: 2									
Tetanus									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.0 (1)			1.0 (2)		1.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef								1.0(1)	
Sheep		1.0 (1)			1.0 (2)		1.0 (1)		
<b>Gauteng</b> <b>Bapsfontein</b> Sheep: 1	, Bapsfontein	Dierehos	pitaal						
Free State									
	loopstad Diere	ekliniek							

Reitz. Riem	land Dierehos	nitaal							
Sheep: 1	iunu Biciciios	picaai							
Eastern Cap									
	h, Hertzogbrug	g Diereklii	niek						
Sheep: 1 Western Ca	ne								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Salmonel	losis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (2)				2.0 (1)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (2)				2.0 (1)				
Free State Bloemfonte Beef: 2  Brucella	in, Dr Stephar abortus	) Wessels							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		2.0 (1)	2.0 (4)	2.3 (8)	1.5 (2)	1.0 (1)		3.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0 (1)		2.0 (1)	2.0 (4)	2.3 (8)	1.0 (1)			3.0 (2)
Sheep						2.0 (1)			
Goat							1.0(1)		
Mpumalang									
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 1 Limpopo									
	louberg Diere	kliniek							
Beef: 2									
Three cases									
North West									

Christiana, Christiana Dierehospitaal
Beef: 1
Klerksdorp, Klerksdorp Dierehospitaal
Beef: 1
Lichtenburg, Dr CM Kruger-Rall
Beef: 3
168 Cattle
Stella, Stella Dierekliniek
Beef: 3
New farm
Free State
Bloemfontein, Dr Stephan Wessels
Beef: 3
One farm, 36 out of 83 positive
Hoopstad, Hoopstad Dierekliniek
Beef: 3
Kroonstad, Kroonstad Dierehospitaal
Beef: 2
Ladybrand, Ladybrand Dierekliniek
Beef: 3
Smithfield, Freestate Smithfield SV
Beef: 1
Villiers, Wilgepoort Dierekliniek Vennootskap
Beef: 3
Vrede, Saulshoek Dierepraktyk
Beef: 2
Wesselsbron, Wesselsbron Dierekliniek
Beef: 1
Kwazulu-Natal
Dundee, Endumeni Herd health
Beef: 1
Kokstad, E.G.Veterinary Services
Sheep: 2
Eastern Cape
Graaff-Reinet, Camdeboo Veterinary Clinic
Goat: 1
Brucella melitensis in goats
Northern Cape
Kimberley, Kimberley Dierekliniek
Beef: 3
Three farms, 2 new farms, one retested
Kuruman, State Vet Kuruman
Beef: 3
18 positive cases on one new farm tsted

Brucella ovis											
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 (1)			

eported									
heep	1.0 (1)				2.0 (3)			2.0 (1)	
1pumalang									
	Cape Cross Vol	ksrust Die	erehospita	al					
heep: 1									
	rankfort Diere	kliniak							
heep: 2	Talikioit Diele	KIIIIEK							
•	gepoort Dierel	kliniek Ve	nnootskan	<u> </u>					
heep: 3	gepoort Dierei	KIIIIICK VCI	шоосэкар						
•	n, Wesselsbro	n Dierekli	niek						
heep: 1	.,								
Vestern Ca	ре								
eaufort W	est, Beaufort \	<b>West State</b>	e Vet						
heep: 2									
lohne`s	disease								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average								1.7 (3)	
Average Level of imposeported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	<u> </u>	10 cases
evel of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	<u> </u>	10 cases
evel of imported		= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
evel of imposeported  heep  Vestern Ca				than on	e case b	ut less than t	en and 3 =	more than	10 cases
evel of imposeported  heep  Vestern Ca	pe			than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore eported  heep  Vestern Ca  caledon, Over	pe	nary Hosp	ital	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore ported  Theep  Vestern Ca  Taledon, Over theep: 2  Icidelberg  Theep: 1	pe verberg Veteri (WC), Heidelb	nary Hosp erg Dierel	ital kliniek	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported  Western Ca Caledon, Overheep: 2  Wedledelberg  heep: 1  Moorreesbu	pe verberg Veteri	nary Hosp erg Dierel	ital kliniek	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore ported  Theep  Vestern Ca  Taledon, Over theep: 2  Icidelberg  Theep: 1	pe verberg Veteri (WC), Heidelb	nary Hosp erg Dierel	ital kliniek	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported  Western Ca Caledon, Overheep: 2  Wedledelberg  heep: 1  Moorreesbu	pe verberg Veteri (WC), Heidelb ırg, Tygerberg	nary Hosp erg Dierel	ital kliniek	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Level of imporeported  Cheep  Vestern Ca Caledon, Over Cheep: 2  Caledolberg Cheep: 1  Coorreesbucheep: 2  Leptospin	pe verberg Veteri (WC), Heidelb ırg, Tygerberg	nary Hosp erg Dierel mooreesl	ital kliniek burg	North West	e case b	Kwazulu-	en and 3 =  Eastern Cape	more than	
Level of imporeported  Cheep  Vestern Ca Caledon, Over Cheep: 2  Caledolberg Cheep: 1  Coorreesbucheep: 2  Leptospin	pe verberg Veterion (WC), Heidelb org, Tygerberg	nary Hosp erg Dierel mooreesl	ital kliniek burg	North	Free	Kwazulu-	Eastern	more than  1.7 (3)  Western	Northern
evel of imperented  heep  Vestern Ca aledon, Over the control of t	pe verberg Veterion (WC), Heidelb org, Tygerberg	nary Hosp erg Dierel mooreesl Gauteng	ital kliniek burg Limpopo	North	Free	Kwazulu- Natal	Eastern Cape	western Cape	Northern Cape
evel of imperented  heep  Vestern Ca aledon, Over the control of t	pe verberg Veteri (WC), Heidelb urg, Tygerberg rosis Mpumalanga	nary Hosp erg Dierel mooreesl Gauteng	ital kliniek burg Limpopo	North	Free	Kwazulu- Natal	Eastern Cape	western Cape	Northern Cape
evel of imposeported  heep  /estern Ca aledon, Over the composition of	pe verberg Veterin (WC), Heidelb urg, Tygerberg rosis Mpumalanga	nary Hosp erg Dierel mooreesl Gauteng	ital kliniek burg Limpopo	North	Free	Kwazulu- Natal	Eastern Cape	western Cape 1.0 (1) more than	Northern Cape
evel of imporence of important of imporence	pe verberg Veterin (WC), Heidelb urg, Tygerberg rosis Mpumalanga	nary Hosp erg Dierel mooreesl Gauteng = one case	hital kliniek burg Limpopo e, 2 = more	North	Free	Kwazulu- Natal	Eastern Cape	western Cape 1.0 (1) more than	Northern Cape

Septicaer	mia								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (1)							
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)	1.0(1)							
Mpumalang									
	Pets Vet Hosp	ital							
Beef: 1  Gauteng									
	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	n.		
Beef: 1			oop.ca. a.				-		
Peritonitis									
E. coli									4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.7 (3)		2.5 (6)	2.4 (8)	1.5 (2)	1.0 (1)	1.7 (3)	2.0 (3)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (2)	1.0(1)		2.3 (4)	2.2 (5)	1.0 (1)	1.0 (1)		
Dairy		2.0 (1)			(0)			1.5 (2)	
Sheep	1.0 (1)			3.0 (2)	2.7 (3)	2.0 (1)		2.0 (1)	2.0 (2)
Goat		2.0(1)							2.0(1)
Mpumalang	а								
	four Diereklin	iek							
Beef: 2									
	nal Diereklinie	k							
Sheep: 1	Ecomorast								
<b>Standerton,</b> Beef: 2	conovet								
Gauteng									
	raal, Themba A	Animal Cli	nic						
Beef: 1, Dairy									
North West									
	Klerksdorp Di	erehospit	aal						
Beef: 3, Shee									
Leeudorings	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									

Charan 2									
Sheep: 3	D 614 1/	- D-II							
	, Dr CM Kruge	er-Kall							
Beef: 1									
Beef: 2	yburg Diereho	Spitaai							
Free State	: D.: Ctb								
	in, Dr Stephan	wessels							
Sheep: 3	a a a la ua Dia ua lu	122-1-							
	ocolan Dierek	liniek							
Beef: 2, Shee	•	.   .   ! ! .   .							
	loopstad Diere	ekiiniek							
Beef: 3, Shee		Diawa	lelimi ale						
Beef: 3	on, Viljoenskro	on Diere	Kiiniek						
	namaant Diaval	dinial: Va							
Beef: 2	gepoort Dierel	kliniek ve	ппоосѕкар	)					
	shoek Dierepr	a letter le							
Beef: 1	silvek Dielepi	акцук							
Kwazulu-Na	tal								
	ıcaı ergville Veteri	nanı Clini							
Beef: 1	ergville veteri	nary Cilli	C						
	zburg, Veterin	ary House	Hoenital						
Sheep: 2	zburg, veteriii	ary mouse	riospitai						
Eastern Cap	<b>1</b>								
	h, Hertzogbrug	ı Dierekli	niek						
Beef: 1	ii, rici tzogbi uş	, DICICKIII	IICK						
Western Ca	ne								
	est, Beaufort \	Nest State	e Vet						
Sheep: 2	cot, beautore i	TOSC State							
	amb deaths 4-8	weeks old	with neurol	ogical sv	mptoms				
	erberg Veteri			- 5 ,					
Dairy: 2	<u> </u>	,,							
•	jerberg Diereh	nospitaal I	Darling						
Dairy: 1	,								
Northern Ca	аре								
Postmasbui	g, Postmasbu	rg Dierek	liniek						
Sheep: 2, Go									
	pington Veea	rtsenyklin	iek						
Sheep: 2									
	Aboution								^
Enzootic	ADOPTION								
				North	Eroo	Vwazulu	Engtown	Wootown	Northorn
<b>PROVINCE</b>	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
				West	State	Nacai	Cupc	Cupc	Cupc
					1.5				
Average					1.5		1.0 (1)		2.0 (3)
Average					1.5 (2)		1.0 (1)		2.0 (3)
					(2)				, , ,
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	(2)	ut less than t		more than :	, , ,
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	(2)	ut less than t	en and 3 =	more than :	, , ,
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	(2)	ut less than to		more than :	, , , , , , , , , , , , , , , , , , ,
Level of imporeported  Beef	ortance scale: 1	= one case	e, 2 = more	than on	(2)	ut less than to	en and 3 =	more than :	10 cases
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	(2) e case b	ut less than to	en and 3 =	more than :	, , , , , , , , , , , , , , , , , , ,

Goat									2.0 (2)
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Sheep: 1									
	Kroonstad Die	rehospita	al						
Sheep: 2									
astern Cap			-137-41-6						
<b>zueenstow</b> Beef: 1	n, Queenstow	n Provinci	ai vet Lab						
Northern Ca	ne .								
	lvinia Veearts	kliniek							
Goat: 2									
Postmasbur	g, Postmasbu	rg Dierek	liniek						
Sheep: 2, Go	at: 2								
Dermato	philosis (Lu	mpy Wo	ol)						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)	1.0(1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep						1.0(1)	1.0(1)		
Sheep: 1 Eastern Cap	dumeni Herd I e et, Camdeboo		ry Clinic						
	ine Gangre			North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Саре
Average						1.0(1)			2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep						1.0 (1)			2.0 (1)
Goat									2.0 (1)
<b>(wazulu-Na Pietermarit</b> Sheep: 1 <b>Northern Ca</b>	zburg, Veterin	ary House	e Hospital						
	uruman Diere	kliniek							
Sheep: 2									
	g, Postmasbu	ra Dierek	liniek						
	3,	. 9							
Goat: 2									

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average		1.0 (1)							
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)							
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
Fusibacte	erium necro	phorum							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average								1.7 (3)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef								1.5 (2)	
Dairy								2.0 (1)	
Beef: 2, Dairy	h, Stellenbosc		-						
				North	Free	Kwazulu-	Eastern	Western	Norther
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
PROVINCE Average	Mpumalanga	Gauteng	Limpopo	West		2.0 (1)	Cape	3.0 (1)	
Average	Mpumalanga ortance scale: 1				State	2.0 (1)		3.0 (1)	Cape
<b>Average</b> Level of impo					State	2.0 (1)		3.0 (1)	Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average			1.0 (1)					1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef			1.0(1)					1.0(1)	
Limpopo Mokopane, Beef: 1	Dr Henk Visse	r							
Western Ca Ceres, Ceres Beef: 1	pe s Veterinary H	ospital							
Lumpy jaw									
Protozoa	al diseases	(other)							
Besnoitio	sis								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0(1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef				1.0(1)					
North West	stad, Leeudori	nastad Di	erekliniek						
Beef: 1	·	ngotaa Di	CI CIXIIII CIX						
One Charolai									
Coccidios	SIS								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.5 (2)		2.0 (1)	2.0 (6)	1.7 (3)	1.3 (3)	1.5 (2)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		2.0 (1)		2.0 (1)	2.5 (2)	1.7 (3)			
Dairy							2.0 (1)	1.0(1)	
					1.7				

Goat	2.0 (1)	1.0 (1)		2.0 (1)		1.0 (2)	2.0 (2)
Mpumalang							
-	Nelspruit Anim	al Hospita					
Goat: 2							
Gauteng							
	jelegen Dierek	liniek					
Beef: 2							
Calves							
	nderstepoort A	Academic H	lospital and Prod	uction Ani	mal Clinic		
Goat: 1							
North West							
Ventersdor	p, Ventersdorp	Diereklin	iek				
Beef: 2							
Free State							
	Frankfort Diere	ekliniek					
Beef: 3							
	Kroonstad Die	erehospita	al				
Goat: 2							
	land Dierehos	pitaal					
Sheep: 2							
	gepoort Diere	kliniek Vei	nootskap				
Beef: 2, She							
	n, Wesselsbro	n Diereklii	niek				
Sheep: 1							
Kwazulu-N	atal						
Bergville, B	Bergville Veteri	nary Clinic	3				
Beef: 2							
	stcourt Vet Cli	nic					
Beef: 1							
	zburg, Veterin	ary House	Hospital				
Beef: 2							
Calves - Grey							
Eastern Ca							
Bathurst, D	r Jane Pistoriu	IS					
Goat: 1							
<b>Graaff-Reir</b>	net, Camdeboo	Veterinar	y Clinic				
Goat: 1							
•	Witelsbos Vete	erinary Co	nsulting Rooms				
Dairy: 2							
Western Ca							
Heidelberg	(WC), Heidelb	erg Dierel	liniek				
Dairy: 1							
Malmesbur	y, Malmesbury	/ Dierehos	pitaal				
Sheep: 2							
Northern C	аре						
Kuruman, I	Kuruman Diere	kliniek					
Goat: 2							
Postmasbu	rg, Postmasbu	rg Dierekl	iniek				
Goat: 2							
Cryptosp	ooridium						^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)			3.0 (1)	2.0 (4)	2.5 (8)	3.0 (1)	2.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	2.3 (3)				2.0 (2)	2.5 (4)			
Dairy						3.0 (2)	3.0 (1)	2.0(2)	
Sheep	1.0 (1)				2.0 (2)	2.0 (2)			
Goat				3.0(1)					
Mpumalang	a								
Balfour, Bal	four Diereklin	iek							
Beef: 1, Shee									
	Longtom Dier	ekliniek							
Beef: 3									
	erger calves died								
	, Middelburg I	Dierehosp	itaal						
Beef: 3									
North West	share Dieseke	:							
Goat: 3	yburg Diereho	Spitaai							
Free State									
	ocolan Dierek	liniek							
Beef: 2, Shee		IIIICK							
	loopstad Diere	ekliniek							
Sheep: 2									
-	gepoort Dierel	kliniek Ve	nnootskar	)					
Beef: 2	-								
Kwazulu-Na	tal								
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2									
	dumeni Herd l	nealth							
Beef: 3, Dairy									
	tcourt Vet Clir	nic							
Beef: 3, Dairy		ami He	. Ua su'ts t						
Pietermaritz Beef: 2	zburg, Veterin	ary House	nospital						
	but on same fa	rm ac conf	irmed in ch	oon floor					
Sheep: 2	but on same la	iiiii as cuill	iiiiieu iii Sii	eeh HOCK	•				
	ted - not confirr	ned this se	ason, but fo	ollowing	same pat	ttern on same	e farms as I	ast season v	which was
Eastern Cap	е								
	, Cape Cross \	Veterinary	/ Hospital						
Dairy: 3									
Western Ca									
	erberg Diereh	nospitaal l	Darling						
Dairy: 2									
Heidelberg (	(WC), Heidelb	erg Diere	kliniek						

Dairy: 2									
Fungal d	liseases								
Ringworr	n								<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.8 (4)	2.0 (1)	2.0 (1)	2.3 (3)	1.9 (7)	1.5 (2)	1.5 (2)	1.0 (1)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.8 (4)		2.0 (1)	2.3 (3)	1.9 (7)	1.5 (2)	1.5 (2)		
Dairy								1.0(1)	
Sheep		2.0(1)						110 (1)	2.0 (1)
Mpumalang	а	2.0 (1)							2.0 (1)
	a four Diereklin	iek							
Beef: 1									
Grootvlei, G	rootvlei Diere	kliniek							
Beef: 2									
Nelspruit, N	lelspruit Anima	al Hospita	ı						
Beef: 2									
	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Gauteng	ima Veterinar	v Concult	ina Booma						
Sheep: 2	iiiia veteiiiiai	y Consuit	ing Rooms						
Limpopo									
	louberg Diere	kliniek							
Beef: 2									
Six cases									
<b>North West</b>									
	Christiana Die	rehospita	al						
Beef: 3									
Leeudorings Beef: 1	stad, Leeudori	ngstad Di	erekliniek						
	yburg Diereho	cnitaal							
Beef: 3	yburg biereno	Spicaai							
Free State									
	Greylingsrust	t Dierespr	eekkamer						
Beef: 1		•							
	Oosvrystaat Di	ere Produ	ıkte						
Beef: 2									
	e, Hertzogville	Diereklin	iek						
Beef: 3	looneted Die	aldinia!-							
Beef: 1	loopstad Diere	ekiiniek							
	Kroonstad Die	rehosnita	al						
Beef: 2	Jonesia Die	spica	<b>~</b> 1						
	land Dierehos	pitaal							

Beef: 2									
	on, Viljoenskr	oon Diere	kliniek						
Beef: 2	on, vinjoenom	Jon Biere							
Kwazulu-Na	ntal								
	dumeni Herd I	nealth							
Beef: 2									
Estcourt, Es	tcourt Vet Cli	nic							
Beef: 1									
Eastern Cap	e								
<b>Aliwal North</b>	h, Hertzogbrug	g Diereklii	niek						
Beef: 1									
	n, Queenstow	n Veterina	ry clinic						
Beef: 2									
Western Ca									
	h, Stellenbosc	h Animal	Hospital						
Dairy: 1									
Northern Ca	_								
•	uruman Diere	kliniek							
Sheep: 2									
BMC	eases (oth	er <i>)</i>							^
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu-	Eastern Cape	Western Cape	Northern Cape
				West	State	racai	Сирс	Cupc	Сирс
Average		1.0 (1)	2.0 (3)	1.3 (3)	1.0 (1)			1.0 (1)	1.0 (1)
Level of impo	ortance scale: 1				` ′	ut less than t	en and 3 =		, , ,
reported	ortance scale: 1		e, 2 = more	than one	e case b	ut less than to	en and 3 =		` ′
Level of imporeported  Beef  Gauteng		= one case	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng  Bronkhorsts	ortance scale: 1	= one case	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1		= one case	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo	spruit, Kerkstr	= one case  1.0 (1)  raat Diere	e, 2 = more 2.0 (3)	than one	e case b	ut less than to	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B		= one case  1.0 (1)  raat Diere	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2	spruit, Kerkstr	= one case  1.0 (1)  raat Diere	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2 Two cases	spruit, Kerkstr louberg Diere	= one case  1.0 (1)  Taat Dierel	e, 2 = more 2.0 (3)	than one	e case b	ut less than t	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2 Two cases Mokopane,	spruit, Kerkstr	= one case  1.0 (1)  Taat Dierel	e, 2 = more 2.0 (3)	than one	e case b	ut less than to	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2 Two cases Mokopane, B Beef: 3	spruit, Kerkstr louberg Diere Dr Henk Visse	= one case  1.0 (1)  Taat Dierel  kliniek	e, 2 = more  2.0 (3)  kliniek	than one	e case b	ut less than to	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2 Two cases Mokopane, Beef: 3 Vaalwater,	spruit, Kerkstr louberg Diere	= one case  1.0 (1)  Taat Dierel  kliniek	e, 2 = more  2.0 (3)  kliniek	than one	e case b	ut less than to	en and 3 =	more than I	10 cases
Level of impore reported  Beef  Gauteng Bronkhorsts Beef: 1 Limpopo Makhado, B Beef: 2 Two cases Mokopane, B Beef: 3	spruit, Kerkstr louberg Diere Dr Henk Visse Vaalwater Die	= one case  1.0 (1)  Taat Dierel  kliniek	e, 2 = more  2.0 (3)  kliniek	than one	e case b	ut less than to	en and 3 =	more than I	10 cases

Klerksdorp, Klerksdorp Dierehospitaal

Stella, Stella Dierekliniek

**Vryburg, Vryburg Dierehospitaal** 

Kroonstad, Kroonstad Dierehospitaal

Beef: 1

Beef: 1

Beef: 2
Free State

D6. 1									
Beef: 1									
Western Ca									
	est, Beaufort \	West State	e Vet						
Beef: 1									
Wildebeest fe	w kilometers av	vay.							
Northern Ca	ре								
<b>Upington, U</b> Beef: 1	pington Veear	tsenyklin	iek						
Rabies									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average				1.0 (1)	3.0 (1)		1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef				1.0 (1)	3.0 (1)				
Goat							1.0(1)		
North West									
Leeudorinas	stad, Leeudori	nastad Di	erekliniek						
Beef: 1	<b>,</b>								
One cow - hu	man contact								
Free State									
	loopstad Diere	ekliniek							
	_								
Eastern Cap									
	State Vet Cofi	mvaba							
Goat: 1									
BVD (Bov	ine viral dia	arrhoea	)						
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)				1.0(1)		1.0 (1)	1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef		3.0 (1)				1.0(1)		1.0(1)	1.0(1)
Gauteng									
<b>Hammansk</b> ı Beef: 3	raal, Themba A	Animal Cli	nic						
Beer: 3 <b>Kwazulu-Na</b>	utal .								
<b>Dundee, En</b> Beef: 1	dumeni Herd h	ieaith							
	no								
Western Ca									
Stellenbosc	- C+-III								

Northern Ca	Mucosal disease	2							
	rg, Postmasbu	rg Dierek	liniek						
IBR (Infe	ectious bovi	ne rhind	tracheit	is)					^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					3.0 (1)	1.0 (1)			1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					3.0 (1)	1.0(1)			1.0(1)
Free State									
	on, Viljoenskro	oon Diere	kliniek						
	atal ugela Vet Clini	c							
Beef: 1									
Northern Ca	_								
	rg, Postmasbu	rg Dierek	liniek						
Beef: 1									
Enzootic	Bovine Leu	cosis (El	BL)						^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
PROVINCE  Average	Mpumalanga	Gauteng	1.0 (1)					Cape	_
Average	Mpumalanga  ortance scale: 1		1.0 (1)	West	2.0 (1)	Natal	1.0 (1)	2.0 (1)	Cape
Average  Level of impo			1.0 (1)	West	2.0 (1)	Natal	1.0 (1)	2.0 (1)	Cape
Average  Level of imporeported			1.0 (1)	West	2.0 (1)	Natal	1.0 (1) en and 3 =	2.0 (1)	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo		= one case	1.0 (1) e, 2 = more	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of impore reported  Beef  Dairy  Limpopo Makhado, B  Dairy: 1	ortance scale: 1	= one case	1.0 (1) e, 2 = more	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of impore reported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State	ortance scale: 1	= one case	1.0 (1) e, 2 = more 1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,	ortance scale: 1	= one case	1.0 (1) e, 2 = more 1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,  Dairy: 2	ortance scale: 1  louberg Diere  Kroonstad Die	= one case	1.0 (1) e, 2 = more 1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,  Dairy: 2  Eastern Cap	ortance scale: 1	= one case	1.0 (1) e, 2 = more  1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,  Dairy: 2  Eastern Cap  Humansdor	ortance scale: 1  louberg Diere  Kroonstad Die	= one case	1.0 (1) e, 2 = more  1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,  Dairy: 2  Eastern Cap	ortance scale: 1  louberg Diere  Kroonstad Die  p, Humansdor	= one case	1.0 (1) e, 2 = more  1.0 (1)	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of imporeported  Beef  Dairy  Limpopo  Makhado, B  Dairy: 1  Free State  Kroonstad,  Dairy: 2  Eastern Cap  Humansdor  Beef: 1  Western Ca  Malmesbury	ortance scale: 1  louberg Diere  Kroonstad Die  p, Humansdor	= one case kliniek rehospita	1.0 (1) e, 2 = more  1.0 (1)  al	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape
Average  Level of impore reported  Beef  Dairy  Limpopo Makhado, Boairy: 1 Free State Kroonstad, Dairy: 2 Eastern Caphumansdor Beef: 1 Western Ca	louberg Diere Kroonstad Die e p, Humansdor	= one case kliniek rehospita	1.0 (1) e, 2 = more  1.0 (1)  al	West	2.0 (1) e case b	Natal	1.0 (1) en and 3 =	Cape  2.0 (1)  more than	Cape

Orf									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)		2.0 (1)	1.9 (7)	1.5 (2)	1.3 (3)	2.0 (5)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	out less than t	en and 3 =	more than 1	l0 cases
Sheep		1.0 (1)		2.0 (1)	1.9 (7)	1.0 (1)	1.5 (2)	2.3 (4)	
Goat	2.0(1)					2.0(1)	1.0(1)	1.0(1)	2.0(2)
Mpumalang	a								
	Cape Cross Vol	ksrust Die	erehospita	al					
Goat: 2									
Gauteng									
Pretoria, An	ima Veterinar	y Consult	ing Rooms	5					
Sheep: 1									
North West									
	Christiana Die	rehospita	al						
Sheep: 2									
Free State									
	ocolan Dierek	liniek							
Sheep: 2									
	Kroonstad Die	rehospita	al						
Sheep: 3									
	Ladybrand Die	erekliniek							
Sheep: 3									
	land Dierehos	pitaal							
Sheep: 1	\/*!!	<b>D'</b>							
	on, Viljoenskro	oon Diere	KIINIEK						
Sheep: 1	gonoort Dioss	diniek Ve	nnootoko						
Sheep: 2	gepoort Dierel	kiiiilek ve	шоосѕкар	,					
	n, Wesselsbro	n Dierakli	niek						
Sheep: 1	ii, **E33EI3DIU	ıı Dielekli	IIICK						
Kwazulu-Na	ital								
	dumeni Herd h	nealth							
Sheep: 1									
•	tcourt Vet Clir	nic							
Goat: 2									
Eastern Cap	e								
	h, Hertzogbrug	g Dierekli	niek						
Sheep: 1									
	State Vet Cofi	mvaba							
Sheep: 2									
<b>Graaff-Rein</b>	et, Camdeboo	Veterina	ry Clinic						
Goat: 1									

Western Cape

Sheep: 2

Caledon, Caledon Dierekliniek

	jerberg Dierel	nospitaal I	Darling						
Sheep: 1									
	orge Animal H	ospital							
Sheep: 3									
	Piketberg Dier	ehospitaa	<u> </u>						
Sheep: 3									
	h, Stellenbosc	h Animal	Hospital						
Goat: 1									
Northern Ca									
	uruman Diere	kliniek							
Goat: 2									
	g, Postmasbu	rg Dierek	iniek						
Goat: 2									
Warts									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (3)	2.3 (3)		1.7 (3)	2.5 (4)	1.5 (4)		1.7 (3)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
Beef	1.0 (2)	2.5 (2)		1.5 (2)	2.3 (3)	1.5 (4)		1.5 (2)	
Dairy				2.0(1)				2.0 (1)	
Sheep	1.0 (1)				3.0 (1)				
Goat		2.0 (1)							2.0(1)
Mpumalang	а								
	four Diereklin	iek							
Beef: 1									
Nelspruit, N	lelspruit Anim	al Hospita	ı						
Beef: 1									
Standerton,	Econovet								
Sheep: 1									
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Beef: 2									
	raal, Themba <i>l</i>	Anımal Cli	nic						
Beef: 3, Goat									
North West									
Brits, Brits I	Dierekliniek								
Dairy: 2 Christiana	Christiana Die	rahoenita	al						
Beef: 2	Cili istialia Die	renospita	Q1						
	stad, Leeudori	nastad Di	erekliniek						
Beef: 1	July Lecuudii	ngstau Di	CICKIIIICK						
Calves									
Free State									
	in, Dr Stephan	Wessels							
	, Jeepilai								

Beef: 3									
Hertzogville	e, Hertzogville	Diereklin	iek						
Sheep: 3									
Hoopstad, F	Hoopstad Diere	ekliniek							
Beef: 2									
Kroonstad,	Kroonstad Die	rehospita	al						
Beef: 2									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 2									
Dundee, En	dumeni Herd l	nealth							
Beef: 1									
Newcastle,	<b>Ncanduvet Ne</b>	wcastle							
Beef: 1									
<b>Pietermarit</b>	zburg, Veterin	ary House	<b>Hospital</b>						
Beef: 2									
<b>Western Ca</b>	pe								
Caledon, Ca	ledon Dierekli	iniek							
Dairy: 2									
Darling, Tyg	gerberg Diereh	ospitaal I	Darling						
Beef: 2									
Worcester,	<b>Durban Straat</b>	Diereklin	iek Worce	ster					
Beef: 1									
<b>Northern Ca</b>	аре								
Postmasbui	rg, Postmasbu	rg Dierek	liniek						
Goat: 2									
Rota viru	IS								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0 (1)		1.5 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef						1.0(1)			
						1.0 (1)		1.7.(0)	
Dairy								1.5 (2)	
Kwazulu-Na	atal								
Bergville, Bonder Beef: 1	ergville Veteri	nary Clini	С						
Western Ca	ре								
Darling, Tyg	jerberg Dierel	ospitaal I	Darling						
Dairy: 2									
Calves									
Heidelberg	(WC), Heidelb	erg Diere	kliniek						
Dairy: 1									
Corona V	irus								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

1.0(1)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported **Beef** 1.0(1)Kwazulu-Natal Bergville, Bergville Veterinary Clinic Beef: 1 Other viral disease not listed North Free Kwazulu- Eastern Western Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape 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 2.0(1)3.0(1)Sheep Gauteng Bapsfontein, Bapsfontein Dierehospitaal Sheep: 2 **Western Cape Wellington, Wellington Dierehospitaal** Unknown viral infections in 2 herds. At the laboratory no known sheep viruses were isolated. On histo-pathology it was found that the unknown viral infection was similar to Rift Valley Fever. Poisonings (Plant) and Fungal Cardiac glycoside poisoning North Kwazulu-Western Free **Eastern** Northern **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 3.0 1.0 (1) 2.0 (1) 1.5 (2) **Average** (1) Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 1.0 (1) 2.0 (1) **Beef** Sheep 1.5(2)Limpopo Mokopane, Dr Henk Visser Beef: 1 **North West** Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State** 

Vrede, Saulshoek Dierepraktyk

Tulin naicaris	100000								
Fulip poisonir <b>Western Ca</b> j									
	est, Beaufort \	Nest State	e Vet						
Sheep: 2	•								
Drought									
	, Oudtshoorn	Diereklini	ek						
Sheep: 1									
Cestrum									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average					2.0 (4)		1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.7 (3)		1.0 (1)		
Sheep					3.0 (1)				
Beef: 3, Shee									
Wesselsbro	n, wesselsbro	n Dierekii	піек						
Beef: 1		n Dierekii	піек						
Beef: 1 <b>Eastern Cap</b>	e								
Beef: 1 <b>Eastern Cap</b> Humansdor									
Beef: 1 <b>Eastern Cap Humansdor</b> Beef: 1	e	p Veterin							
Beef: 1  Eastern Cap Humansdor Beef: 1  Cynancho	e p, Humansdor	p Veterin	ary Clinic	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 1  Eastern Cap Humansdor Beef: 1  Cynancho	e p, Humansdor um poisonin	p Veterin	ary Clinic						Northern Cape
Beef: 1 Eastern Cap Humansdor Beef: 1  Cynanche PROVINCE  Average	e p, Humansdor um poisonin	p Veterina g Gauteng	ary Clinic	West	State	Natal	Cape	<b>Cape</b> 1.0 (2)	Cape
Beef: 1  Eastern Cap Humansdorn Beef: 1  Cynanche PROVINCE  Average  Level of impo	e p, Humansdor um poisonin Mpumalanga	p Veterina g Gauteng	ary Clinic	West	State	Natal	Cape	<b>Cape</b> 1.0 (2)	Cape
Beef: 1  Eastern Cap Humansdor Beef: 1  Cynanche PROVINCE  Average  Level of imporeported	e p, Humansdor um poisonin Mpumalanga	p Veterina g Gauteng	ary Clinic	West	State	Natal	Cape	1.0 (2) more than	Cape
Beef: 1 Eastern Cap Humansdor Beef: 1  Cynanche PROVINCE  Average  Level of imporeported  Dairy Sheep	pe p, Humansdor  um poisonin  Mpumalanga  ortance scale: 1	p Veterina g Gauteng	ary Clinic	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape
Beef: 1 Eastern Cap Humansdor Beef: 1  Cynanche PROVINCE  Average  Level of imporeported  Dairy Sheep Western Cap	pe p, Humansdor  um poisonin  Mpumalanga  ortance scale: 1	g Gauteng = one case	ary Clinic	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape
Beef: 1 Eastern Cap Humansdor Beef: 1 Cynanche PROVINCE Average Level of imporeported Dairy Sheep Western Cap	pe p, Humansdor  um poisonin  Mpumalanga  ortance scale: 1	g Gauteng = one case	ary Clinic	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape
Beef: 1 Eastern Cap Humansdor Beef: 1  Cynanche PROVINCE  Average  Level of imporeported  Dairy Sheep Western Cap Riversdale,	pe p, Humansdor  um poisonin  Mpumalanga  ortance scale: 1  pe Riversdal Dierep: 1	g Gauteng = one case	ary Clinic	West	State	Natal	Cape	1.0 (2) more than 1.0 (1)	Cape

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								3.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep								3.0 (1)	
Western Ca									
<b>Caledon, Ov</b> Sheep: 3	erberg Veterii	nary Hosp	ital						
Gifblaar									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0(1)	2.0 (3)							
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.0(1)	2.0 (2)							
Goat		2.0 (1)							
Beef: 3, Goat	spruit, Kerkstr : 2 ima Veterinar			i					
Lantana									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)			2.0 (1)		1.3 (4)	1.0 (1)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.0(1)			2.0(1)		1.3 (4)	1.0(1)		
Beef: 1 North West	elspruit Anima	al Hospita	ı						
	ergville Veteri	nary Clini	С						

	Ncanduvet Ne	wcastle							
Beef: 1 <b>Pietermarit</b> :	zburg, Veterin	arv House	e Hospital						
Beef: 1									
<b>Vryheid, Vry</b> Beef: 2	/heid Privaat \	/eeartse							
Eastern Cap	e								
	p, Humansdor	p Veterin	ary Clinic						
Beef: 1									
Nitrate p	oisoning								^
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 imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef									2.0 (1)
Dairy								2.0 (1)	
Beef: 2	uruman Diere								
Prussic a	cid poisonir	ıg							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average								1.0 (1)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep								1.0(1)	
Western Ca	pe								
	jerberg Diereh	ospitaal I	Darling						
Dvo grace	s poisoning								^
Kye gras:									
	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
	Mpumalanga	Gauteng	Limpopo						
PROVINCE  Average  Level of impo	Mpumalanga ortance scale: 1			West	State	Natal 1.0 (1)	Cape	<b>Cape</b> 2.0 (1)	Саре
PROVINCE Average				West	State	Natal 1.0 (1)	Cape	<b>Cape</b> 2.0 (1)	Саре

Sheep								2.0 (1)	
(wazulu-Na	atal								
stcourt, Es	tcourt Vet Cli	nic							
Dairy: 1									
Vestern Ca									
	erberg Veteri	nary Hosp	ital						
Sheep: 2									
Senecios	is								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(2)	2.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.0(1)			
Sheep						1.0 (1)	2.0 (1)		
						1.0 (1)	2.0 (1)		
(wazulu-Na			•						
	n, Camperdov	vn Vet Cli	nic						
heep: 1									
ri <b>etermarit</b> Beef: 1	zburg, Veterin	ary House	Hospitai						
veaner calf									
iastern Cap	<u> </u>								
-	n, Queenstow	n Drovinci	al Vet I ah						
Sheep: 2	ii, Queelistow	ii r i oviiici	ai vet Lab						
Tulip Pois	soning								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	2.0 (1)		1.0 (1)	1.8 (6)	2.3 (3)	1.0 (2)	2.0 (1)	
	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Level of impore reported	ortance scale: 1 2.0 (1)	= one case 2.0 (1)	e, 2 = more	than one	2.0	ut less than to	en and 3 =	more than :	10 cases
reported			e, 2 = more		2.0				10 cases
reported  Seef  Sheep  Apumalang  Jolksrust, C	2.0 (1)	2.0 (1)		1.0 (1)	2.0 (5) 1.0				10 cases
Reported  Sheef  Sheep  Mpumalang  /olksrust, C	2.0 (1)	2.0 (1)		1.0 (1)	2.0 (5) 1.0				10 cases
Reported  Sheef  Apumalang  Olksrust, Coleef: 2  Gauteng	2.0 (1) a Cape Cross Vol	2.0 (1)	erehospita	1.0 (1)	2.0 (5) 1.0				10 cases
seef Sheep Apumalang Olksrust, Coef: 2 Sauteng Bronkhorsts	2.0 (1)	2.0 (1)	erehospita	1.0 (1)	2.0 (5) 1.0				10 cases
eported  Seef  Sheep  Ipumalang  Olksrust, Coeef: 2  Gauteng  Gronkhorsts  eef: 2	2.0 (1)  Ta Cape Cross Vol	2.0 (1)	erehospita	1.0 (1)	2.0 (5) 1.0				10 cases
deef Sheep Mpumalang Volksrust, Coleef: 2 Gauteng Bronkhorsts deef: 2 Horth West	2.0 (1)  Ta Cape Cross Vol	2.0 (1)  ksrust Die	erehospita kliniek	1.0 (1)	2.0 (5) 1.0				10 cases

Beef: 1									
	with 2 kg of cha	arcoal. Thre	ee weeks ag	go, still a	live, not	100%			
Free State									
	Bethlehem Ar	imal Hos	pital						
Beef: 2									
	ocolan Dierek	liniek							
Beef: 2									
	nel Veterinary	Clinic							
Beef: 1									
Reitz, Riem	land Dierehos	pitaal							
Beef: 2									
Villiers, Wil	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 3									
Wesselsbro	n, Wesselsbro	n Dierekli	niek						
Sheep: 1									
Kwazulu-Na	atal								
Bergville, B	ergville Veteri	nary Clini	С						
Beef: 3									
Dundee, En	dumeni Herd l	nealth							
Beef: 2									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 2									
Eastern Cap	е								
	n, Queenstowi	n Provinci	al Vet Lab						
Beef: 1	, -								
Queenstow	n, Queenstowi	n Veterina	ry clinic						
Beef: 1	, .		<u> </u>						
<b>Western Ca</b>	pe								
	erberg Veteri	narv Hosp	ital						
Beef: 2									
Vermeers	siekte ( <i>Gaig</i>	<i>eria</i> spp	) <b>.</b> )						_
DDOVINCE	Maumalanga	Courtona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
Average	1.0(1)								
Aveluge	1.0 (1)								
Lovel of imp	ortance scale: 1	- one cac	2 – moro	than on	o caco h	ut loce than t	on and 3 –	more than	10 cases
reported	ortanice scale. 1	- One case	z, 2 – 11101 e	tilali oli	e case b	ut iess tilali t	zii aliu 5 –	more triair	io cases
reported									
Sheep	1.0(1)								
Mpumalang									
	four Diereklin	iek							
Sheep: 1	Tour Dicionin	I ÇIX							
Mycotoxi	cosis								^
DDOV/TNCT	Marrasis	Court	I iman and	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Average		3.0 (1)						1.5 (2)	
Attinge		3.0 (1)						1.5 (2)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases

reported

Dairy								2.0 (1)	
Goat		3.0 (1)						1.0 (1)	
Gauteng Hammanski Goat: 3 Western Ca	raal, Themba A	Animal Cli	nic						
	,, Malmesbury	Dierehos	pitaal						
	h, Stellenbosc	h Animal	Hospital						
Goat: 1	ma maasildis hass								
	m mouldy hay.								
Diplodios	is								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)				
Sheep: 2 Other	land Dierehos <sub>l</sub>								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)	1.0 (1)					1.0 (1)	2.5 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep	2.0 (1)							2.5 (2)	
Goat		1.0(1)					1.0 (1)		
Sheep: 2	a Cape Cross Vol		•		eneciosi	s or cyanobao	teria.		
<b>Pretoria, An</b> Goat: 1	ima Veterinar	y Consult	ing Rooms	3					
Acacia nilotica									
Eastern Cap Oueenstow	e n, Queenstowi	1 Provinci	al Vet Lab						
Goat: 1									
Melia azedara	<i>ach</i> /seringboom.	Rumen fu	ll of Berries						

<b>Western Ca</b>	nο								
	s Veterinary H	ospital							
Sheep: 2	, recenius, r	оориса.							
•	e poisoning on	2 farms							
	Piketberg Dier		I						
Sheep: 3									
	e - <i>Ornithogalui</i>	m thyroides	5						
Poisonin		ŕ							
VA/-1									•
water co	ntaminatior	1							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		3.0 (1)							
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef		3.0 (1)							
Gauteng									
	derstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	C		
Beef: 3									
Urea Pois	oning								<u>^</u>
DDOVINGE				North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State	Natal	Cape	Cape	Cape
Average	mpumaianga	Gauteng	Limpopo		State				
Average	ortance scale: 1			West		Natal 1.0 (1)	Cape	Саре	<b>Cape</b> 1.5 (4)
Average Level of impo				West		Natal 1.0 (1)	Cape	Саре	<b>Cape</b> 1.5 (4)
Average  Level of imporeported				West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases
Average  Level of imporeported  Beef				West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na	ortance scale: 1	= one case		West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat Kwazulu-Na Newcastle,	ortance scale: 1	= one case		West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat Kwazulu-Na Newcastle, Beef: 1	ortance scale: 1  stal  Ncanduvet Ne	= one case		West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca	ortance scale: 1  stal  Ncanduvet Ne	= one case		West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca	ortance scale: 1  stal  Ncanduvet Ne	= one case		West		Natal  1.0 (1)  ut less than to	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr	ortance scale: 1  stal  Ncanduvet Ne	= one case	e, 2 = more	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1	ortance scale: 1  otal Ncanduvet Ne  spe Kimberley Die	= one case  ewcastle  rekliniek  d. One anin	e, 2 = more	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1 Postmasbur	ortance scale: 1  Atal  Ncanduvet Ne  Ape  Kimberley Die	= one case  ewcastle  rekliniek  d. One anin	e, 2 = more	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1 Postmasbur Sheep: 2	ortance scale: 1  otal Ncanduvet Ne Ape Kimberley Die eated, recoverer rg, Postmasbu	= one case  wcastle  rekliniek d. One anin	e, 2 = more mal missing	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1 Postmasbur Sheep: 2 Upington, U	ortance scale: 1  otal Ncanduvet Ne  spe Kimberley Die	= one case  wcastle  rekliniek d. One anin	e, 2 = more mal missing	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1 Postmasbur Sheep: 2 Upington, U Sheep: 1	ortance scale: 1  otal Ncanduvet Ne Ape Kimberley Die eated, recoverer rg, Postmasbu	= one case  wcastle  rekliniek d. One anin	e, 2 = more mal missing	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)
Average  Level of imporeported  Beef Sheep Goat  Kwazulu-Na Newcastle, Beef: 1 Northern Ca Kimberley, Beef: 2 Five cattle, tr Goat: 1 Postmasbur Sheep: 2 Upington, U	ortance scale: 1  otal Ncanduvet Ne Ape Kimberley Die eated, recoverer rg, Postmasbu	= one case  wcastle  rekliniek d. One anin	e, 2 = more mal missing	west than on	e case b	1.0 (1)  ut less than to  1.0 (1)	Cape	Саре	1.5 (4) 10 cases 2.0 (1) 1.5 (2)

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (2)		1.0 (1)		1.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					1.0 (2)				1.0 (1)
Sheep							1.0(1)		
Free State									
	, Greylingsrust	Dierespr	eekkamer						
Beef: 1									
	loopstad Diere	ekliniek							
Beef: 1 Eastern Cap	10								
	e Witelsbos Vete	rinary Co	nsultina R	ooms					
Sheep: 1		, 00							
Northern Ca	аре								
	uruman Diere	kliniek							
Beef: 1									
Нуро									_
PROVINCE	Mnumalanga	Cautana		North	Free	Kwazulu-	Eastern	Western	Northern
	ripullialaliga	Gauteng	гітроро	West	State		Cape	Cape	Саре
Average	Fipumalanga	Gauteng	Limpopo						
Average	ortance scale: 1			West	State	Natal	Cape	<b>Cape</b> 2.0 (1)	Саре
Average Level of impo				West	State	Natal	Cape	Cape  2.0 (1)  more than	Саре
Average Level of imporeported Beef	ortance scale: 1			West	State	Natal	Cape	<b>Cape</b> 2.0 (1)	Саре
Average  Level of imporeported  Beef  Western Ca	ortance scale: 1	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.0 (1)  more than	Саре
Average Level of imporeported Beef Western Ca	ortance scale: 1	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.0 (1)  more than	Саре
Average Level of impore reported  Beef Western Ca Malmesbury	pe y, Malmesbury	= one case	e, 2 = more	West	State	Natal	Cape	Cape  2.0 (1)  more than	Саре
Average  Level of impore reported  Beef  Western Ca Malmesbury Beef: 2  Blue-gree	pe y, Malmesbury	= one case	e, 2 = more	West	State	Natal  ut less than t	Cape	Cape  2.0 (1)  more than	Саре
Average  Level of impore reported  Beef  Western Ca Malmesbury Beef: 2  Blue-gree	pe y, Malmesbury	= one case	e, 2 = more	than one	e case b	Natal  ut less than t	en and 3 =	2.0 (1) more than 2.0 (1)  Western	Cape  10 cases  Northern
Average  Level of impore reported  Beef  Western Ca  Malmesbury  Beef: 2  Blue-gree  PROVINCE  Average	pe y, Malmesbury	= one case Dierehos Gauteng	e, 2 = more pitaal Limpopo	than one	e case b	Natal  ut less than t	en and 3 =	2.0 (1) more than 2.0 (1)  Western Cape 1.0 (1)	Cape  10 cases  Northern Cape
Average  Level of imporeported  Beef  Western Ca Malmesbury Beef: 2  Blue-gree  PROVINCE  Average  Level of impore	pe y, Malmesbury en algae Mpumalanga	= one case Dierehos Gauteng	e, 2 = more pitaal Limpopo	than one	e case b	Natal  ut less than t	en and 3 =	2.0 (1) more than 2.0 (1)  Western Cape 1.0 (1)	Cape  10 cases  Northern Cape
Average Level of imporeported Beef Western Ca Malmesbury Beef: 2 Blue-gree PROVINCE Average Level of imporeported Sheep	pe y, Malmesbury en algae Mpumalanga ortance scale: 1	= one case Dierehos Gauteng	e, 2 = more pitaal Limpopo	than one	e case b	Natal  ut less than t	en and 3 =	2.0 (1) more than 2.0 (1)  Western Cape 1.0 (1) more than	Cape  10 cases  Northern Cape
Average  Level of imporeported  Beef  Western Ca  Malmesbury Beef: 2  Blue-gree  PROVINCE  Average  Level of imporeported  Sheep  Western Ca	pe y, Malmesbury en algae Mpumalanga ortance scale: 1	= one case  Dierehos  Gauteng  = one case	e, 2 = more pitaal Limpopo	than one	e case b	Natal  ut less than t	en and 3 =	2.0 (1) more than 2.0 (1)  Western Cape 1.0 (1) more than	Cape  10 cases  Northern Cape

Copper P	oisoning								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average									3.0 (1)
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep									3.0 (1)
Northern Ca	•								
	Aar Veterinary	Clinic							
Sheep: 3 Yellow carcas	ses at abattoir								
Chemicai	products								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average		2.0 (1)				2.0 (1)			
evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.0 (1)			
Goat		2.0 (1)							
Gauteng									
	raal, Themba A	Animal Cli	nic						
Goat: 2 <b>Kwazulu-Na</b>	atal								
	G.Veterinary S	ervices							
Beef: 2									
_ead poisonir	ng								
Other									
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northeri Cape
Average		3.0 (1)			2.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					2.0 (1)				
Goat		3.0 (1)							
Gauteng									
				- d D d		Animal Clini	-		

Plantpoisoning	as. 36 goats								
Free State	gs, so godis								
	shoek Dierepr	aktvk							
Beef: 2	лоск этогорг	uncy n							
Glyphosate po	oisonina								
	utritional F	Problem	ıs						
Energy de	eficiency								
3,	,								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average	1.3 (3)	3.0 (1)	1.7 (3)	3.0 (6)	3.0 (1)	2.0 (2)	2.5 (2)	2.3 (4)	2.0 (4)
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.5 (2)	3.0 (1)	3.0 (1)	3.0 (3)	3.0 (1)	2.0 (2)		2.0 (2)	2.0 (2)
Dairy						•		3.0 (1)	
Sheep	1.0(1)		1.0(1)	3.0 (2)			2.5 (2)	2.0 (1)	2.0 (1)
Goat	1.0 (1)		1.0 (1)	3.0(2)			2.3 (2)	2.0 (1)	2.0 (1)
			1.0 (1)	5.0 (1)					2.0 (1)
Mpumalang									
	four Diereklin	iek							
Beef: 1, Shee									
Standerton,	Econovet								
Beef: 2									
Gauteng									
	aal, Themba <i>l</i>	Animal Cli	nic						
Beef: 3									
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 3, Shee	p: 1, Goat: 1								
North West									
•	Christiana Die	rehospita	al						
Beef: 3									
	Klerksdorp Di	erehospit	aal						
Beef: 3, Shee									
Leeudorings	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3									
	conditions, farm	ers not giv	ing licks.						
Sheep: 3									
Poor grazing o	conditions								
Free State									
Vilioonekroe		<b>D</b> '	kliniak						
viijoenskiod	on, Viljoenskro	oon Diere	Killilek						
Beef: 3	on, viijoenskro	oon Diere	KIIIIEK						
		oon Diere	Killilek						

Beef: 2

Beef: 2
Eastern Cape

Dundee, Endumeni Herd health

#### **Queenstown, Queenstown Provincial Vet Lab** Sheep: 2 Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Western Cape** Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2 **Worcester, Durban Straat Dierekliniek Worcester** Beef: 2 **Northern Cape** Kathu, Kathu Dierekliniek Beef: 2 Postmasburg, Postmasburg Dierekliniek Beef: 2, Sheep: 2, Goat: 2 **Protein deficiency** Kwazulu-Northern North Free Eastern Western **PROVINCE Mpumalanga Gauteng Limpopo** West State Natal Cape Cape Cape 2.0 1.3 (3) 3.0(1) 2.3 (3) 3.0(3)2.0(1)2.0(4)1.7 (6) 2.2(5)**Average** (2)Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported 2.0 2.0(1)**Beef** 1.5 (2) 1.0(1)2.0(2)2.0(2)2.0(1)Dairy 2.0 2.0(1)Sheep 3.0(1)1.5 (2) 2.5 (2) 1.0(1)2.3(3)2.0(1)2.0(1)Goat 1.0(1)**Mpumalanga Balfour, Balfour Dierekliniek** Beef: 1, Sheep: 1 Standerton, Econovet Beef: 2 Gauteng Hammanskraal, Themba Animal Clinic Beef: 3 Limpopo **Polokwane, Pietersburg Veterinary Clinic** Beef: 3, Sheep: 2, Goat: 2 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Poor grazing conditions Sheep: 3 Poor grazing conditions **Free State** Vrede, Saulshoek Dierepraktyk

Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Sheep: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Eastern Cape** Aliwal North, Hertzogbrug Dierekliniek **Graaff-Reinet, Graaff Reinet Veterinary Clinic** Sheep: 2 Twins, poor lactation **Queenstown, Queenstown Provincial Vet Lab** Steynsburg, Steynsburg Dierehospitaal Sheep: 3 **Western Cape** Malmesbury, Dr Otto Kriek Owner was under impression that the nutrition was fairly well balanced because his animals were fat but his animals achieved low grades when slaughtered. Hopefully better growth rate and grads will be achieved with correction of protein content in ration. Goat: 1 Owner was under impression that the nutrition was fairly well balanced because his animals were fat but his animals achieved low grades when slaughtered. Hopefully better growth rate and grads will be achieved with correction of protein content in ration. Malmesbury, Invitrotech Dairy: 2 Poor condition (Various reasons) **Malmesbury, Malmesbury Dierehospitaal** Beef: 2, Sheep: 2 **Worcester, Durban Straat Dierekliniek Worcester** Beef: 2 **Northern Cape** De Aar, De Aar Veterinary Clinic Sheep: 3 Wet carcasses at abattoir **Kuruman, State Vet Kuruman** Beef: 2 Phosphate deficiency (7 cases) Postmasburg, Postmasburg Dierekliniek Beef: 2, Sheep: 2, Goat: 2 **Phosphate deficiency** Kwazulu- Eastern Western Northern North Free **PROVINCE Mpumalanga Gauteng Limpopo West State Natal** Cape Cape Cape 2.0(2)2.0(2)**Average** Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases

2.0(2)

reported

**North West** 

Beef

	Christiana Die	rehospita	al						
Beef: 3									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 1									
	phosphate defi	ciency							
Northern Ca	_								
	uruman Diere	kliniek							
Beef: 2									
	rg, Postmasbu	rg Dierek	liniek						
Beef: 2									
Calcium o	deficiency								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)		2.0 (1)		1.7 (3)	1.5 (2)		2.2 (5)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	_	ut less than t	en and 3 =	more than	10 cases
Beef	1.0(1)		2.0 (1)		1.0 (1)	1.0 (1)		2.0 (2)	
Dairy						2.0(1)		2.3 (3)	
					2.0				
Sheep					(2)				
<b>Mpumalang</b>	a								
	four Diereklin	iek							
Beef: 1									
Limpopo									
	Pietersburg V	eterinary	Clinic						
Beef: 2									
Free State									
-	loopstad Diere	ekliniek							
Beef: 1	Vuonenta I D'		-1						
	Kroonstad Die	renospita	aı						
Sheep: 2	land Diamahaa	nitan!							
Sheep: 2	land Dierehos	pilddl							
Kwazulu-Na	atal .								
	itai Stcourt Vet Clii	nic							
Dairy: 2	toourt vet elli								
	zburg, Veterin	ary House	Hosnital .						
Beef: 1	, *CC:	,							
Cow post cal	vina								
Western Ca									
	ledon Dierekli	iniek							
Dairy: 2									
	erberg Veteri	nary Hosp	ital						
Dairy: 2									
	gerberg Diereh	nospitaal I	Darling						
Beef: 2									
Malmesbury	y, Malmesbury	Dierehos	pitaal						

Beef: 2, Dair									
Micro Nu	ıtritional P	roblem	S						
Iodine de	eficiency								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average						1.0(1)			
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						1.0(1)			
Beef: 1 Single confirr	zburg, Veterin			illborn ca	alves.				
Zinc defic	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average							1.0 (1)		
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat							1.0(1)		
astern Car Graaff-Rein Goat: 1	et, Camdeboo	Veterinar	y Clinic						
Selenium	deficiency								
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northerr Cape
Average				3.0 (1)		2.7 (3)	3.0 (1)	2.0 (1)	2.0 (1)
_evel of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef						2.5 (2)			
Dairy				0.0.4	•	3.0 (1)	3.0 (1)	2.0 (1)	
Sheep				3.0 (1)					2.0 (1)
Goat Horth West									2.0 (1)
hristiana,	Christiana Die	rehospita	al						
Sheep: 3 <b>(wazulu-N</b> a									

Beef: 2									
Estcourt, Es	tcourt Vet Clir	nic							
Beef: 3, Dairy	<b>/</b> : 3								
Eastern Cap									
	y, Cape Cross \	Veterinary	/ Hospital						
Dairy: 3									
Western Ca	-								
	erberg Veteri	nary Hosp	ital						
Dairy: 2									
Northern Ca	_	Dia	!!!.a.!.						
Goat: 2	rg, Postmasbu	rg Diereki	iniek						
Godi: 2									
Magnesiu	ım deficiend	СУ							_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat							1.0(1)		
Eastern Cap	е								
<b>Graaff-Rein</b>	et, Camdeboo	Veterina	y Clinic						
Goat: 1									
Mangane	se deficiend	у							^
	se deficienc		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	^ Northern Cape
			Limpopo						
PROVINCE  Average		Gauteng		West	State	Natal	3.0 (1)	Cape	Cape
PROVINCE  Average  Level of impo	Mpumalanga	Gauteng		West	State	Natal	3.0 (1)	Cape	Cape
PROVINCE  Average  Level of imporeported	Mpumalanga ortance scale: 1	Gauteng		West	State	Natal	3.0 (1) en and 3 =	Cape	Cape
PROVINCE  Average  Level of imporeported  Dairy  Eastern Cap Jeffreys Bay	Mpumalanga ortance scale: 1	Gauteng  = one case	e, 2 = more	West	State	Natal	3.0 (1) en and 3 =	Cape	Cape
PROVINCE  Average  Level of imporeported  Dairy  Eastern Cap  Jeffreys Bay  Dairy: 3	Mpumalanga ortance scale: 1 oe y, Cape Cross V	Gauteng  = one case	e, 2 = more	West	State	Natal	3.0 (1) en and 3 =	Cape	Cape
PROVINCE  Average  Level of imporeported  Dairy  Eastern Cap  Jeffreys Bay  Dairy: 3	Mpumalanga ortance scale: 1	Gauteng  = one case	e, 2 = more	West	State	Natal	3.0 (1) en and 3 =	Cape	Cape
PROVINCE  Average  Level of imporeported  Dairy  Eastern Cap Jeffreys Bay Dairy: 3  Vitamin A	Mpumalanga ortance scale: 1 oe y, Cape Cross V	Gauteng  = one case	e, 2 = more	West	State	Natal	3.0 (1) en and 3 =	Cape	Cape
PROVINCE  Average  Level of imporeported  Dairy  Eastern Cap Jeffreys Bay Dairy: 3  Vitamin A	Mpumalanga ortance scale: 1 oe y, Cape Cross V	Gauteng  = one case	e, 2 = more	west than on	e case b	Natal  ut less than to	Cape  3.0 (1)  en and 3 =  3.0 (1)  Eastern	more than :	Cape  10 cases  A  Northern

					2.3	l			
Beef				3.0 (1)	(3)		3.0 (1)		
Sheep					2.5 (2)				
North West									
	Christiana Die	rehospita	al						
Beef: 3 Free State									
	Hoopstad Diere	ekliniek							
Beef: 3, Shee	-	Citimicit							
	Kroonstad Die	rehospita	al						
Beef: 2									
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee Eastern Cap									
	, Steynsburg D	)ierehosni	taal						
Beef: 3	, occynioburg b	лстспоэрі	- Cuui						
Vitamin E	3 1 deficiend	cy							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Goat							1.0(1)		
Eastern Cap	oe .								
Graaff-Rein	et, Camdeboo	Veterinar	y Clinic						
Goat: 1									
Multi-fa	ctorial Dise	ease Co	nditions	•					
Abortions	S								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (4)		3.0 (1)	2.5 (2)	2.1 (7)	2.0 (6)		2.6 (7)	1.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	2.0 (3)		3.0 (1)	2.5 (2)	2.0 (6)	2.0 (4)		3.0 (2)	
Dairy						2.0 (1)		2.4 (5)	
Sheep	2.0 (1)				3.0 (1)				
Goat						2.0(1)			1.0(1)
						(1)			1.0 (1)

Mpumalanga **Balfour, Balfour Dierekliniek** Beef: 2 Standerton, Econovet Beef: 2 **Volksrust, Cape Cross Volksrust Dierehospitaal** Beef: 2, Sheep: 2 Limpopo **Tzaneen, ZZ2 Farm Practice** Beef: 3 **North West** Christiana, Christiana Dierehospitaal Klerksdorp, Klerksdorp Dierehospitaal Beef: 2 **Free State Bloemfontein, Dr Stephan Wessels** Beef: 3 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 1 **Ladybrand, Ladybrand Dierekliniek** Beef: 2 Reitz, Riemland Dierehospitaal Beef: 2 Vrede, Saulshoek Dierepraktyk Beef: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 2 **Estcourt, Estcourt Vet Clinic** Dairy: 2 **Kokstad, E.G.Veterinary Services** Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 2, Goat: 2 Submitted to laboratory - undiagnosed. **Western Cape** Caledon, Caledon Dierekliniek Dairy: 3 **Darling, Tygerberg Dierehospitaal Darling** Beef: 3 Malmesbury, Dr Otto Kriek Dairy: 2 Malmesbury, Invitrotech Dairy: 1 Malmesbury, Malmesbury Dierehospitaal Beef: 3, Dairy: 3 Swellendam, Swellendam Dierehospitaal Dairy: 3 **Northern Cape** 

Postmasburg, Postmasburg Dierekliniek

Goat: 1									
Stillbirth	5								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.7 (3)	2.0 (4)	2.5 (2)	2.0 (1)	3.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	2.0 (1)				2.5 (2)	2.0 (3)			
Dairy								2.0(1)	
Sheep					3.0 (1)		3.0 (1)		3.0 (1)
Goat						2.0(1)	2.0(1)		
Mpumalang	а								
Volksrust, C	ape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Free State									
	loopstad Diere	ekliniek							
Beef: 3, Shee									
	Ladybrand Die	erekliniek							
Beef: 2 Kwazulu-Na	.tal								
	ıcaı ergville Veteri	nary Clini							
Beef: 2	ergville veteri	nary Cilli	<u> </u>						
	G.Veterinary S	ervices							
Beef: 2	orvetermary o	CI VICCS							
	zburg, Veterin	ary House	Hospital						
Beef: 2			•						
Unfortunately	, most not sent	in for testi	ng by farme	ers					
Goat: 2									
Unfortunately	, most not sent	in for testi	ng by farme	ers					
Eastern Cap									
	, Steynsburg D	Dierehospi	taal						
Sheep: 3, Go									
Western Ca		Dioroboo	nitaal						
Dairy: 2	n, Swellendam	Dierenos	hiragi						
Northern Ca	ne								
	Karoo Veterina	arv Hospit	al						
Sheep: 3		,oopic							
	rium abscesses								
Abscesse									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

			_						
Average	1.0 (2)	1.7 (3)	2	.0 (1)	2.0 (7)	1.2 (6)	1.0 (1)	1.9 (8)	2.0 (1)
Level of imported	ortance scale: 1	= one case	e, 2 = more th	nan one	case bu	ıt less than te	en and 3 =	more than 1	0 cases
Beef	1.0 (2)		2	.0 (1)	1.8 (4)	1.0 (2)		2.0 (2)	2.0 (1)
Dairy		2.0 (1)						2.0 (3)	
Sheep		1.5 (2)			2.3 (3)	1.0 (2)	1.0 (1)	1.7 (3)	
Goat						1.5 (2)			
Mpumalang	а								
	four Diereklin	iek							
Beef: 1									
Bethal, Betl	nal Diereklinie	k							
Beef: 1									
Gauteng									
	ı, Bapsfontein	Dierehosp	itaal						
Dairy: 2									
	ima Veterinar	y Consulti	ng Rooms						
Sheep: 2									
	nderstepoort A	Academic F	lospital and	Produ	ction A	nimal Clinic	:		
Sheep: 1		, , ,	• >						
	rium pseudotube	<i>erculosis</i> (Cl	_A)						
North West			•						
	Christiana Die	renospita	31						
Beef: 2									
Free State	Crowlingsrus	t Diereenw	a a k k a ma a r						
Beef: 1, Shee	Greylingsrus	t Dierespre	еккаттег						
•	ب. د H <b>oopstad Die</b> re	okliniok							
Beef: 3, Shee		ekiiiiek							
	بر. Kroonstad Die	rehosnita:							
Beef: 2	Ki oonstaa Die	. Chospital	<b>41</b>						
	on, Viljoenskr	oon Dierek	diniek						
Sheep: 2	,,		2						
	shoek Dierepr	aktyk							
Beef: 1	•	_							
Kwazulu-Na	atal								
	ugela Vet Clin	ic							
	p: 1, Goat: 1								
	tcourt Vet Cli	nic							
	p: 1, Goat: 2								
Eastern Cap									
	Uitenhage Die	erehospita	al						
Sheep: 1									
Western Ca	-								
	verberg Veteri	nary Hosp	ital						
Dairy: 2, She		la au '* - '							
	s Veterinary H	iospital							
Sheep: 1	d abassa								
Pituitary glan	u adscess								

	jerberg Dierel	ospitaal I	Darling						
Beef: 2									
	,, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
	, Oudtshoorn	Diereklini	ek						
Sheep: 1									
	rium abscessess								
Riversdale,	Riversdal Dier	ekliniek							
Dairy: 1									
Northern Ca									
Kimberley,	Kimberley Die	rekliniek							
Beef: 2									
Face abscesse	es								,
Abscesse	s in genera								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State		Eastern Cape	Western Cape	Northern Cape
Average		1.0 (2)		2.0 (1)	2.7 (3)			2.5 (2)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	l0 cases
Beef				2.0 (1)	2.5 (2)			2.0 (1)	
Dairy		1.0(1)						3.0 (1)	
Sheep		1.0 (1)			3.0 (1)				
Goat									2.0(1)
Gauteng									
	, Bapsfontein	Dierehos	pitaal						
Dairy: 1									
	raal, Themba A	Animal Cli	nic						
Sheep: 1	•								
<b>North West</b>									
Brits, Brits I	Dierekliniek								
Beef: 2									
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2									
Hoopstad, F	loopstad Dier	ekliniek							
Beef: 3, Shee	p: 3								
<b>Western Ca</b>	ре								
	,, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
Northern Ca									
	uruman Diere	kliniek							
Goat: 2									
Bladder s	tones								^

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							1.0(1)	1.0 (1)	2.0 (1)
Level of impo reported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than :	10 cases
Sheep							1.0(1)	1.0(1)	2.0(1)
Eastern Cap	е								
Graaff-Rein	et, Camdeboo	Veterinar	y Clinic						
Sheep: 1									
Vestern Ca <sub>l</sub>									
	(WC), Heidelb	erg Dierel	kliniek						
heep: 1									
Northern Ca									
	(aroo Veterina	iry Hospit	aı						
heep: 2	Dorper rams								
ronuniasis in	Dorper rams								
Blindness									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		2.0 (1)			2.0 (3)			2.0 (2)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than :	10 cases
Beef		2.0 (1)			2.0 (2)				
Dairy								2.0 (1)	
Sheep					2.0 (1)			2.0 (1)	
Goat									2.0(1)
Gauteng									
	aal, Themba A	Animal Cli	nic						
Beef: 2	•								
ree State									
(roonstad, I	Kroonstad Die	rehospita	al						
Beef: 2									
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee									
Western Cap									
	erberg Veterii	nary Hosp	ıtal						
Sheep: 2	(146) 11 11 11								
	(WC), Heidelb	erg Dierel	kliniek						
Dairy: 2									
lorthern Ca	-	kliniak							
K <b>uruman, K</b> Goat: 2	uruman Diere	KIINIEK							

Bloat									^
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 (2)	1.5 (2)	2.0 (3)	1.7 (6)	
Level of imporeported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.0(1)	2.0 (2)				2.0 (1)		2.0(1)	
Dairy	110 (1)	2.0 (2)				1.0 (1)	2.0 (1)	1.5 (4)	
Dan y					2.0	1.0 (1)	2.0 (1)	1.5 (4)	
Sheep	2.0 (1)				2.0 (2)		3.0 (1)	2.0 (1)	
Goat							1.0(1)		
Beef: 1 Lydenburg, 1 Sheep: 2 Gauteng Bapsfontein, Beef: 1 Hammanskr Beef: 3 Free State Villiers, Wilg Sheep: 2 Vrede, Sauls Sheep: 2 Closantel over Kwazulu-Na Estcourt, Est Dairy: 1	rootvlei Diere Longtom Diere , Bapsfontein , Bapsfontein aal, Themba A gepoort Dierek shoek Dierepra rdose in lambs tal tcourt Vet Clir sburg, Veterin	ekliniek Dierehos Animal Cli Kliniek Ve aktyk	nic						
Dairy: 2	Riverview Tra et, Camdeboo			j Service	es				
	Steynsburg D	ierehospi	taal						
Sheep: 3 <b>Western Cap Heidelberg (</b> Dairy: 2, Shee	(WC), Heidelb	erg Dierel	kliniek						
	, Invitrotech								
	<b>, Malmesbury</b> : 2	Dierehos	pitaal						

	Riversdal Dier	ekliniek							
Dairy: 1  Blood gut	t (sheep and	d goat)							/
	Mpumalanga		Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					1.0 (1)		1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Sheep					1.0 (1)		1.0 (1)		
Free State	osolom Diorok	liniak					_		
Sheep: 1	ocolan Dierek	ппек							
Eastern Cap	e								
	ve Witelsbos Vete	rinary Co	nsultina R	looms					
Sheep: 1		, 00							
Blue udd	er								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)				2.0 (3)	1.7 (3)	2.0 (2)	1.3 (3)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases
Beef						2.0(1)			
Dairy						2.0 (1)		1.0(1)	
Sheep	1.0 (1)				2.0 (3)	1.0 (1)	2.0 (2)	, ,	2.0 (1)
Mpumalang	а						<u>'</u>		
	ape Cross Vol	ksrust Die	rehospita	al					
Sheep: 1									
Free State									
	loopstad Diere	ekliniek							
Sheep: 3	gepoort Dierel	diniak Va	nnooteles-						
Sheep: 2	дероогт Біегеі	kiiiiek ve	ппоосѕкар	)					
	n, Wesselsbro	n Dierekli	niek						
Sheep: 1	, == 300010010								
Kwazulu-Na	ital								
	ergville Veteri	nary Clini	С						
Beef: 2									
	tcourt Vet Clir	nic							
Dairy: 2, She	on: 1								
Eastern Cap									

	Steynsburg, Steynsburg Dierehospitaal											
	, Steynsburg L	Dierenospi	taai									
Sheep: 3	Witelsbos Vete	rinam: Ca	naultina D									
Sheep: 1	witeispos vete	ermary Co	nsulting K	OOMS								
Western Ca	no											
	est, Beaufort \	Noct State	a Vot									
Sheep: 1	est, beautoit i	West State	e vet									
	Caledon, Overberg Veterinary Hospital											
	Caledon, Overberg Veterinary Hospital Sheep: 2											
	h, Stellenbosc	h Animal	Hospital									
Dairy: 1	ii, otellelibose	ii Aiiiiidi	i iospicai									
Northern Ca	ape											
	Kuruman Diere	kliniek										
Sheep: 2												
Diarrhoe	a								^			
				North	Free	Kwazulu-	Eastern	Western	Northern			
PROVINCE	Mpumalanga	Gauteng	Limpopo	West		Natal	Cape	Cape	Cape			
Average	1.5 (4)	1.5 (4)		3.0 (6)	2.3	2.0 (12)	15(2)	2.6 (9)				
Atcluge	1.5 (1)	1.5 (1)		5.0 (0)	(17)	2.0 (12)	1.5 (2)	2.0 ()				
	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than :	10 cases			
reported												
_					2.4			(-)				
Beef	1.5 (4)	1.3 (3)		3.0 (3)	(9)	2.3 (7)		2.0(2)				
					(7)			2.0.(6)				
Dairy						1		2.8 (6)				
Sheep		2.0(1)		3.0 (3)	2.1	1.7 (3)	2.0 (1)	2.0 (1)				
энеер		2.0 (1)		3.0 (3)	(8)	1.7 (3)	2.0 (1)	2.0 (1)				
Goat						1.5 (2)	1.0(1)					
Mpumalang	a											
	four Diereklin	iek										
Beef: 1	Tour Bicreitini	ion .										
	irootvlei Diere	kliniek										
Beef: 2												
Lydenburg,	<b>Longtom Dier</b>	ekliniek										
Beef: 1												
One bull with	severe diarrhoe	ea - reacted	to treatme	ent								
Volksrust, C	Cape Cross Vol	ksrust Die	erehospita	al								
Beef: 2												
Calf diarrhoea	a											
Gauteng												
-	n, Bapsfontein	Dierehos	pitaal									
Beef: 1												
	raal, Themba <i>l</i>	Animal Cli	nic									
Beef: 1	Ma		7 - CC									
	rg, Magaliesbu	ırg; Dr Ry	an Jeffrey									
Beef: 2												
Calf												
Sheep: 2												
Lamb												

**North West** Christiana, Christiana Dierehospitaal Klerksdorp, Buffeldoorn Dierehospitaal Sheep: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Stella, Stella Dierekliniek Beef: 3, Sheep: 3 **Free State Bultfontein, Greylingsrust Dierespreekkamer** Beef: 3, Sheep: 2 Clocolan, Clocolan Dierekliniek Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Sheep: 2 Parys, Parys Dierehospitaal Beef: 3 Reitz, Riemland Dierehospitaal Beef: 3 Seasonal, after cows started grazing green grass Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 **Vrede, Saulshoek Dierepraktyk** Beef: 2, Sheep: 2 **Vrede, Vrede Dierehospitaal** Sheep: 2 Lambs Wesselsbron, Wesselsbron Dierekliniek Beef: 1, Sheep: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 Bergville, Tugela Vet Clinic Beef: 2, Sheep: 2, Goat: 2 **Dundee, Endumeni Herd health** Beef: 2 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2, Sheep: 2 Pietermaritzburg, Veterinary House Hospital Beef: 3 Majority calves - informal/rural cattle Pongola, Pongola Animal Clinic Beef: 1, Sheep: 1, Goat: 1 **Vryheid, Vryheid Privaat Veeartse** Beef: 3 **Eastern Cape Graaff-Reinet, Graaff Reinet Veterinary Clinic Uitenhage, Uitenhage Dierehospitaal** 

Goat: 1

Western Ca	ne											
	ledon Dierekli	niek										
Beef: 2, Dairy		IIICK										
	erberg Veteri	nary Hosn	ital									
Dairy: 3	ciberg veterii	ilai y 1103p	ricai									
	, Dr Otto Krie	l <sub>r</sub>										
	Dairy: 2											
•	, Invitrotech											
Dairy: 3	y, ilivitiotecii											
12 cases												
	, Malmesbury	Diorobos	nitaal									
	/: 3, Sheep: 2	Dicicios	pitaai									
	n, Swellendam	Dierehos	nitaal									
Dairy: 3	i, Swellellualli	Dicicios	pitaai									
Daliy. 3												
<b>Epididym</b>	itis								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average		2.0 (1)			2.0 (1)			1.0 (1)				
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
Sheep		2.0 (1)			2.0 (1)							
Goat								1.0(1)				
Gauteng												
Bronkhorst	spruit, Kerkstr	aat Diere	kliniek									
Sheep: 2												
Free State												
	ocolan Dierek	liniek										
Sheep: 2												
Western Ca	pe											
	Riversdal Dier	ekliniek										
Goat: 1												
Eye Canc	er								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	1.0 (1)				1.3 (3)	2.0 (2)		2.0 (3)	1.0 (1)			
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
Beef	1.0 (1)				1.0 (1)	2.0 (1)		2.0 (1)	1.0 (1)			

Dairy					2.0	2.0 (1)		2.0 (2)	
oun y					(1)	2.0 (1)		2.0 (2)	
Sheep					1.0 (1)				
Mpumalang	а								
	irootvlei Diere	kliniek							
Beef: 1									
Free State									
	, Greylingsrus	t Dierespr	eekkamer	•					
Sheep: 1	. Hawkeandla	Diavaldia	:ala						
nertzogvine Dairy: 2	e, Hertzogville	Dierekiin	іек						
•	Kroonstad Die	rehosnita	l						
Beef: 1	Ki oolistaa Die	i enospita	aı .						
Kwazulu-Na	ntal								
	ergville Veteri	narv Clini	C						
Beef: 2		,							
Estcourt, Es	tcourt Vet Cli	nic							
Dairy: 2									
Western Ca	pe								
	erberg Veteri	nary Hosp	ital						
Dairy: 2									
	y, Malmesbury	Dierehos	pitaal						
Beef: 2, Dairy									
Northern Ca		1.11							
<b>Kuruman, K</b> Beef: 1	uruman Diere	Kiiniek							
beer: 1									
Eye infec	tions								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (6)	1.5 (4)		3.0 (8)	2.3 (16)	1.6 (12)	2.0 (1)	3.0 (6)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.8 (4)	1.5 (2)		3.0 (5)	2.4 (10)	1.7 (6)		3.0 (3)	
Dairy					1.0 (1)	1.5 (2)		3.0 (2)	
Sheep	1.5 (2)	1.5 (2)		3.0 (3)	2.4 (5)	1.0 (1)	2.0 (1)	3.0 (1)	
Goat						1.7 (3)			
Mpumalang									
	four Diereklin	iok							
Balfour, Bal		ick							
Beef: 1, Shee	ep: 1								
Beef: 1, Shee									

Moraxella bovis

Sheep: 2 Moraxella **Nelspruit, Nelspruit Animal Hospital Volksrust, Cape Cross Volksrust Dierehospitaal** Beef: 2 Gauteng **Bapsfontein, Bapsfontein Dierehospitaal** Sheep: 1 **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2, Sheep: 2 Hammanskraal, Themba Animal Clinic Beef: 1 **North West** Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Klerksdorp Dierehospitaal Beef: 3, Sheep: 3 Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Dust, vitamin A deficiency, Moraxella Sheep: 3 Lichtenburg, Dr CM Kruger-Rall Beef: 3 Stella, Stella Dierekliniek Beef: 3, Sheep: 3 **Free State Bloemfontein, Dr Stephan Wessels Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2, Sheep: 2 Hertzogville, Hertzogville Dierekliniek Dairy: 1 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 **Kroonstad, Kroonstad Dierehospitaal** Beef: 3, Sheep: 2 Ladybrand, Ladybrand Dierekliniek Beef: 2 Parys, Parys Dierehospitaal Beef: 3 Reitz, Riemland Dierehospitaal Beef: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Vrede, Saulshoek Dierepraktyk Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 1, Sheep: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 Bergville, Tugela Vet Clinic Beef: 1, Goat: 1 **Dundee, Endumeni Herd health** 

D ( 1 D :	2								
Beef: 1, Dairy		. • .							
	tcourt Vet Cli								
	/: 1, Sheep: 1, (								
	Mtubatuba Ai	nimai Ciin	IC						
Beef: 2, Goat		/oonstan							
Beef: 2	yheid Privaat \	veeartse							
Eastern Cap	et, Graaff Reii	not Votori	namı Clinia	_					
Sheep: 2	et, Graam Keii	net veterii	nary Clinic	3					
Western Ca		nami Haan	:4-1						
	erberg Veteri	пагу поѕр	ıldı						
Sheep: 3	erberg Dierel	ocnitaal [	)orling						
Beef: 3	jei beig bielei	iospitaai t	Jailing						
Pink eyes									
Dairy: 3									
Pink eyes									
	y, Malmesbury	Dierehos	nitaal						
Beef: 3, Dairy		Dicicios	picaai						
	Durban Straat	· Diereklin	iek Worce	cter					
Beef: 3	Dai ban Straat	. Dielekiiii	ick Work	JCI .					
beer. 5									
Joint Ill									<u>^</u>
DROVINCE	Mpumalanga	Coutona	Limnono	North	Free	Kwazulu-	Eastern	Western	Northern
PROVINCE	mpumaianga	Gauteng	широро	West	State	Natal	Cape	Cape	Cape
					1.5				
Average	1.7 (3)	1.0 (1)			1.5	2.0 (2)	2.0 (1)	1.8 (4)	
Average	1.7 (3)	1.0 (1)			1.5 (2)	2.0 (2)	2.0 (1)	1.8 (4)	
_			2 – more	than on	(2)				10 cases
Level of impo	1.7 (3) ortance scale: 1		e, 2 = more	e than on	(2)				10 cases
_			e, 2 = more	e than on	(2) e case b				10 cases
Level of imporeported	ortance scale: 1		e, 2 = more	e than on	(2)	ut less than t		more than :	10 cases
Level of impo			e, 2 = more	e than on	(2) e case b				10 cases
Level of imporeported  Beef	ortance scale: 1	= one case	e, 2 = more	than on	(2) e case b	ut less than t		more than :	10 cases
Level of imporeported	ortance scale: 1		e, 2 = more	e than on	(2) e case b 1.0 (1)	ut less than t		more than :	10 cases
Level of imporeported  Beef  Dairy	ortance scale: 1	= one case	e, 2 = more	than on	(2) e case b	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of imporeported  Beef	ortance scale: 1	= one case	e, 2 = more	than on	(2) e case b 1.0 (1)	ut less than t	en and 3 =	more than :	10 cases
Level of imporeported  Beef  Dairy  Sheep	ortance scale: 1	= one case	e, 2 = more	e than on	(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of imporeported  Beef  Dairy  Sheep  Mpumalang	ortance scale: 1	= one case 1.0 (1)	e, 2 = more	than on	(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal	ortance scale: 1	= one case 1.0 (1)	e, 2 = more	e than on	(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2	ortance scale: 1  1.7 (3)  1.8 (3)  1.9 (3)	= one case 1.0 (1)	e, 2 = more	e than on	(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G	ortance scale: 1	= one case 1.0 (1)	e, 2 = more	e than on	(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Balbeef: 2 Grootvlei, GBeef: 2	ortance scale: 1  1.7 (3)  a four Diereklin	= one case  1.0 (1)  iek			(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Balbeef: 2 Grootvlei, GBeef: 2	ortance scale: 1  1.7 (3)  1.8 (3)  1.9 (3)	= one case  1.0 (1)  iek			(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G Beef: 2 Volksrust, C Beef: 1	ortance scale: 1  1.7 (3)  a four Diereklin	= one case  1.0 (1)  iek			(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G Beef: 2 Volksrust, C Beef: 1 Gauteng	1.7 (3)  1.7 (3)  a four Diereklin crootvlei Diere	= one case  1.0 (1)  iek kliniek ksrust Die	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G Beef: 2 Volksrust, C Beef: 1 Gauteng Bapsfonteir	ortance scale: 1  1.7 (3)  a four Diereklin	= one case  1.0 (1)  iek kliniek ksrust Die	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G Beef: 2 Volksrust, C Beef: 1 Gauteng	1.7 (3)  1.7 (3)  a four Diereklin crootvlei Diere	= one case  1.0 (1)  iek kliniek ksrust Die	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2 Grootvlei, G Beef: 2 Volksrust, C Beef: 1 Gauteng Bapsfonteir Dairy: 1 Free State	1.7 (3)  1.7 (3)  a four Diereklin Grootvlei Diere Cape Cross Vol	= one case  1.0 (1)  iek  kliniek  ksrust Die	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Bal Beef: 2  Grootvlei, G Beef: 2  Volksrust, C Beef: 1  Gauteng Bapsfonteir Dairy: 1  Free State Ladybrand,	1.7 (3)  1.7 (3)  a four Diereklin crootvlei Diere	= one case  1.0 (1)  iek  kliniek  ksrust Die	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Balbeef: 2  Grootvlei, Geef: 2  Volksrust, Ceef: 1  Gauteng Bapsfonteir Dairy: 1  Free State Ladybrand, Sheep: 2	1.7 (3)  1.7 (3)  1.7 (3)  1.7 (3)  1.7 (3)  1.7 (3)  1.8 (3)  1.9 (3)  1.9 (3)  1.9 (3)	= one case  1.0 (1)  iek  kliniek  ksrust Die  Dierehosp  erekliniek	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases
Level of impore reported  Beef  Dairy  Sheep  Mpumalang Balfour, Balbeef: 2  Grootvlei, Geef: 2  Volksrust, Ceef: 1  Gauteng Bapsfonteir Dairy: 1  Free State Ladybrand, Sheep: 2	1.7 (3)  1.7 (3)  a four Diereklin Grootvlei Diere Cape Cross Vol	= one case  1.0 (1)  iek  kliniek  ksrust Die  Dierehosp  erekliniek	erehospita		(2) e case b 1.0 (1) 2.0	ut less than t	en and 3 =	nore than 1.5 (2) 2.0 (1)	10 cases

Kwazulu-Na												
	ergville Veteri	nary Clini	С									
Beef: 2												
Pietermarit:	zburg, Veterin	ary House	e Hospital									
Beef: 2												
calves												
Eastern Cape												
Graaff-Reinet, Graaff Reinet Veterinary Clinic												
Sheep: 2												
Western Cape												
	erberg Diereh	ospitaal I	Darling									
Beef: 1	, <b>.</b>											
Malmesbury	, Malmesbury	Dierehos	pitaal									
	/: 2, Sheep: 2	2.0.0	<b>P</b> 1000									
Deer. 2, Dan y	. 2, onecp. 2											
Lamenes	s/Foot Prob	lems							^			
				North	Fuee	Kwazulu-	Enghaus	Western	Northern			
PROVINCE	Mpumalanga	Gauteng	Limpopo	West	State		Eastern Cape	Cape	Cape			
Avenage	1 6 (5)	1.8 (4)		3.0 (1)	1.8	1.0 (4)		2.1 (9)				
Average	1.6 (5)	1.8 (4)		5.0 (1)	(4)	1.8 (4)		2.1 (8)				
					( ')							
Level of impo	ortance scale: 1	= one case	e. 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases			
reported	ortance scale. I	one case	2, 2 111010	chair on	c case b	at iess than t	cir dila 5	more than	ro cases			
Геропец												
Poof	1 0 (1)	20(2)		3.0 (1)	1.8	2.0.(2)		2.0.(2)				
Beef	1.8 (4)	2.0 (3)		3.0 (1)	(4)	2.0 (2)		2.0 (2)				
Dairy					( - /	1.0 (1)		2.0 (4)				
-						1.0 (1)		2.0 (4)				
Sheep	1.0(1)	1.0 (1)						2.5 (2)				
Goat						2.0(1)						
Mpumalang						_; (-)						
		lelimin le										
•	rootvlei Diere	Kiiniek										
Beef: 2	Na: -1 -1 - 11	<b></b>										
	, Middelburg I	Dierenosp	itaai									
Beef: 1, Shee	•		_									
	elspruit Anima	al Hospita	<u> </u>									
Beef: 2												
-	ape Cross Vol	ksrust Die	erehospita	al								
Beef: 2												
Gauteng												
	spruit, Kerkstr	aat Diere	kliniek									
Beef: 1												
	raal, Themba <i>l</i>	Animal Cli	nic									
Beef: 3												
	-	cademic	Hospital a	nd Prod	uction A	Animal Clinic	С					
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2, Sheep: 1												
North West												
Christiana, Christiana Dierehospitaal												
Beef: 3		•										
Free State												
	Greylingsrust	Dierespr	eekkamer									
Beef: 2												
	Ladybrand Die	erekliniek										

Beef: 2

Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 2

**Wesselsbron, Wesselsbron Dierekliniek** 

Beef: 1

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Dairy: 1

**Pietermaritzburg, Veterinary House Hospital** 

Beef: 2, Goat: 2 Rural goat herds **Western Cape** 

Caledon, Overberg Veterinary Hospital

Beef: 2, Dairy: 1

Malmesbury, Invitrotech

Dairy: 3 17 Cases

**Malmesbury, Malmesbury Dierehospitaal** 

Beef: 2, Dairy: 3, Sheep: 2

Moorreesburg, Tygerberg mooreesburg

Sheep: 3

Lameness 1; Foot rot 3

Riversdale, Riversdal Dierekliniek

Dairy: 1

Lung infection										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.6 (9)	1.5 (2)	2.4 (5)	2.3 (7)	2.3 (13)	1.8 (12)	1.0 (1)	2.0 (10)	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	1.6 (5)		2.0 (3)	2.0 (3)	2.3 (8)	1.7 (6)	1.0 (1)	2.0 (1)	2.0 (1)
Dairy						2.5 (2)		1.8 (6)	
Sheep	1.5 (4)	1.0 (1)	3.0 (1)	2.7 (3)	2.4 (5)	1.7 (3)		2.5 (2)	
Goat		2.0 (1)	3.0 (1)	2.0 (1)		1.0 (1)		2.0 (1)	

Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 2, Sheep: 1 Pasteurellosis

**Bethal, Bethal Dierekliniek** 

Beef: 1, Sheep: 1

Grootvlei, Grootvlei Dierekliniek

Beef: 2, Sheep: 2

Lydenburg, Longtom Dierekliniek

Sheep: 2

Pasteurellosis, seen at necropsy

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

Beef: 1

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

Beef: 2

## Gauteng Hammanskraal, Themba Animal Clinic

Sheep: 1, Goat: 2

Limpopo

#### Makhado, Blouberg Dierekliniek

Beef: 3, Sheep: 3, Goat: 3

Mokopane, Dr Henk Visser

Beef: 1

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

Beef: 2 North West

### Christiana, Christiana Dierehospitaal

Beef: 3, Sheep: 3

### Klerksdorp, Buffeldoorn Dierehospitaal

Sheep: 3 Cold weather

### Klerksdorp, Klerksdorp Dierehospitaal

Beef: 1

*Pasteurella multocida* type B, Bovine - One case where the dead animal was sent to Prof Prozesky, confirmed the disease in cattle. Occurrence very sporadic. High mortality rate in animals treated, even if caught early.

### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2

Variation between day and night temperatures

Sheep: 2, Goat: 2
Free State

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

Beef: 2

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

Reef: 2

### **Bultfontein, Greylingsrust Dierespreekkamer**

Sheep: 2

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

Beef: 3, Sheep: 3

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

Beef: 2

#### Parys, Parys Dierehospitaal

Beef: 2

Salmonella Dublin in calves - 2 died out of group of 25. Three calves treated and recovered. Morbidity 25%.

#### Viljoenskroon, Viljoenskroon Dierekliniek

Beef: 3, Sheep: 3

#### Villiers, Wilgepoort Dierekliniek Vennootskap

Beef: 2, Sheep: 2

## Vrede, Vrede Dierehospitaal

Beef: 2, Sheep: 2 **Kwazulu-Natal** 

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

Beef: 2

### Bergville, Tugela Vet Clinic

Beef: 1, Sheep: 1, Goat: 1

**Dundee, Endumeni Herd health** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Beef: 1, Dairy: 2

Pietermaritzburg, Veterinary House Hospital

Beef: 2, Sheep: 2

Pongola, Pongola Animal Clinic

Sheep: 2

Pasteurellosis - Veldt animals, unusual for Pongola. Fluctuating temperatures?

**Underberg, Underberg Veterinary Surgery** 

Dairy: 3

Cows and calves, season changes every 6 hours

**Vryheid, Vryheid Privaat Veeartse** 

Beef: 2 **Eastern Cape** 

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 1

**Western Cape** 

Caledon, Caledon Dierekliniek

Dairy: 2

**Caledon, Overberg Veterinary Hospital** 

Sheep: 3

**Darling, Tygerberg Dierehospitaal Darling** 

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 1

Malmesbury, Invitrotech

Dairy: 1 One case

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 3

Moorreesburg, Tygerberg mooreesburg

Sheep: 2

Stellenbosch, Stellenbosch Animal Hospital

Dairy: 1

**Wellington, Wellington Dierehospitaal** 

Goat: 2
Pasteurellosis
Northern Cape

**Upington, Upington Veeartsenykliniek** 

Beef: 2

Warm days, cold nights, wind

Mastitis in general										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (2)			1.0 (2)	2.5 (2)	1.9 (7)	2.0 (1)	2.2 (12)	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(2)		1.0 (2)	3.0 (1)	1.6 (5)		1.5 (2)	1.0(1)
Daim				2.0	2.0 (1)		2.2 (10)	
Dairy				(1)	3.0 (1)		2.3 (10)	
Sheep					2.0 (1)	2.0 (1)		2.0 (1)
<b>Mpumalang</b>	ja							
Balfour, Ba	lfour Diereklin	iek						
Beef: 1								
Grootvlei, G	rootvlei Diere	kliniek						
Beef: 1								
<b>North West</b>								
Christiana,	Christiana Die	rehospitaal						
Beef: 1								
Klerksdorp,	Klerksdorp Di	ierehospitaal						
Beef: 1								
Free State								
Bloemfonte	in, Dr Stephar	n Wessels						
Beef: 3								
Hertzogville	e, Hertzogville	Dierekliniek						
Dairy: 2	-, <del>-</del> -							
Kwazulu-Na	atal							
	ergville Veteri	nary Clinic						
Beef: 1	<u></u>							
	vn, Camperdov	wn Vet Clinic						
Beef: 1	, ca <b>p</b> cac.							
	stcourt Vet Cli	nic						
Dairy: 3								
•	Mtubatuba A	nimal Clinic						
Beef: 2	Titubutubu A							
	zhura. Veterin	ary House Hosp	ital					
Beef: 2, Shee		ury mouse mosp						
Rural farmers								
	ongola Animal	Clinic						
Beef: 2	nigola Allilla	Cimic						
Eastern Car	16							
		net Veterinary C	linic					
Sheep: 2	iet, Graan Ken	net vetermary c	AIIIIC					
Western Ca	ne .							
	aledon Dierekli	iniek						
Dairy: 3	iledoli Dieleki	illiek						
	verberg Veteri	nary Hosnital						
Dairy: 3	verberg veteri	ilai y 1105pitai						
•	aerbera Dierek	nospitaal Darling	•					
Dairy: 2	gerberg bierer	iospitaai Dailiili	<b>.</b>					
•	Mark Chimes							
Dairy: 2	riai k Cillines							
•	(WC) Haidalh	erg Dierekliniek	•					
Dairy: 2	(110), Heidelb	cia piereviiliek	<u> </u>					
	y, Dr Otto Krie	k						
	y, Di Otto Krie	in.						
Dairy: 1	v Invitratach							
	y, Invitrotech							
Dairy: 3	2014 62666							
Mastitis, 33 r		Dierehospitaal						
нашесьиг	у, маннеѕригу	Dierenospitaai						

Beef: 2, Dairy									
	Riversdal Dier	ekliniek							
Dairy: 1									
	, Swellendam	Dierehos	pitaal						
Dairy: 3	Durban Straat	Dioroklin	iok Worce	ctor					
Beef: 1	Dui Daii Stiaat	DICIEKIIII	iek woice	Stei					
Northern Ca	ipe								
	u Dierekliniek								
Beef: 1									
	uruman Diere	kliniek							
Sheep: 2									
Navel Ill									_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	2.0 (1)			1.0 (1)	1.5 (2)	2.0 (1)	2.0 (2)	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	.0 cases
Beef	1.0 (1)	2.0 (1)			1.0 (1)	1.5 (2)			
Dairy								2.0(2)	
Sheep							2.0(1)		
Mpumalang	a								
	four Diereklin	iek							
Beef: 1									
Gauteng									
	pruit, Kerkstr	aat Diere	kliniek						
Beef: 2 Free State									
	ocolan Dierek	liniek							
Beef: 1	ocoldii Dicick								
Kwazulu-Na	ital								
Bergville, Be	ergville Veteri	nary Clini	С						
Beef: 2									
	zburg, Veterin	ary House	e Hospital						
Beef: 1									
Eastern Cap		at Vatari	name Climie	_					
Graam-Kein Sheep: 2	et, Graaff Reir	iet veteri	nary Clinic	3					
Western Ca	ne								
	, Malmesbury	Dierehos	pitaal						
Dairy: 2	, ,ay	J.C. C.1.03	P.10001						
Stellenbosc	h, Stellenbosc	h Animal	Hospital						
Dairy: 2									
Red gut (	Sheep)								_

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (1)		1.0 (1)		
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Sheep					2.0 (1)				
Goat	2.0(1)						1.0(1)		
Mpumalang								<u> </u>	
	lelspruit Anim	al Hospita	ı						
Goat: 2									
Free State									
	ocolan Dierek	liniek							
Sheep: 2 Eastern Cap	10								
	et, Camdeboo	Veterinar	v Clinic						
Goat: 1	et, camaeses		,						
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (1)	1.0 (3)				1.0(1)		1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0(1)							
Dairy		· · · · · · · · · · · · · · · · · · ·						1.0(1)	
Sheep	1.0(1)	1.0(1)							
Goat	1.0 (1)	1.0 (1)				1.0 (1)			
	-	1.0 (1)				1.0 (1)			
Mpumalang	a Longtom Dier	okliniok							
Sheep: 1	Longton Dici	CKIIIICK							
Gauteng									
Pretoria, Or	nderstepoort A	cademic I	Hospital a	nd Prod	uction A	Animal Clinic	С		
Beef: 1									
Fractures; Dis	slocated jaw								
Sheep: 1 Fractures									
Goat: 1									
Fractures									
Kwazulu-Na	atal								
	n, Camperdov	vn Vet Cli	nic						
Goat: 1									
Mauled by do Western Ca									

Malmesbury Dairy: 1	,, Dr Otto Krie	k							
Downer									<u>^</u>
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.0 (2)	1.6 (5)		1.0 (1)	1.5 (4)	2.0 (2)		1.8 (4)	2.0 (1)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than to	en and 3 =	more than	10 cases
Beef	1.0 (2)	1.8 (4)		1.0 (1)	1.5 (2)	2.0 (1)			2.0 (1)
Dairy					1.0 (1)	2.0 (1)		1.8 (4)	
Sheep Mpumalang		1.0(1)			2.0 (1)				
Beef: 1 Volksrust, C Beef: 1 Gauteng Bapsfontein Beef: 1 Bronkhorsts Beef: 2 Hammanski	cape Cross Vol n, Bapsfontein spruit, Kerkstr	ksrust Die Dierehos aat Diere	oitaal kliniek	al					
Beef: 1 North West Leeudorings Beef: 1	nderstepoort A				uction A	Animal Clinic			
Beef: 1, Dairy	ocolan Dierek								
Wesselsbro Sheep: 2 Kwazulu-Na	n, Wesselsbro ntal ntcourt Vet Clir		niek						
Pietermarit Beef: 2 Around calvin Western Ca	_		e Hospital						
Dairy: 1									

Dairy: 2										
	, Invitrotech									
Dairy: 2										
Seven cases										
	, Swellendam	Dierehos	pitaal							
Dairy: 2										
Northern Ca		lelimin le								
Beef: 2	uruman Diere	Kiiniek								
Traumati	c Reticulo-p	pericard	itis						_	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West		Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (1)	1.0(1)				2.0 (1)	1.0 (1)	2.0 (1)		
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 10 cases reported										
Beef	1.0(1)	1.0(1)				2.0(1)	1.0(1)			
Dairy								2.0(1)		
-								2.0 (1)		
Mpumalanga Balfour, Balfour Dierekliniek										
Bai <b>rour, Ba</b> ii Beef: 1	rour Dierekiin	iek								
Gauteng Protoria Onderstangert Academic Hospital and Production Animal Clinic										
Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic  Beef: 1										
Kwazulu-Na	ital									
	heid Privaat \	/eeartse								
Beef: 2										
Eastern Cap	e									
Cofimvaba,	State Vet Cofi	mvaba								
Beef: 1										
Western Ca <sub>l</sub>										
	erberg Dierel	nospitaal I	Darling							
Dairy: 2										
Other									4	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average		1.0(1)					1.0 (1)	3.0 (1)	1.0 (1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
		1.0(1)					1.0(1)			
Beef										
Beef Dairy								3.0 (1)		
								3.0 (1)	1.0 (1)	

Beef: 1

Udder oedema

#### **Eastern Cape**

### **Humansdorp, Humansdorp Veterinary Clinic**

Beef: 1

#### **Western Cape**

## Malmesbury, Invitrotech

Dairy: 3

Fever, five cases; rumenal stasis, 3 cases; 182 cows culled; 47 deaths

### **Northern Cape**

## Kimberley, Kimberley Dierekliniek

Sheep: 1 Meningitis

М	eta	boli	IC D	isea	ses

Acidosis										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.3 (4)	1.7 (3)	2.0 (1)	2.0 (3)	2.1 (7)	2.3 (3)	1.0 (2)	2.0 (6)	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)	2.0 (2)	2.0 (1)	2.0 (1)	2.0 (4)	2.0 (1)	1.0 (1)	2.0 (1)	
Dairy		1.0 (1)			1.0 (1)	2.0 (1)		2.5 (2)	
Sheep	1.0(1)			2.0 (2)	3.0 (2)	3.0 (1)		2.0 (2)	2.0 (1)
Goat	2.0(1)						1.0(1)	1.0(1)	

### Mpumalanga

## Grootvlei, Grootvlei Dierekliniek

Beef: 1, Sheep: 1

## Nelspruit, Nelspruit Animal Hospital

Goat: 2

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

Beef: 1

Gauteng

## **Bronkhorstspruit, Kerkstraat Dierekliniek**

Reef· 1

### Hammanskraal, Themba Animal Clinic

Beef: 3, Dairy: 1

### Limpopo

## **Polokwane, Pietersburg Veterinary Clinic**

Beef: 2 North West

### Leeudoringstad, Leeudoringstad Dierekliniek

Beef: 2 Maize fields

Sheep: 2									
Maize fields									
	yburg Diereho	spitaal							
Sheep: 2	,	-р							
Free State									
	Bethlehem Ar	nimal Hosi	nital						
Beef: 2, Shee		u. 1105 <sub> </sub>	picai						
	ocolan Dierek	liniak							
Beef: 3, Shee		iiiick							
	Dosvrystaat Di	ara Drodu	kto						
Dairy: 1	Josvi ystaat Di	ere Froud	inte						
	Kroonstad Die	robocnita							
Beef: 2	Ki oolistaa Die	enospica	aı						
	Ladybrand Die	oroklimiok							
Beef: 1	Ladybrand Die	erekiiiiek							
Kwazulu-Na	.tal								
		14 .							
	dumeni Herd l	neaith							
Sheep: 3									
	tcourt Vet Cli	nic							
Dairy: 2									
	zburg, Veterin	ary House	Hospitai						
Beef: 2		•							
	gry arrivals, at/s	soonarter p	rocessing						
Eastern Cap		\/aka::!	Clii.a						
	p, Humansdor	p veterina	ary Clinic						
Beef: 1									
Queenstown, Queenstown Provincial Vet Lab									
Goat: 1									
Western Cape									
	est, Beaufort \	West State	e Vet						
Sheep: 2									
Adaptaion									
	, Malmesbury	Dierehos	pitaal						
	7: 3, Sheep: 2								
	h, Stellenbosc	h Animal	Hospital						
Goat: 1									
Swellendam	ı, Swellendam	Dierehos	pitaal						
Dairy: 2									
Northern Ca									
	g, Postmasbu	rg Dierekl	iniek						
Sheep: 2									
Disulaced	l abancarın								^
Displaced	l abomasun	П							
PROVINCE	Mpumalanga	Gauteng	Limpopo	North	Free	Kwazulu-	Eastern	Western	Northern
1110121102	paa.aga	Caacong	роро	West	State	Natal	Cape	Cape	Cape
Average		1.0(1)	1.0(1)			1.5 (2)		2.0(1)	
		. /	. /			` ′		` ′	
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
•									
Roof			1 0 (1)						
Beef		1.0 (1)	1.0 (1)			1.7.(2)		0.0 (1)	
Beef Dairy Gauteng		1.0(1)	1.0 (1)			1.5 (2)		2.0 (1)	

Bronkhorsts	Bronkhorstspruit, Kerkstraat Dierekliniek											
Dairy: 1												
Limpopo												
Mokopane, Dr Henk Visser												
Beef: 1												
Kwazulu-Natal												
Dundee, Endumeni Herd health												
Dairy: 2												
Estcourt, Estcourt Vet Clinic												
Dairy: 1												
Western Cape Malmesbury, Malmesbury Dierehospitaal												
Dairy: 2												
Dairy: 2	1y. 4											
Ketosis									^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average					1.8 (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												
Dairy								3.0 (1)				
Sheep	1.8 (4) 2.0 (1)											
Free State												
Hoopstad, F	loopstad Diere	ekliniek										
Sheep: 2												
Reitz, Riem	land Dierehos	pitaal										
Sheep: 2												
	gepoort Dierel	kliniek Ve	nnootskap	)								
Sheep: 2												
	n, Wesselsbro	n Dierekli	niek									
Sheep: 1												
Western Ca												
	erberg Veteri	nary Hosp	itai									
Sheep: 2	, Malmesbury	Dioroboo	nitaal									
Dairy: 3	y, Mailliesbury	Dieleilos	pitaai									
Dally. 5												
Milk Feve	er								^			
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape			
Average	1.0 (1)				1.0 (2)	1.7 (3)		1.8 (4)				
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than	10 cases			

reported

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

**Mpumalanga** 

Lydenburg, Longtom Dierekliniek

Dairy: 1
Free State

Ficksburg, Oosvrystaat Diere Produkte

Dairy: 1

Hoopstad, Hoopstad Dierekliniek

Beef: 1

Kwazulu-Natal

**Bergville, Bergville Veterinary Clinic** 

Beef: 2

**Estcourt, Estcourt Vet Clinic** 

Dairy: 2

**Pietermaritzburg, Veterinary House Hospital** 

Beef: 1

**Western Cape** 

Malmesbury, Invitrotech

Dairy: 2 Two cases

Malmesbury, Malmesbury Dierehospitaal

Dairv: 3

**Riversdale, Riversdal Dierekliniek** 

Dairy: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 1

# **Reproductive diseases**

Dystocia (Difficult Births)										
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	2.1 (10)	2.1 (10)	2.0 (4)	2.4 (7)	2.3 (28)	2.4 (11)	1.5 (10)	1.8 (15)	1.8 (6)	

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

Beef	2.1 (8)	2.3 (6)	2.0 (3)	2.4 (7)	2.5 (17)	2.4 (10)	1.6 (7)	1.6 (5)	2.0 (4)
Dairy			1.5 (2)	2.0 (1)	2.0 (1)	2.0 (8)			
Sheep	2.0 (2)	2.0 (2)	2.0 (1)		2.1 (9)		1.0 (1)	1.5 (2)	
Goat		1.5 (2)					1.0(1)		1.5 (2)

Mpumalanga

**Balfour, Balfour Dierekliniek** 

Beef: 2, Sheep: 2 **Bethal, Bethal Dierekliniek** Beef: 2, Sheep: 2 Grootvlei, Grootvlei Dierekliniek Beef: 3 Lydenburg, Longtom Dierekliniek Beef: 1 Middelburg, Middelburg Dierehospitaal **Nelspruit, Nelspruit Animal Hospital** Beef: 2 Standerton, Econovet Beef: 2 **Volksrust, Cape Cross Volksrust Dierehospitaal** Beef: 3 Gauteng Bapsfontein, Bapsfontein Dierehospitaal Beef: 2, Sheep: 2, Goat: 2 **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2, Sheep: 2 Hammanskraal, Themba Animal Clinic Beef: 3 Magaliesburg, Magaliesburg; Dr Ryan Jeffrey Nigel, Welgelegen Dierekliniek Beef: 2 Cows in poor condition Pretoria, Onderstepoort Academic Hospital and Production Animal Clinic Beef: 2, Goat: 1 Limpopo **Modimolle, Kranskop Dierekliniek** Beef: 2, Sheep: 2 Mokopane, Dr Henk Visser Beef: 2 **Tzaneen, ZZ2 Farm Practice** Beef: 2 **North West Brits, Brits Dierekliniek** Beef: 2 Christiana, Christiana Dierehospitaal Beef: 3 Klerksdorp, Buffeldoorn Dierehospitaal Klerksdorp, Klerksdorp Dierehospitaal Leeudoringstad, Leeudoringstad Dierekliniek Beef: 3 Cows in poor condition Stella, Stella Dierekliniek Beef: 3 Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State Bethlehem, Bethlehem Animal Hospital** 

Beef: 3

**Bloemfontein, Dr Stephan Wessels** Beef: 2 **Bultfontein, Greylingsrust Dierespreekkamer** Beef: 2 Clocolan, Clocolan Dierekliniek Beef: 3, Dairy: 1, Sheep: 2 **Dewetsdorp, Platkop Dierekliniek** Beef: 2, Sheep: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 3, Dairy: 2, Sheep: 2 **Frankfort, Frankfort Dierekliniek** Beef: 3 **Gariepdam, Gariep Dierekliniek** Sheep: 2 Hertzogville, Hertzogville Dierekliniek Beef: 2 Hoopstad, Hoopstad Dierekliniek Beef: 3, Sheep: 3 Kroonstad, Kroonstad Dierehospitaal Beef: 3 **Memel, Memel Veterinary Clinic** Beef: 2 Parys, Parys Dierehospitaal Beef: 2 **Reitz, Riemland Dierehospitaal** Beef: 3, Sheep: 2 Viljoenskroon, Viljoenskroon Dierekliniek Beef: 3, Sheep: 3 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2, Sheep: 2 Vrede, Saulshoek Dierepraktyk Beef: 2 Wesselsbron, Wesselsbron Dierekliniek Beef: 2, Sheep: 1 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 3 **Dundee, Endumeni Herd health** Beef: 3 **Estcourt, Estcourt Vet Clinic** Beef: 2, Dairy: 2 **Kokstad, E.G.Veterinary Services** Beef: 3 **Mtubatuba, Mtubatuba Animal Clinic** Beef: 2 **Newcastle, Ncanduvet Newcastle** Beef: 3 Pietermaritzburg, Veterinary House Hospital End of calving season. BCS in most cases <2.5/5 was a mitigating factor. Pongola, Pongola Animal Clinic Beef: 1

**Underberg, Underberg Veterinary Surgery** 

Highest amount seen for many seasons

Vryheid, Vryheid Privaat Veeartse

Beef: 2

**Eastern Cape** 

Aliwal North, Hertzogbrug Dierekliniek

Beef: 2

Cofimvaba, State Vet Cofimvaba

Beef: 1

**Graaff-Reinet, Camdeboo Veterinary Clinic** 

Beef: 1

**Humansdorp, Humansdorp Veterinary Clinic** 

Beef: 3

Queenstown, Queenstown Veterinary clinic

Beef: 1

Steynsburg, Steynsburg Dierehospitaal

Beef: 2, Dairy: 2

**Uitenhage, Uitenhage Dierehospitaal** 

Beef: 1, Sheep: 1, Goat: 1

**Western Cape** 

**Caledon, Caledon Dierekliniek** 

Dairy: 1

**Caledon, Overberg Veterinary Hospital** 

Beef: 2, Dairy: 2, Sheep: 2

**Ceres, Ceres Veterinary Hospital** 

Beef: 1, Sheep: 1

**Darling, Tygerberg Dierehospitaal Darling** 

Dairv: 1

Heidelberg (WC), Heidelberg Dierekliniek

Dairy: 3

Malmesbury, Dr Otto Kriek

Dairy: 3

Malmesbury, Invitrotech

Dairy: 2 Six cases

Malmesbury, Malmesbury Dierehospitaal

Beef: 2, Dairy: 2

Moorreesburg, Tygerberg mooreesburg

Beef: 1

Stellenbosch, Stellenbosch Animal Hospital

Beef: 2

Swellendam, Swellendam Dierehospitaal

Dairy: 2

**Northern Cape** 

Kathu, Kathu Dierekliniek

Beef: 2

Kuruman, State Vet Kuruman

Beef: 3 Weekly cases

Postmasburg, Postmasburg Dierekliniek

Beef: 2, Goat: 2

Upington, Upington Veeartsenykliniek

Beef: 1, Goat: 1

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (2)	2.0 (2)		2.6 (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 1.0 (1) 3.0 (1)										
Dairy					1.0 (1)	2.0 (2)		2.5 (6)		
Free State										
Bultfontein,	Greylingsrust	Dierespr	eekkamer							
Beef: 1		•								
Clocolan, Cl	ocolan Dierek	liniek								
Dairy: 1										
Kwazulu-Na										
	dumeni Herd l	nealth								
Dairy: 2										
Estcourt, Es	tcourt Vet Clir	nic								
Dairy: 2										
Western Ca										
-	ledon Dierekli	niek								
Dairy: 3										
	erberg Veteri	nary Hosp	ital							
Dairy: 2										
	(WC), Heidelb	erg Dierel	kliniek							
Dairy: 3										
	,, Malmesbury	Dierehos	pitaal							
Dairy: 3	n:									
	Riversdal Dier	екипіек								
Dairy: 1		D:b								
	n, Swellendam	Dierenos	pitaal							
Dairy: 3	Durban Straat	Dieroblis	iok Worse	ctor						
Beef: 3	vui vaii Straat	Dielekiin	iek worce	SLEI						
Metritis									_	
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 (3)	2.0 (3)	1.5 (2)	2.0 (3)	2.0 (8)		
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	

2.0 (3) 2.5 (2)

1.0(1)

1.0(1)

Beef

1.5 (2)

1.0(1)

2.0 (1)

Dairy		1.0 (1)	3.0 (1) 2.0 (7)
Goat			2.0 (1)
Mpumalan	ga		
_	lfour Dierekliniek		
Beef: 1			
Gauteng			
Bronkhors	tspruit, Kerkstraat Dierekliniek		
Beef: 1			
<b>North Wes</b>	t		
Christiana,	Christiana Dierehospitaal		
Beef: 2	<u> </u>		
Leeudoring	ıstad, Leeudoringstad Dierekliniek		
Beef: 3	· · ·		
Lichtenbur	g, Dr CM Kruger-Rall		
Beef: 1	<u> </u>		
Free State			
Bloemfont	ein, Dr Stephan Wessels		
Beef: 3	,		
	Clocolan Dierekliniek		
Dairy: 1			
	mel Veterinary Clinic		
Beef: 2			
Kwazulu-N	atal		
	tzburg, Veterinary House Hospital		
Beef: 1			
	ryheid Privaat Veeartse		
Beef: 2	,		
Eastern Ca	pe		
	net, Graaff Reinet Veterinary Clinic		
Goat: 2	,		
	, Tenax Vet Clinic		
Dairy: 3	-, 1 c		
82 cases			
	Uitenhage Dierehospitaal		
Beef: 1	one mage and one of product		
Western Ca	ane		
	aledon Dierekliniek		
Dairy: 3			
	gerberg Dierehospitaal Darling		
Dairy: 2	J J		
	ry, Dr Otto Kriek		
Dairy: 1			
	ry, Invitrotech		
Dairy: 2	<i>,,</i>		
Seven cases			
	ry, Malmesbury Dierehospitaal		
Beef: 2, Dai			
	, Riversdal Dierekliniek		
Dairy: 1	, san Piereniumen		
	m, Swellendam Dierehospitaal		
Dairy: 2	, C Silonaani Pioi enoopitaai		
-un j 1 2			

**Poor conception** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.0 (1)				1.7 (3)	2.0 (1)		2.0 (5)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases		
Beef	eef 1.0 (1) 1.7 (3) 2.0 (1) 2.0 (2)										
Dairy								2.0 (3)			
Mpumalang	a										
	four Diereklin	iek									
Beef: 1											
Free State											
	ocolan Dierek	liniek									
Beef: 2	loonstad Dis	aklinia!									
Hoopstaa, F Beef: 2	loopstad Diere	ekiiniek									
	Kroonstad Die	rohosnita	 al								
Beef: 1	Ki oolistaa Die	i enospita	aı								
Kwazulu-Na	ntal										
	ergville Veteri	narv Clini	C								
Beef: 2	- <b>J</b>										
Western Ca	ре										
Caledon, Ca	ledon Dierekli	iniek									
Beef: 2, Dairy											
Malmesbury	y, Dr Otto Krie	k									
Dairy: 1											
	y, Malmesbury	Dierehos	pitaal								
Dairy: 3											
	Durban Straat	Diereklin	iek Worce	ster							
Beef: 2											
Retained	afterbirth								^		
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape		
Average	1.3 (3)	1.7 (3)		2.0 (2)	1.5 (6)	2.0 (3)		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 reported											
Beef	1.5 (2)	1.7 (3)		2.0 (2)	1.5 (6)	2.0 (3)			2.0 (1)		
Dairy								2.0 (4)			
_	1.0.(1)							<b>2.0</b> (1)			
Goat	1.0(1)										

Mpumalanga Balfour, Balfour Dierekliniek

Darfi 1 Carl	. 4								
Beef: 1, Goat		- 1 11 · · · · ·							
-	lelspruit Anim	ai Hospita	1						
Beef: 2									
Gauteng									
•	, Bapsfontein	Dierehosi	oitaal						
Beef: 2									
	spruit, Kerkstr	aat Dierel	kliniek						
Beef: 2			_						
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 1									
North West									
	stad, Leeudori	ngstad Di	erekliniek						
Beef: 3	· · · ·								
	, Dr CM Kruge	r-Rall							
Beef: 1									
Free State									
	in, Dr Stephan	Wessels							
Beef: 2	<b>.</b> "								
•	Greylingsrust	Dierespr	eekkamer						
Beef: 1		D' 1.1''							
	e, Hertzogville	Dierekiin	ек						
Beef: 2	Is a water d Diam	.   .   ! .   .							
Beef: 1	loopstad Diere	ekiiniek							
	Vroonstad Dis	roboonito							
Beef: 2	Kroonstad Die	renospita	aı						
	shook Diarans	a leta ele							
Beef: 1	shoek Dierepr	акцук							
Kwazulu-Na	.tal								
	ıtaı ergville Veteri	namı Clini	•						
Beef: 2	ergville veteri	iiai y Ciiiii	<u> </u>						
	zburg, Veterin	any House	Hospital						
Beef: 2	zburg, veteriii	ary mouse	Hospitai						
	/heid Privaat \	looartco							
Beef: 2	yileiu Pilvaat V	recai tse							
Western Ca	na								
	ledon Dierekli	niek							
Dairy: 1	iledoli Dielekii	IIICK							
•	jerberg Diereh	ocnitaal [	)arling						
Dairy: 2	jerberg Dierer	iospitaai L	Zai iiiig						
	, Dr Otto Krie	b							
Dairy: 2	, Di Otto Kile	N.							
	, Malmesbury	Dierehos	nitaal						
Dairy: 3	y, Mannesbury	Dicicios	pitaai						
Northern Ca	ne								
	uruman Diere	kliniek							
Beef: 2	a. a.iiaii bici c								
DCCIT Z									
Sheath P	rolaps								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape

r					ı				
Average	1.5 (2)			1.5 (2)	1.0 (2)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than :	10 cases
Beef	1.5 (2)			1.5 (2)	1.0 (2)	2.0 (1)			
Mpumalang					(-)				
	Longtom Dier	ekliniek							
Beef: 1									
Penile sheath		al Uaanita	.1						
Neispruit, N Beef: 2	elspruit Anim	аі поѕріса	<u>II</u>						
North West									
Brits, Brits [	Dierekliniek								
Beef: 1									
	yburg Diereho	spitaal							
Beef: 2									
Free State	\	ava Duadi	.1.4.4						
Ficksburg, C Beef: 1	Oosvrystaat Di	ere Proat	ikte						
	loopstad Dier	ekliniek							
Beef: 1	oopstaa 2101								
Kwazulu-Na	tal								
	ergville Veteri	nary Clini	С						
Beef: 2									
Uterus pr	olaps								_
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.7 (3)	1.3 (3)	1.5 (2)	2.0 (3)	2.0 (15)	1.8 (4)	1.0 (1)	1.3 (4)	2.0 (2)
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than 1	10 cases
		2.0 (1)	1.5 (2)	2.0 (2)	2.2	1.8 (4)			20(2)
Beef	1.7 (3)	2.0 (1)	1.3 (2)	2.0 (2)	(10)	1.0 (1)			2.0 (2)
Beef Dairy	1.7 (3)	2.0 (1)	1.3 (2)	2.0 (1)	1.0	1.0 (1)	1.0 (1)	1.3 (3)	2.0 (2)

**Bethal, Bethal Dierekliniek** Beef: 2

Grootvlei, Grootvlei Dierekliniek

**Volksrust, Cape Cross Volksrust Dierehospitaal** 

Beef: 2 Gauteng **Bapsfontein, Bapsfontein Dierehospitaal** Sheep: 1 **Bronkhorstspruit, Kerkstraat Dierekliniek** Beef: 2, Sheep: 1 Limpopo Mokopane, Dr Henk Visser Beef: 1 **Tzaneen, ZZ2 Farm Practice** Beef: 2 **North West Brits, Brits Dierekliniek** Beef: 2 Rustenburg, Bergbos Dierekliniek Vryburg, Vryburg Dierehospitaal Beef: 2 **Free State Bultfontein, Greylingsrust Dierespreekkamer** Clocolan, Clocolan Dierekliniek Beef: 2 Ficksburg, Oosvrystaat Diere Produkte Beef: 2, Dairy: 1, Sheep: 1 Frankfort, Frankfort Dierekliniek Beef: 3 Hertzogville, Hertzogville Dierekliniek Beef: 2 **Hoopstad, Hoopstad Dierekliniek** Beef: 3, Sheep: 3 Ladybrand, Ladybrand Dierekliniek Beef: 2 **Memel, Memel Veterinary Clinic** Beef: 2 **Reitz, Riemland Dierehospitaal** Beef: 2, Sheep: 2 Villiers, Wilgepoort Dierekliniek Vennootskap Beef: 2 Vrede, Saulshoek Dierepraktyk Beef: 2 Kwazulu-Natal **Bergville, Bergville Veterinary Clinic** Beef: 2 **Dundee, Endumeni Herd health** Beef: 2 **Kokstad, E.G.Veterinary Services** Beef: 2 Pietermaritzburg, Veterinary House Hospital Beef: 1 **Eastern Cape Graaff-Reinet, Camdeboo Veterinary Clinic** Dairy: 1 **Western Cape** Caledon, Overberg Veterinary Hospital Dairy: 1, Sheep: 1

Heidelberg (WC), Heidelberg Dierekliniek

Daim // 2									
Dairy: 2	D'								
	Riversdal Dier	екипіек							
Dairy: 1									
Northern Ca		lelimin le							
	Kuruman Diere	кипіек							
Beef: 2	um Daatusaaks	ua Dianald	limials						
Beef: 2	rg, Postmasbu	rg Dierek	шек						
beer. 2									
Vaginal (	Cervical) pr	olaps							^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	1.5 (4)	1.4 (7)	1.0 (1)	2.5 (2)	2.1 (14)	1.7 (6)	1.5 (2)	1.0 (2)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef	1.7 (3)	1.7 (3)	1.0 (1)	2.5 (2)	2.2 (10)	1.8 (5)	1.5 (2)		
Dairy						1.0(1)			
Sheep	1.0 (1)	1.3 (3)			1.8 (4)			1.0 (2)	
Goat		1.0(1)							
Mpumalang	ıa								
	hal Diereklinie	k							
Sheep: 1									
	Grootvlei Diere	kliniek							
Beef: 2									
Nelspruit, N	lelspruit Anim	al Hospita	ı						
Beef: 1									
Volksrust, C	Cape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Gauteng									
	n, Bapsfontein	Dierehos	pitaal						
Beef: 2, Shee									
	spruit, Kerkstr	aat Diere	kliniek						
Beef: 2, Shee									
	raal, Themba <i>l</i>	animai Cli	nic						
Beef: 1	edouato-se-t-	andowie !	Uoonital -	nd Dund	uation '	Animal Cli!			
	nderstepoort A	cademic	nospitai a	na Proa	uction /	Animai Ciini	C		
Sheep: 1, Go	at. I								
Limpopo	Dr Henk Visse	r							
Beef: 1	DI HELIK VISSE	1							
North West									
	stad, Leeudori	nastad Di	erekliniek						
Reef: 3	Juan Lecudori	gs.cau Di	C. C.K.IIIICK						

After calving - energy and protein deficiency

Vryburg, Vryburg Dierehospitaal

Beef: 2

reekkamer						
CERRAIIICI						
.1.4.						
ukte						
iek						
_						
aal						
<b>K</b>						
nnootskap	)					
ic						
ic						
e Hospital						
niek						
oital						
						^
Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
			1.0 (2)			
		West	West State			

						the state of the s			
Sheep						1.0 (1)			
Goat						1.0 (1)			
Kwazulu-Na		Cli! -							
Sheep: 1, Go	ongola Animal at: 1	Clinic							
Drought									4
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average							2.0 (1)		2.3 (4)
Level of imported	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef							2.0 (1)		2.5 (2)
Sheep									2.0 (1)
Goat									2.0 (1)
Beef: 2 Northern Ca			niek						
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbui	h, Hertzogbrug ape state Vet Kurur easing - farmers rg, Postmasbu ep: 2, Goat: 2	<b>nan</b> getting vei	ry worried						
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbur Beef: 2, Shee Heat stre	h, Hertzogbrug ape state Vet Kurur easing - farmers rg, Postmasbu ep: 2, Goat: 2	nan getting ver rg Dierekl	ry worried liniek	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbur Beef: 2, Shee Heat stre	h, Hertzogbrug ape state Vet Kurur easing - farmers rg, Postmasbu ep: 2, Goat: 2	nan getting ver rg Dierekl	ry worried liniek						
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbur Beef: 2, Shee Heat stre  PROVINCE  Average  Level of impe	h, Hertzogbrug ape state Vet Kurur easing - farmers rg, Postmasbu ep: 2, Goat: 2	man getting ver rg Dierekl	ry worried liniek Limpopo	West	3.0 (2)	Natal	Cape	<b>Cape</b> 2.3 (3)	Cape
Reef: 2 Northern Ca Kuruman, S Reef: 3 Drought incre Postmasbur Reef: 2, Shee Heat stre PROVINCE Average Level of impore	h, Hertzogbrug  ape state Vet Kurur  easing - farmers rg, Postmasbu  ep: 2, Goat: 2  ess  Mpumalanga	man getting ver rg Dierekl	ry worried liniek Limpopo	West	3.0 (2)	Natal	Cape	<b>Cape</b> 2.3 (3)	Cape
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbur Beef: 2, Shee Heat stre PROVINCE  Average  Level of imporeported  Beef	h, Hertzogbrug  ape state Vet Kurur  easing - farmers rg, Postmasbu  ep: 2, Goat: 2  ess  Mpumalanga	man getting ver rg Dierekl	ry worried liniek Limpopo	West	3.0 (2) e case b	Natal	Cape	Cape  2.3 (3)  more than	Cape
Beef: 2 Northern Ca Kuruman, S Beef: 3 Drought incre Postmasbur Beef: 2, Shee Heat stre PROVINCE	h, Hertzogbrug  ape state Vet Kurur  easing - farmers rg, Postmasbu  ep: 2, Goat: 2  ess  Mpumalanga	man getting ver rg Dierekl	ry worried liniek Limpopo	West	3.0 (2) e case b	Natal	Cape	2.3 (3) more than 2.0 (1)	Cape

Malmesbury, Malmesbury Dierehospitaal Beef: 2, Dairy: 3, Sheep: 2										
Lightning									^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average	1.0 (2)				2.0 (2)	1.0 (2)				
Level of importance scale: 1 = one case, 2 = more than one case but less than ten and 3 = more than 1 reported										
Beef	1.0 (2)				2.0 (2)	1.0 (2)				
Mpumalang	ja Ifour Diereklin	iok								
Beef: 1	iloui Dielekiili	ICK								
Middelburg Beef: 1	, Middelburg l	Dierehosp	itaal							
Free State										
	rankfort Diere	ekliniek								
Beef: 2										
	shoek Dierepr	aktyk								
Beef: 2										
Kwazulu-Na		141.								
Beef: 1	dumeni Herd l	neaith								
	Neanduret Ne	wesetle								
Beef: 1	Ncanduvet Ne	wcastie								
Frozen to	death								^	
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape	
Average					1.0 (1)					
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases	
Sheep					1.0 (1)					
Free State										
	land Dierehos	pıtaal								
Sheep: 1	102	- Cha I	da a se le	الله بيمام	!-!					
A farm where	e 103 ewes died	arter shear	rıng, raın ar	na suddei	n cold					
Non spe	cific diseas	ses								
Preditors									^	

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average		1.7 (3)			2.5 (4)	3.0 (1)	1.0 (1)	1.0(1)	
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than	10 cases
Beef		1.0 (1)			2.0 (2)			1.0 (1)	
Sheep		2.0 (1)			3.0 (2)	3.0 (1)	1.0 (1)		
Goat		2.0(1)							
Gauteng									
	, Bapsfontein	Dierehosi	oitaal						
Beef: 1, Shee		2. 2.100							
	aal, Themba A	Animal Cli	nic						
Goat: 2	•								
Free State									
Clocolan, Cl	ocolan Dierek	liniek							
Beef: 2, Shee									
	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee									
Kwazulu-Na	•								
Kokstad, E.C	G.Veterinary S	ervices							
Sheep: 3	•								
Eastern Cap	е								
Cofimvaba,	State Vet Cofi	mvaba							
Sheep: 1									
Dogs killed 16	sheep in one f	lock in one	night.						
Western Ca	ре								
	h, Stellenbosc	h Animal	Hospital						
Beef: 1									
Sabotatio	n - Theft								^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average					2.9 (9)	2.0 (1)			
Level of impore	ortance scale: 1	= one case	e, 2 = more	than one	e case b	ut less than t	en and 3 =	more than	10 cases
Beef					3.0 (4)	2.0 (1)			
Dairy					2.0 (1)				
Sheep					3.0 (4)				

Free State									
	ocolan Dierek	liniek							
	y: 2, Sheep: 3								
	Dosvrystaat Di	ere Produ	ıkte						
Beef: 3, Shee									
	rankfort Diere	ekliniek							
Beef: 3, Shee									
	gepoort Dierel	kliniek Ve	nnootskap	)					
Beef: 3, Shee									
Kwazulu-Na									
	ergville Veteri	nary Clini	С						
Beef: 2									
Trauma									^
PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Avonago		1.0 (4)	1.0 (1)		3.0		1.0 (1)	2.0.(2)	
Average		1.8 (4)	1.0 (1)		(1)		1.0 (1)	2.0 (2)	
Level of impo	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than t	en and 3 =	more than 1	10 cases
reported			1						
Beef		1.5 (2)	1.0(1)		3.0 (1)		1.0 (1)		
Dairy		1.0 (1)						2.0 (2)	
Goat		3.0 (1)							
Gauteng									
	raal, Themba <i>l</i>	Animal Cli	nic						
Beef: 2, Dairy									
	nderstepoort A	cademic	Hospital a	nd Prod	uction A	Animal Clinic	C		
Beef: 1									
Rumenotomy	,								
Limpopo									
	rtemis Veterir	nary Servi	ces						
Beef: 1									
Cow died, fel	I on rocks								
Free State									
	rankfort Diere	kliniek							
Beef: 3									
Eastern Cap			<b>611 1</b>						
	p, Humansdor	p veterin	ary Clinic						
Beef: 1									
Western Ca	-								
	y, Dr Otto Krie	K							
Dairy: 2									
	y, Invitrotech								
Dairy: 2									
Three cases,	cows slipped on	cement							

**Veld fires** 

PROVINCE	Mpumalanga	Gauteng	Limpopo	North West	Free State	Kwazulu- Natal	Eastern Cape	Western Cape	Northern Cape
Average	2.0 (1)				2.0 (2)				
Level of impore	ortance scale: 1	= one case	e, 2 = more	than on	e case b	ut less than to	en and 3 =	more than 1	10 cases
Beef	2.0 (1)				2.0 (1)				
Sheep					2.0 (1)				
Mpumalang	а								
Volksrust, C	ape Cross Vol	ksrust Die	erehospita	al					
Beef: 2									
Free State									
Villiers, Wilg	gepoort Dierel	kliniek Ve	nnootskap						
Beef: 2, Shee	p: 2								